

IOCL PARADIP 525 TPD STANDBY SRU
Pre-Qualification Criteria (Technical)

Item : SAMPLING BOMB
PR No : 1900145397

Only manufacturers of SAMPLING SYSTEMS (documentary evidence to be provided), qualified as per the Pre-qualification criteria laid down below, **are allowed to bid**. Authorised Dealers, Agents, Stockists and Traders are not allowed to bid.

The bid evaluation shall be on Overall L1 basis. Bidder has to quote for all the items. Partial offers will not be considered for evaluation.

Qualification Criteria of the Bidder:

The Bidders shall meet the Pre-Qualification Criteria (listed below). *Non-compliance to any of the criteria listed below will lead to disqualification of bidder for the subject tender.*


- 1.** The bidder should be an established Manufacturer of **SAMPLING SYSTEMS**.
- 2.** The Bidder should have successfully completed supply of SAMPLING SYSTEMS (with and without sample coolers) of cumulative quantity not less than 15 no's through a single Purchase Order or multiple Purchase Orders in the last 5 years ending on original due date of this tender, with at least one order executed after 01.01.2019.
- 3.** Detailed BOQ of the **SAMPLING SYSTEMS** supplied, satisfying the criteria laid down above, shall be provided in the format enclosed as Annexure-1, with details like Project & Customer, Description, Quantity & Weight of Items supplied, PO details etc. as a minimum for assessing pre-qualification. **PO Copies, Inspection Reports and Dispatch documents shall be enclosed for the references provided.**
- 4.** The bidder should not have been under suspension for business or blacklisted by any of the BHEL units or in the Blocked list of IOCL.
- 5.** Consideration of the Bidder offer is subjected to end customer's approval.


Annexure-1

Supply References for the Last 5 Years ending on the Original due date of this tender

Details of supplies made by the Bidder:

[illegible]

	Form No:	 PE&SD	BHARAT HEAVY ELECTRICALS LIMITED PROJECT ENGINEERING & SYSTEMS DIVISION		PEMC-07606	
			PURCHASE SPECIFICATION		Rev. No. 01	
			IOCL PARADIP 525 TPD STANDBY SRU SAMPLING BOMB PACKAGE		Page 1 of 2	
<p style="text-align: center;">COPYRIGHT AND CONFIDENTIAL</p> <p>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company.</p>		<div style="text-align: center;"> <p>SAMPLING BOMB PACKAGE</p> <p>for</p> <p>525 TPD Standby Sulphur Recovery Unit (SRU),</p> <p>IOCL Paradip Refinery</p> </div>				
Refer Doc		PROJECT ENGINEERING & SYSTEMS DIVISION	PREPARED	CHECKED	APPROVED	DATE
			SHANKAR	V.Uday Kumar	Srikanth G	25.04.22

Form No:	 PE&SD	BHARAT HEAVY ELECTRICALS LIMITED PROJECT ENGINEERING & SYSTEMS DIVISION	PEMC-07606
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1.0 SCOPE OF SUPPLY

- 1.1 This document indicates the requirements to be considered for supply of SAMPLING BOMB, for IOCL Paradip 525 TPD Standby SRU Project.
- 1.2 The supplies shall meet the requirements of the following specifications, without any deviation.
 - Bill of Material and Technical Data sheet, Annexure-1
 - Specification for Painting and Coating: 080557C-000-JSD-2300-001_C
 - Specification for Color Coding of Piping Materials: 080557C-000-SP-1390-009_A
 - Specification for positive material Identification at Vendor's works - 080557C-000- JSS-6300-0002 _A.
 - Inspection and test plan for piping Bulk items and specialties- 080557C-000-ITP-1300-001
 - 080557C-000-JSS-1340-001_A Fittings Small Bore
- 1.3 The documentation, quality and inspection requirements shall be as per the Contract specifications.


2.0 NOTES:

- 2.1 It is to be noted that UNLOADING STATIONS are not in Bidder's scope.
- 2.2 Bidder should follow attached Customer vendor list.
- 2.3 Bidder shall obtain necessary clarifications (if any) from BHEL, before bid submission. This is a no deviation tender and no deviation or price implication is acceptable after bid submission.
- 2.4 Bidder shall submit the following along with their bid:
 - No Technical Deviation Certificate.
 - Unpriced price bid format.

+ + +

RECORD OF REVISIONS:

Rev No	Date	Revision Detail	Revised by	Approved by
00	04.03.2022	FIRST ISSUE	V Uday Kumar	Srikanth G
01	25.04.2022	INCLUDED ADDITIONAL SPEC	V Uday Kumar	Srikanth G

<div><div><div>इंजीनियर्स इंडिया लिमिटेड</div><div></div><div>ENGINEERS INDIA LIMITED</div><div>(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)</div></div></div>							PROJECT :		525 TPD STANDBY SRU PROJECT												ANNEXURE-1 TO PEMC-07606						
							JOB NO. :		B366																		
							CLIENT :		IOCL PARADIP				0	29-12-2021		ISSUED FOR BIDS				AM	AM		LSJ				
													REV.	DATE		PURPOSE				BY	CHK		APPROVED				
DATA SHEET FOR SAMPLING SYSTEM																											
SR. No.	UNIT	ITEM CODE	TYPE	PIPING CLASS	CLASS RATING	LOCATION	TAG NO.	QTY (Nos)	SERVICE	FLUID PHASE	SPECIAL SERVICE REQMNT.	SAMPLE COOLER REQMNT.	SAMPLE INLET/ OUTLET	MATERIAL SPECIFICATION OF SAMPLE COOLER					MOC OF SAMPLE CYLINDER, VALVES & FITTINGS	CAPACITY OF SAMPLE CYLINDER	END CONNECTION OF SAMPLING SYSTEM	MATERIAL HOSE	OPERATING		DESIGN		REMARKS
														COIL DIA (INCHES)	COIL MATERIAL	THK./ SCH. OF COIL	END CONNECTI ON	FITTINGS/ COUPLINGS					TEMP. DegC	PRESS. KG/CM2G	TEMP. DegC	PRESS. KG/CM2G	
1	088		SC-1 (BV)	A28A	150	600-P-088-1402-A28A-IT	088-SC-0101	1	PROCESS	VAPOUR	NACE + HIC + PWHT	NO	0.75	NA	NA	NA	NA	NA	SS316	1000 ML	150#. B16.5, RF/125AARH	NOTE-2	48	0.8	343	3.8	REFER SKETCH, B366-088-16-43-SK-=9021
2	088		SC-4 (BV)	B49A	300	80-WP-088-1404-B49A-NI	088-SC-0102	1	PROCESS WATER	LIQUID	NACE + HIC + PWHT	YES	0.75	0.75	ASTM A106 GR.B	XXS	300#. B16.5, RF/125AARH	ASTM A105N, SW, 9000#	SS316	1000 ML	300#. B16.5, RF/125AARH	NOTE-2	48	8	175	15	REFER SKETCH, B366-088-16-43-SK-=9022 / 9023
3	088		SC-1 (BV)	A28A	150	250-P-088-1502-A28A-IT	088-SC-0301	1	PROCESS	VAPOUR	NACE + HIC + PWHT	NO	0.75	NA	NA	NA	NA	NA	SS316	1000 ML	150#. B16.5, RF/125AARH	NOTE-2	90	0.8	343	3.8	REFER SKETCH, B366-088-16-43-SK-=9021
4	088		SC-4 (BV)	B49A	300	80-WP-088-1504-B49A-NI	088-SC-0302	1	PROCESS WATER	LIQUID	NACE + HIC + PWHT	YES	0.75	0.75	ASTM A106 GR.B	XXS	300#. B16.5, RF/125AARH	ASTM A105N, SW, 9000#	SS316	1000 ML	300#. B16.5, RF/125AARH	NOTE-2	90	8	175	15	REFER SKETCH, B366-088-16-43-SK-=9022 / 9023
5	088		SC-2 (BV)	D31A	600	250-BD-088-2502-D31A-PP	088-SC-1001	1	BLOWDOWN	LIQUID + VAPOUR	IBR/ FV	YES	0.75	0.75	ASTM A106 GR.B	S160	600#. B16.5, RF/125AARH	ASTM A105N, SW, 6000#	SAMPLE CYLINER NOT REQUIRED. ONLY SAMPLE COOLER REQUIRED.			256	43.1	280	46	REFER SKETCH, B366-088-16-43-SK-=9023	
6	088		SC-2 (BV)	D31A	600	150-BD-088-2602-D31A-PP	088-SC-1002	1	BLOWDOWN	LIQUID + VAPOUR	IBR/ FV	YES	0.75	0.75	ASTM A106 GR.B	S160	600#. B16.5, RF/125AARH	ASTM A105N, SW, 6000#	SAMPLE CYLINER NOT REQUIRED. ONLY SAMPLE COOLER REQUIRED.			256	43.1	280	46	REFER SKETCH, B366-088-16-43-SK-=9023	
7	088		SC-1 (BV)	A12A	150#	900-P-088-2507-A12A-IH	088-SC-1201	1	PROCESS	VAPOUR		NO	0.75	NA	NA	NA	NA	NA	SS316	1000 ML	150#. B16.5, RF/125AARH	NOTE-2	316	0.6	343	3.8	REFER SKETCH, B366-088-16-43-SK-=9021
8	088		SC-2 (BV)	A31A	150	80-BD-088-2705-A31A-PP	088-SC-1202	1	BLOWDOWN	LIQUID + VAPOUR	IBR/ FV	YES	0.75	0.75	ASTM A106 GR.B	S160	150#. B16.5, RF/125AARH	ASTM A105N, SW, 6000#	SAMPLE CYLINER NOT REQUIRED. ONLY SAMPLE COOLER REQUIRED.			126	1.4	240	7	REFER SKETCH, B366-088-16-43-SK-=9023	
9	088		SC-2 (BV)	A31A	150	80-BD-088-2732-A31A-PP	088-SC-1203	1	BLOWDOWN	LIQUID + VAPOUR	IBR/ FV	YES	0.75	0.75	ASTM A106 GR.B	S160	150#. B16.5, RF/125AARH	ASTM A105N, SW, 6000#	SAMPLE CYLINER NOT REQUIRED. ONLY SAMPLE COOLER REQUIRED.			126	1.4	240	7	REFER SKETCH, B366-088-16-43-SK-=9023	
10	088		SC-1 (BV)	A12A	150	900-P-088-2701-A12A-IH	088-SC-1204	1	PROCESS	VAPOUR		NO	0.75	NA	NA	NA	NA	NA	SS316	1000 ML	150#. B16.5, RF/125AARH	NOTE-2	177	0.54	280	3.8	REFER SKETCH, B366-088-16-43-SK-=9021
11	088		SC-1 (BV)	A12A	150	900-P-088-2702-A12A-IH	088-SC-1205	1	PROCESS	VAPOUR		NO	0.75	NA	NA	NA	NA	NA	SS316	1000 ML	150#. B16.5, RF/125AARH	NOTE-2	237	0.51	280	3.8	REFER SKETCH, B366-088-16-43-SK-=9021
12	088		SC-1 (BV)	A95A	150	900-P-088-2703-A95A-IH	088-SC-1301	1	PROCESS	VAPOUR		NO	0.75	NA	NA	NA	NA	NA	SS316	1000 ML	150#. B16.5, RF/125AARH	NOTE-2	293	0.5	343	3.8	REFER SKETCH, B366-088-16-43-SK-=9021
13	088		SC-2 (BV)	A31A	150	80-BD-088-2805-A31A-PP	088-SC-1401	1	BLOWDOWN	LIQUID + VAPOUR	IBR/ FV	YES	0.75	0.75	ASTM A106 GR.B	S160	150#. B16.5, RF/125AARH	ASTM A105N, SW, 6000#	SAMPLE CYLINER NOT REQUIRED. ONLY SAMPLE COOLER REQUIRED.			126	1.4	280	7	REFER SKETCH, B366-088-16-43-SK-=9023	
14	088		SC-2 (BV)	A31A	150	80-BD-088-2831-A31A-PP	088-SC-1402	1	BLOWDOWN	LIQUID + VAPOUR	IBR/ FV	YES	0.75	0.75	ASTM A106 GR.B	S160	150#. B16.5, RF/125AARH	ASTM A105N, SW, 6000#	SAMPLE CYLINER NOT REQUIRED. ONLY SAMPLE COOLER REQUIRED.			126	1.4	280	7	REFER SKETCH, B366-088-16-43-SK-=9023	
15	088		SC-1 (BV)	A12A	150	900-P-088-2801-A12A-IH	088-SC-1403	1	PROCESS	VAPOUR		NO	0.75	NA	NA	NA	NA	NA	SS316	1000 ML	150#. B16.5, RF/125AARH	NOTE-2	171	0.4	205	3.8	REFER SKETCH, B366-088-16-43-SK-=9021
16	088		SC-1 (BV)	A12A	150	900-P-088-2802-A12A-IH	088-SC-1404	1	PROCESS	VAPOUR		NO	0.75	NA	NA	NA	NA	NA	SS316	1000 ML	150#. B16.5, RF/125AARH	NOTE-2	209	0.4	280	3.8	REFER SKETCH, B366-088-16-43-SK-=9021
17	088		SC-1 (BV)	A12A	150	900-P-088-2803-A12A-IH	088-SC-1501	1	PROCESS	VAPOUR		NO	0.75	NA	NA	NA	NA	NA	SS316	1000 ML	150#. B16.5, RF/125AARH	NOTE-2	237	0.35	343	3.8	REFER SKETCH, B366-088-16-43-SK-=9021
18	088		SC-1 (BV)	A12A	150	900-P-088-2902-A12A-CT	088-SC-1601	1	PROCESS	VAPOUR		NO	0.75	NA	NA	NA	NA	NA	SS316	1000 ML	150#. B16.5, RF/125AARH	NOTE-2	138	0.3	175	3.8	REFER SKETCH, B366-088-16-43-SK-=9021
19	088		SC-3	D31A	600	150-WB-212-8024-D31A-IH	088-SC-9201	1	BOILER FEED WATER	LIQUID	IBR/ FV	YES	0.75	0.75	ASTM A106 GR.B	S160	600#. B16.5, RF/125AARH	ASTM A105N, SW, 6000#	SAMPLE CYLINER NOT REQUIRED. ONLY SAMPLE COOLER REQUIRED.			105	58	150	82	REFER SKETCH, B366-088-16-43-SK-=9023	
20	VOID																										
21																											
22	090		SC-3	D31A	600	150-WB-090-4303-D31A-IH	090-SC-9201	1	BOILER FEED WATER	LIQUID	IBR/ FV	YES	0.75	0.75	ASTM A106 GR.B	S160	600#. B16.5, RF/125AARH	ASTM A105N, SW, 6000#	SAMPLE CYLINER NOT REQUIRED. ONLY SAMPLE COOLER REQUIRED.			105	58	150	82	REFER SKETCH, B366-088-16-43-SK-=9023	

NOTES :

1. EACH STATION SHALL HAVE A FLEXIBLE HOSE CONNECTION FOR SAMPLE CYLINDER OUTLET AND FIXED CONNECTION FOR SAMPLE CYLINDER INLET. QUICK DISCONNECT CONNECTIONS SHALL BE USED AND SHALL BE CAPABLE OF SELF SEALING WITH THE ABILITY TO WITHSTAND 10.5 KG/CM2 INTERNAL PRESSURE WHEN DISCONNECTED FROM CYLINDER.
2. MATERIAL OF HOSE SHALL BE CLOSE PITCH BUTT WELDED ANNULAR CORRUGATION, HEAVY WALL SS316 TUBE (NO INTERLOCKING), WITH DOUBLE SS316 BRAIDING.
3. REFER JOB SKETCH B366-000-16-43-SK-9021 / 9022 / 9023 FOR SC-1(BV), SC-4(BV) AND SAMPLE COOLER RESPECTIVELY.
4. FOR CARBON STEEL AND STAINLESS STEEL, MINIMUM PIPE THICKNESS SHALL BE S160 AND 80S RESPECTIVELY.

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	JOB NO. :	B366							
	CLIENT :	IOCL PARADIP	0	29-12-2021	ISSUED FOR BIDS	AM	AM		LSJ
			REV.	DATE	PURPOSE	BY	CHK		APPROVED
	DATA SHEET FOR SAMPLING SYSTEM								

- 4
- CHEMICAL COMPOSITION, PHYSICAL PROPERTIES, TESTS, DIMENSIONS AND TOLERANCES, HEAT TREATMENT AND MARKING SHALL CONFORM TO THE APPLICABLE LATEST CODES / STANDARDS / SPECIFICATIONS
- 5
- THE SAMPLING CYLINDERS AND THEIR CORRESPONDING HANDLING STATION CAN TAKE SAMPLES OF A DESIGNATED PROCESS STREAM BY ALLOWING A SLIPSTREAM OF PROCESS FLUID TO PASS THROUGH THE SAMPLE CYLINDER WHILE THE PLANT IS ON STREAM WITHOUT EXPOSING THE OPERATOR OR ENVIRONMENT TO THE CONTENTS OF THE PROCESS STREAM.
- 6
- THE METALLURGY OF ALL FLUID HANDLING ITEMS SHALL BE AUSTENITIC STAINLESS STEEL SS316, UNLESS OTHERWISE SPECIFIED IN DATASHEET.
- 7
- VENDOR SHALL GUARANTEE SELECTION OF MATERIAL FOR ALL PARTS OF THE ITEM FOR THE SERVICE AND SERVICE CONDITIONS MENTIONED.
- 8
- THE OERATING & DESIGN CONDITION MENTIONED ARE OF SAMPLE CYLINDER INLET LINE. SAMPLE CYLINDER SHALL WORK FOR A PRESSURE DIFFERENCE OF 0.1 KG/CM2G (AS A MINIMUM) ACROSS INLET/OUTLET OF SAMPLE CYLINDER.
- 10
- THE PRESSURE RATING FOR CLOSED SAMPLING SYSTEM SHALL BE AS PER CLASS RATING (MINIMUM).
- 11
- SAMPLE CYLINDER UNLOADING STATIONS SHALL ALLOW DIRECT DISPENSING OF SAMPLE FROM SAMPLE CYLINDER TO A LABORATORY APPARATUS.
- 12
- CLOSED SAMPLING SYSTEM SHALL BE PANEL MOUNTED WITH RAIN HOOD. THE SYSTEM SHALL SECURELY HOLD THE SAMPLE CYLINDER DURING SAMPLING.
- 13
- DESIGN, FABRICATION AND INSPECTION OF THE UNIT SHALL BE AS PER THE SPECIFICATIONS AND THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS AS APPLICABLE:

A)

ASME B-31.3

PROCESS PIPING, ASME CODE FOR PRESSURE PIPING

B)

ASME SEC VIII Div.2

BOILER AND PRESSURE VESSEL CODE.

C)

ASME SEC IX

WELDING AND BRAZING QUALIFICATION.
- 14
- MATERIAL SHALL BE TESTED AS PER RELEVANT ASTM STANDARDS FOR CHEMICAL AND PHYSICAL PROPERTIES INCLUDING DESTRUCTIVE AND NON-DESTRUCTIVE TESTS, INCLUDING ANY TEST MENTIONED IN THE DATA SHEETS.
- 15
- ALL WELDING WORK, EDGE PREPARATION, WELDING, FINISHING AND HEAT TREATMENT FOR STRESS RELIEVING ARE TO BE DONE AS PER ASME CODE SEC VIII DIV. 2 AND SEC. IX. WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS WITH ASME CERTIFICATION.
- 16
- ALL SW / SCRWD END CONNECTIONS / FITTINGS SHALL BE AS PER ASME B16.11/B1.20.1. ALL BW END CONNECTIONS SHALL BE AS PER ASME B16.25.
- 17
- ALL BW JOINTS SHALL BE 100% RADIOGRAPHED AND FILLET WELDS SHALL BE 100% DP/ MP CHECKED.
- 18
- ALL CASTINGS SHALL UNDERGO 100% RADIOGRAPHIC EXAMINATION. FOR VALVES, RADIOGRAPHY PROCEDURE, AREAS OF CASTING TO BE RADIOGRAPHED SHALL BE AS PER ASME B16.34 AND ACCEPTANCE CRITERIA SHALL BE AS PER ASME B16.34 ANNEXURE-B.
- 19
- ALL FLANGED CONNECTIONS SHALL BE AS PER ASME B16.5 HAVING RAISED FACE WITH 125 AARH FINISHING.
- 20
- BIDDER SHALL FURNISH INSTRUCTION MANUAL/ CATALOGUE ALONG WITH THE OFFER.
- 21
- STAINLESS STEEL ITEMS

A)

ALL AUSTENITIC STAINLESS STEEL ITEMS SHALL BE SUPPLIED IN SOLUTION ANNEALED CONDITION.

B)

AFTER ANY WELD REPAIR, SOLUTION ANNEALING FOR STAINLESS STEEL ITEMS SHALL BE CARRIED OUT AGAIN.

C)

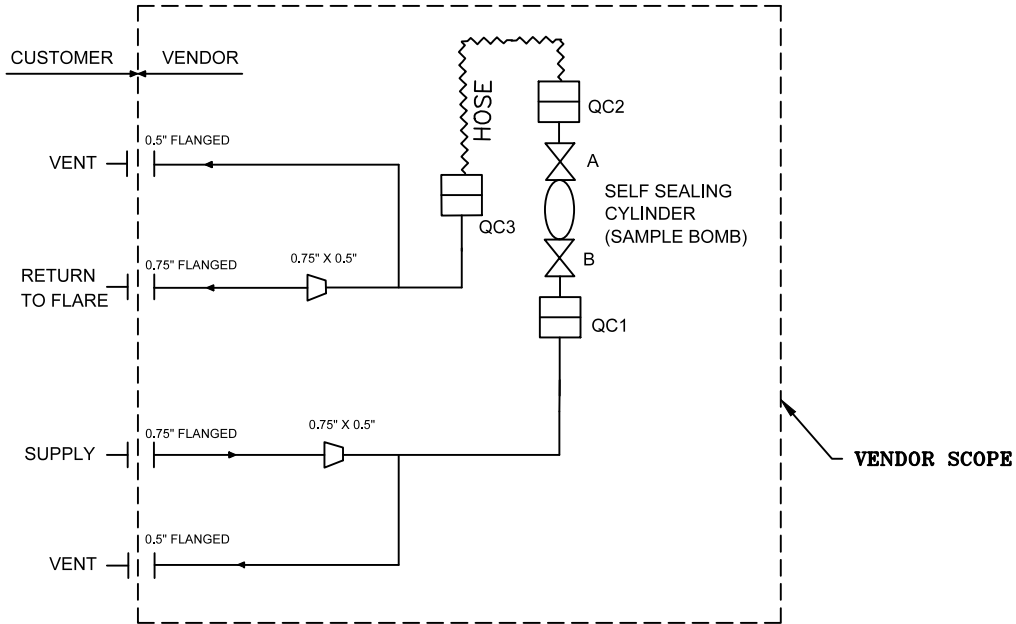
FOR ALL AUSTENITIC STAINLESS STEEL ITEMS INTERGRANULAR CORROSION TEST SHALL BE CONDUCTED AS PER ASTM A262.
- 22
- FOR SAMPLE COOLERS, AS FAR AS POSSIBLE, COIL SHALL BE MADE FROM SINGLE STRAIGHT PIPE. HOWEVER, ONE BUTT-WELD JOINT IS PERMITTED. WELDING SHALL BE DONE BY GTAW PROCESS. THE AS/CS COIL SHALL BE NORMALIZED AND TEMPERED AFTER BENDING. SOLUTION ANNEALING FOR STAINLESS STEEL COIL SHALL BE CARRIED OUT AFTER BENDING. THE BUTT WELDED JOINT IN THE COIL, IF ANY, SHALL BE RADIOGRAPHED. ALL OTHER WELDS SHALL BE 100% MP TESTED FOR CS /AS AND DP TESTED FOR SS COMPONENTS.
- 23
- EXTERNAL SURFACE OF SAMPLE COOLERS SHALL BE BRUSHED/ MECHANICALLY CLEANED. AFTER TESTING, ONE COAT OF INORGANIC ZINC SILICATE (DFT 75 MICRONS) SHALL BE APPLIED AS PRIMER OVER EXTERNAL AND INTERNAL SURFACE OF THE SHELL AS WELL AS OVER THE CARBON STEEL / ALLOY STEEL COIL SURFACE.
- 24
- ALL CYLINDER VALVES SHALL BE HELIUM LEAK TESTED AS PER ASME SEC.V, SUBSECTION A, ARTICLE 10 (DETECTOR PROBE TECHNIQUE), APPENDIX IV AT A MINIMUM OF 25% OF THE ALLOWABLE (RATED) COLD WORKING PRESSURE. TEST DURATION SHALL BE 12 MIN. THE VALVE SHALL SHOW NO LEAKAGE. NO LEAKAGE IS DEFINED AS A TOTAL LEAKAGE RATE OF LESS THAN 0.0001 ML/S OF HELIUM.
- 25
- HYDRO TEST SHALL BE PERFORMED ON 100% BODY OF SHUTOFF VALVES (SUPPLY, RETURN, AND VENT) AT 1.5 TIMES THE RATED PRESSURE AS PER B16.34.
- 26
- POSITIVE MATERIAL IDENTIFICATION (PMI) SHALL BE PERFORMED AS PER THE SCOPE AND PROCEDURES AS DEFINED IN THE 'SPECIFICATION FOR POSITIVE MATERIAL IDENTIFICATION (PMI) AT VENDOR'S WORKS DOCUMENT NO. 080557C-000-JSS-6300-002.
- 27
- HOSES SHALL BE HYDRO TESTED AT 1.5 TIMES THE RATED PRESSURE ALONG WITH END CONNECTIONS.
- 28
- SAMPLE COOLER BODY SHALL BE FILLED WITH WATER AND LEAK TESTED AT AMBIENT TEMPERATURE. THE COIL SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE 1.5 TIMES THE CLASS RATING AT AMBIENT TEMPERATURE.
- 29
- TEST REPORTS SHALL BE SUPPLIED FOR ALL MANDATORY TESTS AS PER RELEVANT MATERIAL SPECIFICATIONS. TEST REPORTS SHALL ALSO BE SUPPLIED FOR HYDROSTATIC TEST AND ANY OTHER SUPPLEMENTARY TEST AS SPECIFIED IN THE REQUISITION.
- 30
- MATERIAL TEST CERTIFICATES (CHEMICAL COMPOSITION, PHYSICAL PROPERTIES AND HEAT TREATMENT) SHALL BE FURNISHED FOR ALL PRESSURE CONTAINING PARTS. MATERIAL TEST CERTIFICATES FOR OTHER PARTS SHALL ALSO BE FURNISHED FOR VERIFICATION DURING INSPECTION.
- 31
- DETAIL DIMENSIONAL DRAWING WITH PARTS, MATERIAL, WEIGHT ETC. SHALL BE SUBMITTED FOR RECORD/INFORMATION.
- 32
- ITEMS UNDER "NACE" OR "NACE+HIC" CATEGORY SHALL MEET THE REQUIREMENT OF JOB SUPPLY SPECIFICATION (JSS) TO EACH COMPONENT FOR SOUR SERVICE & HIC SPECIFIC REQUIREMENT.
- 33
- ITEMS UNDER "NACE" OR "NACE+HIC" CATEGORY SHALL MEET THE REQUIREMENT OF NACE MR0103.
- 34
- ALL ITEMS SHALL MEET THE REQUIREMENTS OF JOB SUPPLY SPECIFICATION (JSS) FOR EACH COMPONENT.
- 35
- REQUIREMENT OF HIC RESISTANT STEEL SHALL APPLY TO PLATE AND OTHER MATERIAL FOR "NACE+HIC" CATEGORY.
- 36
- WELD JOINT SHALL BE STRESS RELIEVED AS PER THE REQUIREMENT.
- .37.
- ALL ITEMS UNDER "IBR" CATEGORY SHALL BE INLINE WITH RESPECTIVE PMS AND IBR CERTIFIED.

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PROJECT : STANDBY SRU CLIENT : IOCL, PARADIP	NO. 0	DATE 29/12/2021	REVISION ISSUED AS JOB STANDARD	BY AM	CHECKED AM	APPD. LSJ	
JOB NO. : B366							

ANNEXURE-1 TO PEMC-07606

TYPE: SC-1 (BV) [SAMPLING SYSTEM WITHOUT SAMPLE COOLER]



NOTES:-

- 1) A & B: CYLINDER VALVE; TYPE TO BE DECIDED BY VENDOR
- 2) QC1, QC2 & QC3 : QUICK CONNECT FITTING
- 3) FLEXIBLE HOSE CONNECTION FOR SAMPLE CYLINDER OUTLET AND A FIXED CONNECTION FOR SAMPLE CYLINDER INLET.
- 4) ANY OTHER COMPONENT WHICH IS REQUIRED (BUT NOT SHOWN) FOR THE OPERATION OF CLOSED SAMPLING SYSTEM IS IN VENDOR'S SCOPE.
- 5) MATERIAL SHALL BE AS PER DATA SHEET.
- 6) CUSTOMER'S SCOPE COMPANION FLANGES SHALL BE WELDNECK FLANGE, B16.5, RF/125AARH.
- 7) WHEN SAMPLE IS NOT BEING TAKEN, OUTLET CONNECTION QC2 SHALL BE ENGAGED WITH INLET CONNECTION QC1.



ENGINEERS INDIA LIMITED
NEW DELHI

SAMPLING SYSTEM
TYPE SC-1 (BV)

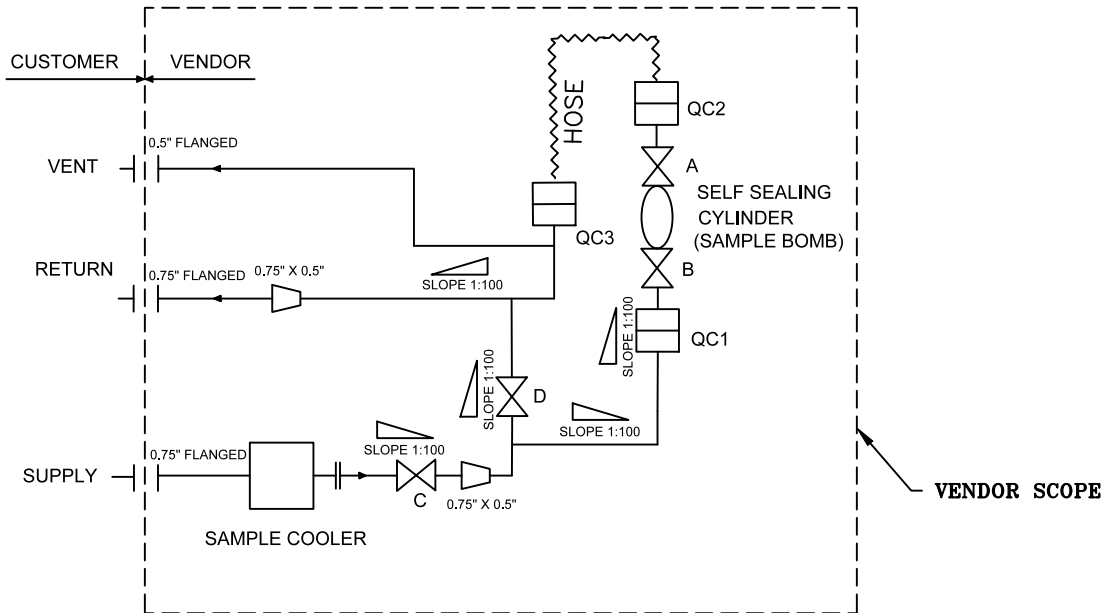
DRAWING NO.	REV.
B366-088-16-43-SK-9021	0
SHEET 1 OF 1	

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EIL -1641-509 A4-210 x 297

PROJECT : STANDBY SRU	NO.	DATE	REVISION	BY	CHECKED	APPD.	
CLIENT : IOCL, PARADIP	0	29/12/2021	ISSUED AS JOB STANDARD	AM	AM	LSJ	
JOB NO. : B366							

ANNEXURE-1 TO PEMC-07606

TYPE: SC-4 (BV) [SAMPLING SYSTEM WITH SAMPLE COOLER]



NOTES:-

- 1) A & B: CYLINDER VALVE; TYPE TO BE DECIDED BY VENDOR
- 2) C: SUPPLY VALVE; TYPE TO BE DECIDED BY VENDOR
- 3) D: BYPASS VALVE; TYPE TO BE DECIDED BY VENDOR
- 4) QC1, QC2 & QC3 : QUICK CONNECT FITTING
- 5) FLEXIBLE HOSE CONNECTION FOR SAMPLE CYLINDER OUTLET AND A FIXED CONNECTION FOR SAMPLE CYLINDER INLET.
- 6) ANY OTHER COMPONENT WHICH IS REQUIRED (BUT NOT SHOWN) FOR THE OPERATION OF CLOSED SAMPLING SYSTEM IS IN VENDOR'S SCOPE.
- 7) CUSTOMER'S SCOPE COMPANION FLANGES SHALL BE WELDNECK FLANGE, B16.5, RF/125AARH.
- 8) WHEN SAMPLE IS NOT BEING TAKEN, OUTLET CONNECTION QC2 SHALL BE ENGAGED WITH INLET CONNECTION QC1.
- 9) FOR DETAIL OF SAMPLE COOLER, REFER, DRAWING B366-088-16-43-SK-9023.
- 10) MATERIAL SHALL BE AS PER DATA SHEET.
- 11) THE SYSTEM/LINE TO BE SLOPED (1:100) TOWARDS THE FLOW DIRECTION.



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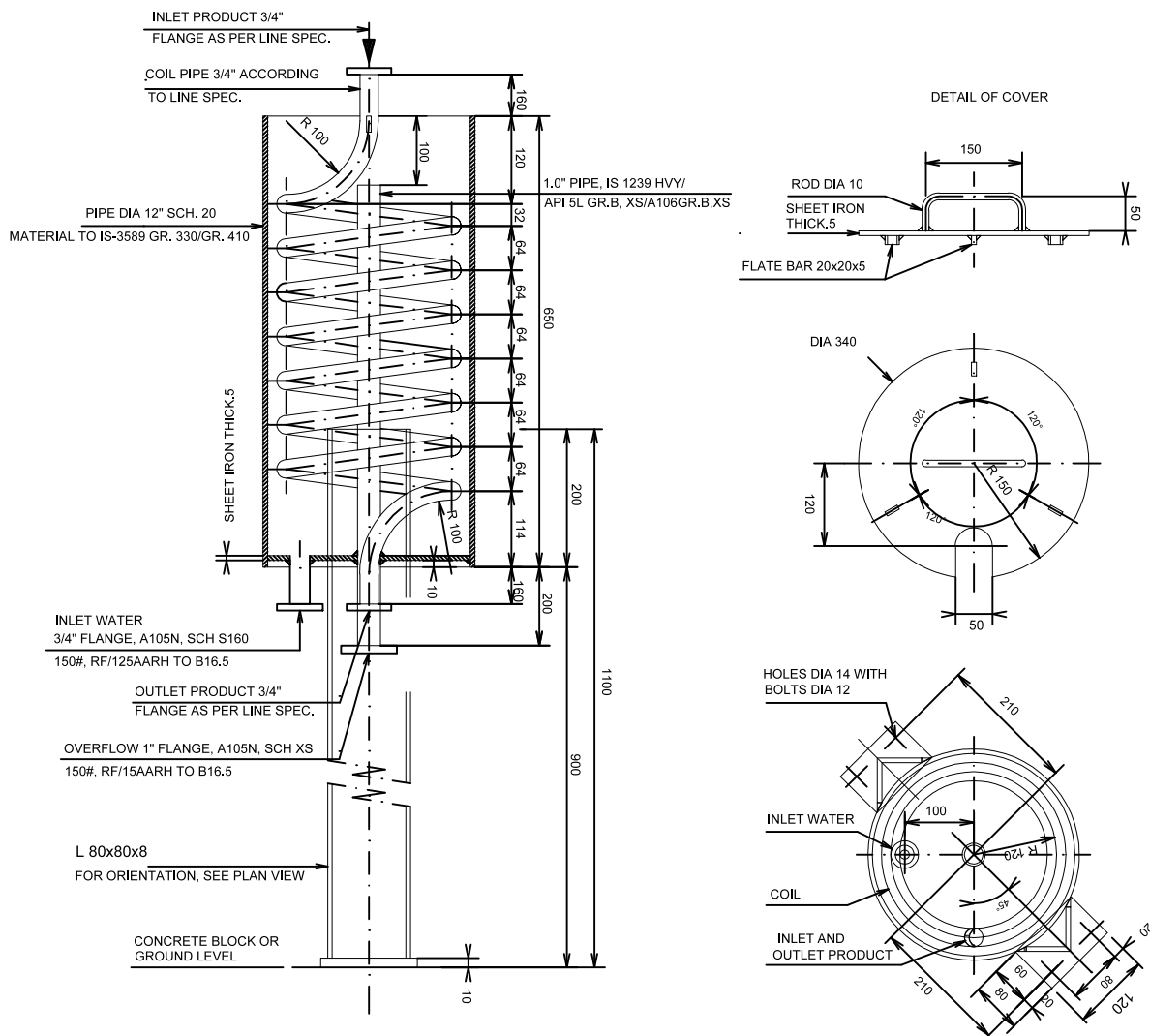
SAMPLING SYSTEM
TYPE SC-4 (BV)

DRAWING NO.	REV.
B366-088-16-43-SK-9022	0
SHEET 1 OF 1	

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EIL -1641-509 A4-210 x 297

PROJECT : STANDBY SRU	NO.	DATE	REVISION	BY	CHECKED	APPD.	
CLIENT : IOCL, PARADIP	0	29/12/2021	ISSUED AS JOB STANDARD	AM	AM	LSJ	
JOB NO. : B366							

ANNEXURE-1 TO PEMC-07606



NOTES:-



- 1) DIMENSIONS ARE IN MM UNLESS OTHERWISE INDICATED.



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COOLER FOR SAMPLE COLLECTION

DRAWING NO.	REV.
B366-088-16-43-SK-9023	0
SHEET 1 OF 1	

 	PROJECT		Standby SRU & Additional Tanks IOCL- Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
INSPECTION AND TEST PLAN FOR PIPING BULK ITEMS AND SPECIALITIES	Project No. 080557C001	Document No. 080557C-000-ITP-1300-001	Rev. No. B	Page 1 of 8

INSPECTION AND TEST PLAN FOR PIPING BULK ITEMS AND SPECIALITIES

Inspection category: 3

			 Written By <small>Karthikgan Chakrabarti 2020/06/09 11:22:15 +05'30'</small>	 Checked By <small>Muthusaran Ganesan 2020/06/09 11:34:35 +05'30'</small>	 Approved By <small>Vaidyasubramanian V 2020/06/09 13:07:48 +05'30'</small>	 Authorized By <small>Munichandrasekar 2020/06/09 23:36:32 +05'30'</small>
B	9-JUNE-2020	ISSUED FOR DESIGN	CK	GM	VV/SL	JMC
A	14-OCT-2019	ISSUED FOR DESIGN	CK	AS	VV	JM
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	AUTHORIZED

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 	PROJECT		Standby SRU & Additional Tanks IOCL- Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
INSPECTION AND TEST PLAN FOR PIPING BULK ITEMS AND SPECIALITIES	Project No. 080557C001	Document No. 080557C-000-ITP-1300-001	Rev. No. B	Page 2 of 8

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ATTACHMENTS:

1. Annexure-1 : ITP for Seamless Pipes
2. Annexure-2 : ITP for Welded Pipes
3. Annexure-3 : ITP for Fittings
4. Annexure-4 : ITP for Flanges
5. Annexure-5 : ITP for Valves
6. Annexure-6 : ITP for Gaskets
7. Annexure-7 : ITP for Bolting
8. Annexure-8 : ITP for Steam Traps
9. Annexure-9 : ITP for Strainers
10. Annexure-10: ITP for Hoses and Couplings



 	PROJECT		Standby SRU & Additional Tanks IOCL- Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
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1. INTRODUCTION

INDIAN OIL CORPORATION LIMITED (IOCL) has awarded Fax of Acceptance (FOA) dated 29th August 2019 to M/s. Technip India Limited (TPIL) for Consultancy services (PMC/EPCM services) for overall project management, FEED Review / FEED, Detailed Engineering, Procurement & expediting services, Tendering & award, Construction Management & Supervision, Assistance in start-up, Commissioning & performance test runs for installation of a Standby SRU of 525 TPD capacity and execution of Additional tanks for Paradip Refinery, Odisha, India.

2. DEFINITIONS & ABBREVIATIONS

Abbreviation	Definition /Expanded form
IOCL/ CLIENT	Indian Oil Corporation Limited
PMC/ CONSULTANT	Technip India Limited
LICENSOR	Party selected by IOCL for process technology ownership for any UNIT
CONTRACTOR	Party whose services are obtained for performing the works specified as part of LSTK / packages.
EPCM	Engineering, Procurement & Construction Management Services.
LSTK	Lump Sum Turn Key portion of the work to be executed by CONTRACTOR
FEED	Front End Engineering Design
AUTHORISED REPRESENTATIVE	IOCL's/ CONSULTANT's representative authorized to act for and on behalf of them.
VENDOR	Any third party supplying the equipment/materials for setting up the Plant
PROJECT	Indicates Standby SRU and Additional tanks Project, Paradip Refinery
UNIT	Indicates any particular portion of the project to be built which can be Process related or Utilities/Offsites related

 	PROJECT		Standby SRU & Additional Tanks IOCL- Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
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SRU	Sulphur Recovery Unit
OISD	Oil Industry Safety Directorate
ASME	American Society of Mechanical Engineers
API	American Petroleum Institute
P&ID	Piping and Instrumentation Diagram
A/G	Above Ground
U/G	Under Ground
B/L	Battery Limit
ISBL	Inside Battery Limit
EOT	Electrically-operated Overhead Travelling
MTO	Material Take Off

3. SCOPE

3.1 This Inspection and Test Plan covers the minimum testing requirements of Piping components.

This Inspection and Test Plan is an engineering document which defines for each type of piping components:

- The type and extent of CONTRACTOR and PMC/OWNER involvement in each phase of fabrication, control and testing requiring an inspection.
- The resulting vendor's contractual obligations, in accordance with applicable project general purchase conditions.

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Note: This Inspection and Test Plan may under no circumstances be used as a substitute for the vendor's Quality Control Plan.

3.2 Conflicts, Deviations and Clarifications:

Any conflicts between this specification and other applicable Engineering Standards, Material Specifications, Standard Drawings, Engineering Procedures, Company Forms or Industry standards, specifications, Codes and forms shall be brought to the attention of Authorized Representative by the Contractor for resolution.


Until the resolution is officially made by the Authorized Representative, the most stringent requirement shall govern.

Where applicable Codes or Standards are not called by this standard or its requirements are not clear, it shall be brought to attention of Authorized Representative by Contractor for resolution.

Direct all requests for deviations or clarifications in writing to the Authorized Representative for final resolution.

4. TERMINOLOGY

DFT	Dry Film Thickness
DPT	Dye Penetrant Testing
DHT	De-hydrogen Heat Treatment
ERTL	Electronics Regional Test Laboratory
FCRI	Fluid Control Research Institute
HT	Heat Treatment
HIC	Hydrogen Induced Cracking
ITP	Inspection and Test Plan
IP	Ingress Protection
IHT	Intermediate Heat Treatment
IC	Inspection Certificate
IGC	Intergranular corrosion
MPT/MT	Magnetic Particle Testing
MTC	Material Test Certificate
MRT	Mechanical Run Test
NDT	Non-Destructive Testing
NPSH	Net Positive Suction Head
PO	Purchase Order

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PESO	Petroleum Explosive Safety Organization
PQR	Procedure Qualification Record
PR	Purchase Requisition
PMI	Positive Material Identification
RT	Radiography Testing
SSCC	Sulphide Stress Corrosion Cracking
TC	Test Certificate
TPI or TPIA	Third Party Inspection Agency
UT	Ultrasonic Testing
VDR	Vendor Data Requirement
WPS	Welding Procedure Specification
WPQ	Welders Performance Qualification

5. REFERENCE DOCUMENTS


PO / PR / Standards referred therein / Job Specifications / Approved documents.

The codes latest edition as on date of issue of material requisition shall be applicable. Some BS codes may have been superseded by ISO / BS –EN codes, the latest one shall be acceptable.

6. INSPECTION AND TEST REQUIREMENTS

6.1 Refer following Annexures for the Inspection and test requirements for the listed Piping bulk items and specialties.

- Annexure- 1 : ITP for Seamless Pipes
- Annexure - 2 : ITP for Welded Pipes
- Annexure - 3 : ITP for Fittings
- Annexure - 4 : ITP for Flanges
- Annexure - 5 : ITP for Valves
- Annexure - 6 : ITP for Gaskets
- Annexure - 7 : ITP for Bolting
- Annexure - 8 : ITP for Steam Traps
- Annexure - 9 : ITP for Strainers
- Annexure - 10: ITP for Hoses and Couplings

 	PROJECT		Standby SRU & Additional Tanks IOCL- Paradip Refinery	
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6.2 Extent of Inspection:

The extent of Inspection activities are defined as follows:

H: (Hold) Point

The Supplier cannot carry out the specified controls and tests without Inspector attendance.

Consequently, the attendance to witnessing is mandatory. The Supplier must notify the CONTRACTOR / PMC / OWNER by fax of the dedicated inspection activity at least fifteen (15) days in advance.

W: (Witness)

The Supplier must notify dedicated inspection activity at least fifteen (15) days in advance. CONTRACTOR / PMC / OWNER witnessing is not mandatory, but optional. If CONTRACTOR / PMC / OWNER does not elect to be present, the supplier may proceed with the intended activity, provided controls and test reports are made available for the inspector's review during his subsequent visit.

When a percentage value is indicated (i.e. W 10%) the inspection activities will be witnessed on spot basis as per percentage indicated.

R: (Review) - Review of Documents

The Supplier has either to submit to Inspector for comments the documents required prior to the performance of the dedicated activity or to transmit or make available for the review of Inspector the results of the controls and tests conducted, as the case may be.


7. SUPPLIER'S FABRICATION AND QUALITY CONTROL PLAN

The Supplier must issue a Fabrication and Quality Control Plan for each Equipment / Machinery / Package/ Bulk Item.

The Supplier's Fabrication and Quality Control Plan is a document which defines in a chronological manner the list of the operations of fabrication, controls and tests in accordance with his own "know-how" and with the requirements specified in MR.

Following information shall be clearly specified against each operation:

- Reference documents (drawings, procedures, etc.)
- Acceptance criteria (code, etc.)
- Recording documents for controls and tests

 		PROJECT	Standby SRU & Additional Tanks IOCL- Paradip Refinery	
		CLIENT	INDIAN OIL CORPORATION LIMITED	
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- Involvement of the Quality Control department of the Supplier and/or his sub-supplier



This Supplier's Fabrication and Quality Control Plan will have to include all inspection activities defined in Inspection and Test Plan as well as all inspection activities scheduled by Independent Inspection Authority and/or the Client.

8. INSPECTION RELEASE CERTIFICATE

This document issued by Inspector, permits the vendor to proceed with the packing and to notify the shipment.

9. QUALITY CONTROL MANUFACTURING DOSSIER "QCMD" (ex. Inspection Book)

This document must be completely reviewed during the final Inspection. Preliminary Copy (Waiting for CLIENT final approval), checked and signed by the Inspector, must be shipped together with the goods and indicated in the relevant Packing List.

			PROJECT	Standby SRU & Additional Tanks IOCL- Paradip Refinery				
			CLIENT	INDIAN OIL CORPORATION LIMITED				
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Annexure - 1								
INSPECTION AND TESTING REQUIREMENTS FOR SEAMLESS PIPES								
SL NO.	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	RECORD	SCOPE OF INSPECTION			OWNER
					SUPPLIER	CONTRACTOR/TPIA	PMC	
1.0	Procedure							
1.1	Hydrostatic Test, Heat Treatment, NDT and Other Procedures	Documented Procedures	100%	Procedure Documents	R	R		
2.0	Material Inspection							
2.1	Raw Material Inspection	Review of MTC for Chemical, Mechanical Properties, Size & steel making process, etc.	100%	Test Certificates	P	R		
3.0	In Process Inspection							
3.1	Heat Treatment	Normalizing, Tempering, Solution Annealing, Stabilization Heat treatment etc as applicable	100%	HT chart	P	R		
3.2	NDT As applicable	Surface & Internal Imperfections	PR/ Purchase Specifications	NDT Reports	P	R		
3.3	Identification of test Samples	Product Chemical, Tensile, Hardness, Impact, IGC and other test as applicable	Lots as per specification	Test Reports	P	H		
3.4	Product Analysis	Chemical Composition	Lot as per specification	Test Reports	P	W		
3.5	Destructive Testing	Tensile, Hardness, Impact, IGC and Other test as applicable	Lot as per specification	Test Report	P	W		
3.6	Corrosion Test (If any)	Intergranular corrosion	Lot as per specification	Test Report	P	W		
3.7	Galvanizing (If Applicable)	Integrity Of Galvanized Coating	100%	Inspection Report	P	W		
4.0	Final Inspection							
4.1	Hydrostatic Testing	Leak Check	100%	Test Report	P	RW (Note 1)		
4.2	Visual and Dimensional Inspection (VDI)	Surface Condition, Straightness, End Finish, Bevel Angle, Root Face, Outer Dia, Thickness, length, End Finish, Marking, End Caps etc	100%	Inspection Report	P	W (Note-5)		
4.3	PMI Check(If applicable)	Chemical Check	As Applicable	Inspection Report	P	W		
4.4	Final Stamping	Stamping of Accepted Pipes	Stamping of Pipes which are witness by PMC/OWNER, Other pipes to have suppliers Identification	Inspection Report	P	H		
5.0	Painting							
5.1	Rust Preventive Coating & Color Coding(As applicable)	Visual & Color Coding as applicable	100%	Inspection Report	P	W		
6.0	Documentation & IC							
6.1	Final documents	Review of Stage Inspection report / Test Reports	100%	Supplier TC & IC	P	H	R	
6.2	Inspection release certificate	Issue of Inspection release certificate	100%	Supplier TC & IC	-	H	R	

Legend: H-Hold (Do not proceed with approval), P-Perform, RW-Random Witness (As specified or 10% (min.1 no.of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (As applicable)

- Carbon steel Pipes (Other than LTCS & Pipes for special services like NACE, H2, HIC, etc) upto 12" will be accepted on review of supplier test certificates. Supplier test Certificates to be reviewed by TPIA.
- This document describes the generic test requirements. Any additional test or Inspection scope if specified in contract documents shall also be applicable (unless otherwise agreed upon).
- Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in Job specification / Approved Documents.
- For orders placed on stockist, items shall be accepted based on manufacturer's TC with EN10204 type 3.2 certification from client approved suppliers.
- 100% Visual & 10% dimensional checks of each size, pressure rating and type of component at vendors' works by Third Party Inspection (TPI) and surprise checks by PMC/OWNER.

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			CLIENT		INDIAN OIL CORPORATION LIMITED			
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Annexure - 2								
INSPECTION AND TESTING REQUIREMENTS FOR WELDED PIPES								
SL NO.	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	RECORD	SCOPE OF INSPECTION			OWNER
					SUPPLIER	CONTRACTOR/TPIA	PMC	
1.0	Procedure							
1.1	Hydrostatic Test, Heat Treatment, NDT and Other Procedures	Documented Procedures	100%	Procedure Documents	P	H		
1.2	WPS,PQR & WPQ	Welding Parameters & Qualification Record	100%	WPS, PQR & WPQ	P	H		
2.0	Material Inspection							
2.1	Raw Material Inspection (**Special services like NACE, H2, HIC..etc)	Review of MTC for Chemical, & Mechanical Properties	100%	Test Certificates Suppliers inspection report	P	H		
3.0	In Process Inspection							
3.1	Welding	Welding Parameters as per WPS/PQR	100%	Inspection Reports	P	RW		
3.2	Heat Treatment	Stress Relieving, Normalizing, Tempering, Solution Annealing, Stabilization Heat treatment etc as applicable	100%	HT chart	P	W		
3.3	Corrosion & Metallurgical testing	Intergranular corrosion	Lot as per specification	Test Report	P	W		
3.4	Ferrite Checking of SS Pipes (as Applicable)	% Ferrite Check	Random On Weld	Inspection Report	P	W		
3.5	UT / RT As applicable	Surface & Internal Imperfections	PR / Purchase Specification	RT Films, Reports & UT Reports	P	W		
3.6	Identification of test Samples	Product Chemical, Tensile, Hardness, Impact, IGC and other test as applicable	Lots as per specification	Test Reports	P	W		
3.7	Product Analysis	Chemical Composition	PR / Purchase Specification	Test Reports	P	W		
3.8	Destructive Testing	Tensile, Hardness, Impact, IGC and Other test as applicable	Lot as per specification	Test Report	P	W		
3.9	Galvanizing (If Applicable)	Integrity Of Galvanized Coating	100%	Inspection Report	P	W		
4.0	Final Inspection							
4.1	Hydrostatic Testing	Leak Check	100%	Test Report	P	W		
4.2	Visual and Dimensional Inspection (VDI)	Surface Condition, Straightness, End Finish, Bevel Angle,Root Face, Outer Dia, Profile Thickness, length,End Finish, Marking etc,	100%	Inspection Report	P	W (Note-4)		
4.3	Hardness test(If applicable)	As per specification	100%	Test Report	P	W		
4.4	Corrosion test(If applicable)	As per specification	100%	Test Report	P	W		
4.5	PMI Check	Chemical Check	As Applicable	Inspection Report	P	W		
4.6	Final Stamping	Stamping of Accepted Pipies	Stamping of Pipies which are witness by PMC/OWNER	Inspection Report	P	P		
5.0	Painting							
5.1	Rust Preventive Coating & Color Coding(As applicable)	Visual & Color Coding as applicable	100%	Inspection Report	P	W		
6.0	Documentation & IC							
6.1	Final documents	Review of Stage Inspection report / Test Reports	100%	Supplier TC & IC	P	H	R	
6.2	Inspection release certificate	Issue of Inspection release certificate	100%	Supplier TC & IC	-	H	R	

Legend: H-Hold (Do not proceed with approval), P-Perform, RW-Random Witness (As specified or 10% (min.1 no of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (As applicable)



- This document describes the generic test requirements. Any additional test or Inspection scope if specified in contract documents shall also be applicable (unless otherwise agreed upon).
- Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in Job specification / Approved Documents.
- For orders placed on stockist, items shall be accepted based on manufacturer's TC with EN10204 type 3.2 certification from client approved suppliers.
- 100% Visual & 10% dimensional checks of each size, pressure rating and type of component at vendors' works by Third Party Inspection (TPI) and surprise checks by PMC/OWNER

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Annexure - 3								
INSPECTION AND TESTING REQUIREMENTS FOR FITTINGS								
SL NO.	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	RECORD	SCOPE OF INSPECTION			
					SUPPLIER	CONTRACTOR/TPIA	PMC	OWNER
1.0	Procedure							
1.1	Heat Treatment/NDT	Documented Procedures	100%	Procedure Documents	P	R		
1.2	WPS,PQR & WPQ(If applicable)	Welding Parameters & Qualification Record	100%	WPS, PQR & WPQ	P	H		
2.0	Material Inspection							
2.1	Raw Material Inspection (Billets, Rounds, Pipes, Coil, Plates, etc) (**Special services line NACE, H2, HIC..etc)	Review of MTC for Chemical, & Mechanical Properties, size & steel making process, etc	100%	Mill test Certificates, Suppliers inspection Report	P	H		
3.0	In Process Inspection							
3.1	Forming Welding	Forming & Welding Parameters	100%	Supplier's records	P	RW		
3.2	Ferrite check of SS welds (If applicable)	% Ferrite Check	100%	Inspection report	P	RW		
3.3	Heat Treatment	Stress Relieving, Normalizing, Tempering, Solution Annealing, Stabilization Heat treatment etc as applicable	100%	HT Chart/Report	P	RW		
3.4	NDT-RT As Applicable	Surface & Internal Imperfections	PR / Purchase Specification	RT Films, Reports & UT Reports	P	R		
3.5	Corrosion & Metallurgical testing	Intergranular corrosion	Lot as per specification	Test Report	P	W		
3.6	NDT / UT As applicable	Surface & Internal Imperfections	PR / Purchase Specification	UT Reports	P	W		
3.7	NDT-DPT/MPT of bevel ends	Surface / sub surface defects	100%	Test report	P	RW		
3.8	Identification of test Samples	Product Chemical, Tensile, Hardness, Impact, IGC and other test as applicable	Lots as per specification	Test Reports	P	W		
3.9	Product Analysis (as applicable)	Chemical Composition	PR / Purchase Specification	Test Reports	P	W		
3.10	Destructive Testing	Tensile, Hardness, Impact, IGC and Other test as applicable	100%	Test Report	P	W		
3.11	Galvanizing (If Applicable)	Integrity Of Galvanized Coating	100%	Inspection Report	P	W		
4.0	Final Inspection							
4.1	Visual and Dimension	Size, Thickness / Schedule, Dimensions, Surface quality, Marking etc.	100%	Inspection Report	P	W (Note-6)		
4.2	Hardness testing on fittings (** Special services like NACE, H2, HIC,etc)	Hardness value of base metal & Weld / HAZ as applicable	Random 10%	Test report	P	W		
4.3	PMI Check (If applicable)	Chemical check	As Applicable	Inspection Report	P	W		
4.4	Final Stamping	Stamping of Accepted Fittings	Stamping of Fittings which are witness by PMC/OWNER	Inspection Report	P	P		
4.5	Final Stamping	Stamping of Accepted Pipies	Stamping of Pipies which are witness by PMC/OWNER	Inspection Report	P	P		
5.0	Painting							
5.1	Shot Blasting Rust Preventive Coating & color Coding	Visual & Color Coding as applicable	100%	Inspection Report	P	W		
6.0	Documentation & IC							
6.1	Final documents	Review of Stage Inspection report / Test Reports	100%	Supplier TC & IC	P	H	R	
6.2	Inspection release certificate	Issue of Inspection release certificate	100%	Supplier TC & IC	-	H	R	

Legend: H-Hold (Do not proceed with approval), P-Perform, RW-Random Witness (As specified or 10% (min.1 no.of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (As applicable)

1. This document describes the generic test requirements. Any additional test or Inspection scope if specified in contract documents shall also be applicable (unless otherwise agreed upon).
2. Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in Job specification / Approved Documents.
3. For orders placed on stockist, items shall be accepted based on manufacturer's TC with EN10204 type 3.2 certification from client approved suppliers.
4. For welded fittings, it is recommended to use low hydrogen consumable for AS, SS 410 fittings & HIC resistant consumable for HIC service fittings.
5. TPIA reserves the right to check raw material consumption and traceability records.
6. 100% Visual & 10% dimensional checks of each size, pressure rating and type of component at vendors' works by Third Party Inspection (TPI) and surprise checks by PMC/OWNER.

			PROJECT	Standby SRU & Additional Tanks IOCL- Paradip Refinery				
			CLIENT	INDIAN OIL CORPORATION LIMITED				
INSPECTION AND TEST PLAN FOR PIPING BULK ITEMS AND SPECIALITIES		Project No. 080557C001	Document No. 080557C-000-ITP-1300-001		Rev. No. B	Page 1 of 1		
Annexure - 4								
INSPECTION AND TESTING REQUIREMENTS FOR FLANGES								
SL NO.	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	RECORD	SCOPE OF INSPECTION			
					SUPPLIER	CONTRACTOR/TPIA	PMC	OWNER
1.0	Procedure							
1.1	Heat Treatment, NDT and other Procedures	Documented Procedures	100%	Procedure Documents	P	R		
1.2	WPS,PQR & WPQ	Welding Parameters & Qualification Record	100%	WPS, PQR & WPQ	P	R		
2.0	Material Inspection							
2.1	Raw Material Inspection	Chemical, & Mechanical Properties	100%	Test Certificates	P	R		
3.0	In Process Inspection							
3.1	Welding / Forging	Forging & Welding Parameters	100%	Inspection report	P	RW		
3.2	Heat Treatment	Stress Relieving, Normalizing, Tempering, Solution Annealing, Stabilization Heat treatment etc as applicable	100%	HT Chart	P	RW		
3.3	Identification of test Samples	Product Chemical, Tensile, Hardness, Impact, IGC and other test as applicable	100%	Test Reports	P	RW		
3.4	Corrosion & Metallurgical testing	Intergranular corrosion	Lot as per specification	Test Report	P	W		
3.5	Product Analysis (As applicable)	Chemical composition	PR / Purchase Specification	Test Reports	P	RW		
3.6	Destructive Testing	Mechanical, Impact, IGC and Other test as applicable	100%	Test Report	P	W		
3.7	NDT As applicable	Surface & Internal Imperfections	PR / Purchase Specification	NDT Reports	P	RW		
3.8	Machining and Drilling	Visual & Dimensional check	Lot as per specification	Inspection report	P	R		
3.8	Galvanizing (If Applicable)	Integrity Of Galvanized Coating	100%	Inspection Report	P	W		
4.0	Final Inspection							
4.1	Final Inspection	1.Visual 2. Dimesnions 3. Hardness 4. Marking etc	100%	Inspection Report	P	W (Note-4)		
4.3	PMI Check(If applicable)	Chemical check	As Applicable	Inspection Report	P	W		
4.4	Final Stamping	Stamping of Accepted Items	Stamping of items which are witnessed by PMC / OWNER	Inspection Report	P	P		
5.0	Painting							
5.1	Rust Preventive Coating & color Coding	Visual & Color Coding as applicable	100%	Inspection Report	P	W		
6.0	Documentation & IC							
6.1	Final documents	Review of Stage Inspection report / Test Reports	100%	Supplier TC & IC	P	H	R	
6.2	Inspection release certificate	Issue of Inspection release certificate	100%	Supplier TC & IC	-	H	R	

Legend: H-Hold (Do not proceed with approval), P-Perform, RW-Random Witness (As specified or 10% (min.1 no.of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (As applicable)



- For Non NACE & Non Hydrogen service Carbon Steel Flanges, Spectacle Blinds & Drip rings upto 24" - 300 ANSI Class will be accepted on review of Supplier Test Certificates. Supplier Test Certificates to be reviewed by TPIA.
- This document describes the generic test requirements. Any additional test or inspection scope if specified in contract documents shall also be applicable (unless otherwise agreed upon).
- Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in Job specification / Approved Documents.
- 100% Visual & 10% dimensional checks of each size, pressure rating and type of component at vendors' works by Third Party Inspection (TPI) and surprise checks by PMC/OWNER..

			PROJECT	Standby SRU & Additional Tanks IOCL- Paradip Refinery				
			CLIENT	INDIAN OIL CORPORATION LIMITED				
INSPECTION AND TEST PLAN FOR PIPING BULK ITEMS AND SPECIALITIES		Project No. 080557C001	Document No. 080557C-000-ITP-1300-001		Rev. No. B	Page 1 of 1		
Annexure - 5								
INSPECTION AND TESTING REQUIREMENTS FOR VALVES								
SL NO.	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	RECORD	SCOPE OF INSPECTION			
					SUPPLIER	CONTRACTOR/TPIA	PMC	OWNER
1.0	Procedure							
1.1	Hydrostatic Test, Heat Treatment, NDT, Helium Leak Test and other Procedures	Documented Procedures	100%	Procedure Documents	P	R		
1.2	WPS,PQR & WPQ	Welding Parameters & Qualification Record	100%	WPS, PQR & WPQ	P	R, W - For New		
1.3	Pre-Qualification Tests	Fire safe Parameters & Qualification Record	PR / Purchase Specification	Acceptance Report	P	W		
2.0	Material Inspection							
2.1	Cating & Forgings (Body, Bonnet, Disc, Stem, Body ring	Chemical, Mechanical, Heat Treatment, NDT, IGC & Other Properties as applicable	100%	Test Certificates	H	H		
2.2	Cating & Forgings (Body, Bonnet, Disc, Stem, Body ring	Visual & Dimensions	100%	Inspection Report	H	H		
2.3	Body and Bonnet Castings	Radiography Examination	PR / Purchase Specification	Films and report	H	R		
2.4	Bars for Trim Material	Chemical Analysis	Each Heat	Test Certificates & Lab report	H	R		
2.5	Corrosion & Metallurgical testing (as applicable)	Intergranular corrosion	Lot as per specification	Test Report	P	W		
2.6	Magnetic particle testing /Dye penetrant testing	As per NDE specification	100%	Test Report	P	W		
2.7	Gaskets, Gear units, Fasteners, Gland, Packings, etc	Physical / Chemical Properties	100%	Test Certificates & Lab report	H	R		
2.8	Actuators as applicable	Performance, Statutory Certificates as applicable	100%	Test Certificates, Inspection reports	H	H		
3.0	In Process Inspection							
3.1	Welding	Welding Parameters as per WPS / PQR	100%	Inspection report	P	RW		
3.2	Machining of components	Visual / Dimension	100%	Inspection report	W	R		
4.0	Final Inspection							
4.1	Hydrostatic / Pneumatic Test and Helium Leak Test as applicable	Leak Check	PR / Purchase Specification	Test Report	P	RW (Note-1)		
4.2	Visual / Dimension	Surface & Dimension Check	100%	Test Report	P	W (Note-4)		
4.3	Functional test for Actuator Operated Valves	Satisfactory Performance	100%	Test Report	P	RW		
4.4	PMI Check (as applicable)	Chemical	As Applicable	Inspection report	P	RW		
4.5	Strip Check (As applicable)	Verify Components & Differential hardness if applicable	PR / Purchase Specification	Inspection report	P	RW (Note-1)		
4.6	Final Stamping	Stamping of Accepted Valves	Stamping of items which are witnessed by PMC / OWNER	Inspection report	P	P		
5.0	Painting							
5.1	Painting & color Coding as applicable	Visual / DFT Check	100%	Inspection Report	P	W		
6.0	Documentation & IC							
6.1	Final documents	Review of Stage Inspection report / Test Reports	100%	Supplier TC & IC	P	H	R	
6.2	Inspection release certificate	Issue of Inspection release certificate	100%	Supplier TC & IC	-	H	R	

Legend: H-Hold (Do not proceed with approval), P-Perform, RW-Random Witness (As specified or 10% (min.1 no. of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (As applicable)



- For Non NACE & Non Hydrogen service Carbon Steel valves upto 12" will be accepted on review of Supplier Test Certificates. Supplier Test Certificates to be reviewed by TPIA.
- This document describes the generic test requirements. Any additional test or inspection scope if specified in contract documents shall also be applicable (unless otherwise agreed upon).
- Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in Job specification / Approved Documents.
- 100% Visual & 10% dimensional checks of each size, pressure rating and type of component at vendors' works by Third Party Inspection (TPI) and surprise checks by PMC/OWNER.

			PROJECT	Standby SRU & Additional Tanks IOCL- Paradip Refinery				
			CLIENT	INDIAN OIL CORPORATION LIMITED				
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Annexure - 6								
INSPECTION AND TESTING REQUIREMENTS FOR GASKETS								
SL NO.	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	RECORD	SCOPE OF INSPECTION			
					SUPPLIER	CONTRACTOR/TPIA	PMC	OWNER
1.0	Procedure							
1.1	HT & Test Procedure	Documented Procedures	100%	Procedure Documents	P	R		
2.0	Material Inspection							
2.1	Raw Material Inspection	Chemical, Physical and other Properties as per applicable material specification	100%	Test Certificates	P	R		
3.0	In Process Inspection							
3.1	Punching & Finishing	Finish & Dimension	100%	Inspection Report	P	H		
3.2	Heat Trement for RTJ Gaskets (As applicable)	Time & Temperature	100%	HT Chart	P	H		
3.3	Corrosion & Metallurgical testing	Intergranular corrosion	Lot as per specification	Test Report	P	W		
4.0	Final Inspection							
4.1	Final Visual, Dimension & Testing	Compressibility, Recovery, Seal ability, Groove Hardness for Ring & Tongue Joint etc as applicable and Visual / Dimension	100%	Inspection Report	P	W (Note-3)		
4.2	Final Stamping	Stamping Of Accepted Gaskets	100%	Inspection Report	P	W		
4.3	PMI Check	Chemical Check	As Applicable	Inspection Report	P	W		
5.0	Painting							
5.1	Rust Prevention & Color Coding (As applicable)	Visual & Color Coding as applicable	100%	Inspection Report	P	W		
6.0	Documentation & IC							
6.1	Final documents	Review of Stage Inspection report / Test Reports	100%	Supplier TC & IC	P	H	R	
6.2	Inspection release certificate	Issue of Inspection release certificate	100%	Supplier TC & IC	-	H	R	

Legend: H-Hold (Do not proceed with approval), P-Perform, RW-Random Witness (As specified or 10% (min.1 no.of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (As applicable)

1. This document describes the generic test requirements. Any additional test or Inspection scope if specified in contract documents shall also be applicable (unless otherwise agreed upon).
2. Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in Job specification / Approved Documents.
3. 100% Visual & 10% dimensional checks of each size, pressure rating and type of component at vendors' works by Third Party Inspection (TPI) and surprise checks by PMC/OWNER.



			PROJECT	Standby SRU & Additional Tanks IOCL- Paradip Refinery				
			CLIENT	INDIAN OIL CORPORATION LIMITED				
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Annexure - 7								
INSPECTION AND TESTING REQUIREMENTS FOR BOLTING								
SL NO.	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	RECORD	SCOPE OF INSPECTION			
					SUPPLIER	CONTRACTOR/TPIA	PMC	OWNER
1.0	Procedure							
1.1	Heat Treatmetn & NDT Procedures	Documented Procedures	100%	Procedure Documents	P	H		
2.0	Material Inspection							
2.1	Raw Material Inspection	Chemical, Steel making prcess, Macro etch, etc.,	100%	Test Certificates	P	R		
3.0	In Process Inspection							
3.1	Thread Rling, Hot Forging of Nuts/Boll Heads, Machining	Process parameters	100%	Inspection Reports	P	RW		
3.2	Heat Treatment	Normalizing & Tempering, Quenching & Tempering, Solution Annealing, Stabilization Heat Treatment, Strain Hardening, Nitriding etc., as applicable	100%	Inspection Reports	P	RW		
3.3	Corrosion & Metallurgical testing(If applicable)	Intergranular corrosion	Lot as per specification	Test Report	P	W		
3.4	NDT As applicable	Defects detection	100%	Test Reports	P	W		
3.5	Identification of test Samples	Product Chemical, Proof Load Test, Stress Rupture, Tensile, Hardness, Impact, and other test as applicable	Lots as per specification	Test Reports	P	H		
3.6	Destructive Testing	Product Chemical, Proof Load Test, Stress Rupture, Mechanical Impact, and other test as applicable	Lot as per specification	Test Report	P	W		
3.7	Galvanizing (If Applicable)	Integrity Of Galvanized Coating	100%	Inspection Report	P	W		
4.0	Final Inspection							
4.1	Visual & Dimension	Visual Marking & Dimensions	100% by Supplier & Random by PMC/OWNER	Inspection Report	P	W(Note-3)		
4.2	Final Stamping	Stamping of Accepted Bolting Material	Stamping of bolting material which are witness by PMC/OWNER. Others to have suppliers Identification.	Inspection Report	P	W		
4.3	PMI Check(If applicable)	Chemical Check	As Applicable	Inspection Report	P	W		
5.0	Painting							
5.1	Rust Prevention & Color Coding (As applicable)	Visual & Color Coding as applicable	100%	Inspection Report	P	W		
6.0	Documentation & IC							
6.1	Final documents	Review of Stage Inspection report / Test Reports	100%	Supplier TC & IC	P	H	R	
6.2	Inspection release certificate	Issue of Inspection release certificate	100%	Supplier TC & IC	-	H	R	

Legend: H-Hold (Do not proceed with approval), P-Perform, RW-Random Witness (As specified or 10% (min. 1 no. of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (As applicable)

1. This document describes the generic test requirements. Any additional test or Inspection scope if specified in contract documents shall also be applicable (unless otherwise agreed upon).
2. Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in Job specification / Approved Documents.
3. Final Visual and Dimension shall be checked as per below sampling plan.



Lot Size (Nos.)	Sample Size (Minimum)
Upto 100	2% (Min. 2 Nos.)
101 to 500	1% (Min. 3 Nos.)
501 and above	0.5% (Min. 5 Nos.)

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			CLIENT	INDIAN OIL CORPORATION LIMITED				
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Annexure - 8								
INSPECTION AND TESTING REQUIREMENTS FOR STEAM TRAPS								
SL NO.	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	RECORD	SCOPE OF INSPECTION			
					SUPPLIER	CONTRACTOR/TPIA	PMC	OWNER
1.0	Procedure							
1.1	Hydrostatic Test, Heat Treatment, NDT, Helium Leak Test and other Procedures	Documented Procedures	100%	Procedure Documents	P	R		
1.2	WPS,PQR & WPQ	Welding Parameters & Qualification Record	100%	WPS, PQR & WPQ	P	R W - New		
2.0	Material Inspection							
2.1	Raw Material Inspection	Chemical, Mechanical, Heat Treatment, NDT, IGC & Other Properties as applicable	100%	Test Certificates	P	W		
3.0	In Process Inspection							
3.1	Welding	Welding Parameters as per WPS / PQR	100%	Inspection report	P	RW		
3.2	Heat Treatment	PWHT as applicable	100%	HT Chart	P	RW		
3.3	Corrosion & Metallurgical testing(If applicable)	Intergranular corrosion	Lot as per specification	Test Report	P	W		
3.4	RT As Applicable	Weld Defects	PR / Purchase Specification	RT films & Reports	P	R		
3.5	NDT As Applicable	Surface & Internal Imperfections	PR / Purchase Specification	Test Reports	P	RW		
4.0	Final Inspection							
4.1	Hydrostatic Testing	Leak Check	100%	Test Report	P	W		
4.2	Visual and Dimensional Inspection (VDI)	Surface Conditions & Dimension	100%	Inspection report	P	W (Note-3)		
4.3	PMI Check (If applicable)	Chemical Check	As Applicable	Inspection report	P	W		
4.4	Final Stamping	Stamping of Accepted traps	100%	Inspection report	P	W		
5.0	Painting							
5.1	Painting & color Coding	Visual, DFT & Color coding as applicable	100%	Inspection Report	P	W		
6.0	Documentation & IC							
6.1	Final documents	Review of Stage Inspection report / Test Reports	100%	Supplier TC & IC	P	H	R	
6.2	Inspection release certificate	Issue of Inspection release certificate	100%	Supplier TC & IC	-	H	R	

Legend: H-Hold (Do not proceed with approval), P-Perform, RW-Random Witness (As specified or 10% (min.1 no.of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (As applicable)



- This document describes the generic test requirements. Any additional test or Inspection scope if specified in contract documents shall also be applicable (unless otherwise agreed upon).
- Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in Job specification / Approved Documents.
- 100% Visual & 10% dimensional checks of each size, pressure rating and type of component at vendors' works by Third Party Inspection (TPI) and surprise checks by PMC/OWNER.

			PROJECT		Standby SRU & Additional Tanks IOCL- Paradip Refinery			
			CLIENT		INDIAN OIL CORPORATION LIMITED			
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Annexure - 9								
INSPECTION AND TESTING REQUIREMENTS FOR STRAINERS								
SL NO.	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	RECORD	SCOPE OF INSPECTION			
					SUPPLIER	CONTRACTOR/TPIA	PMC	OWNER
1.0	Procedure							
1.1	Hydrostatic Test, Heat Treatment, NDT, Helium Leak Test and other Procedures	Documented Procedures	100%	Procedure Documents	P	R		
1.2	WPS,PQR & WPQ	Welding Parameters & Qualification Record	100%	WPS, PQR & WPQ	P	W-New R-Existing		
2.0	Material Inspection							
2.1	Raw Material Inspection	Chemical, Mechanical, Heat Treatment, NDT, IGC & Other Properties as applicable	100%	Test Certificates	P	RW		
3.0	In Process Inspection							
3.1	Welding	Welding Parameters as per WPS / PQR	100%	Inspection report	P	RW		
3.2	Heat Treatment	PWHT as applicable	100%	HT Chart	P	RW		
3.3	Corrosion & Metallurgical testing(If applicable)	Intergranular corrosion	Lot as per specification	Test Report	P	W		
3.4	RT As Applicable	Weld Defects	PR / Purchase Specification	RT films & Reports	P	R		
3.5	NDT As Applicable	Surface & Internal Imperfections	PR / Purchase Specification	Test Reports	P	W		
4.0	Final Inspection							
4.1	Hydrostatic Testing	Leak Check	100%	Test Report	P	W		
4.2	Visual and Dimensional Inspection (VDI)	Surface Conditions & Dimension	100%	Inspection report	P	W (Note-4)		
4.3	PMI Check (if applicable)	Chemical Check	As Applicable	Inspection report	P	W		
4.4	Final Stamping	Stamping of Accepted strainers	Stamping of Strainers which are witnessed by PMC/OWNER	Inspection report	P	W		
5.0	Painting							
5.1	Painting & color Coding	Visual, DFT & Color coding as applicable	100%	Inspection Report	P	W		
6.0	Documentation & IC							
6.1	Final documents	Review of Stage Inspection report / Test Reports	100%	Supplier TC & IC	P	H	R	
6.2	Inspection release certificate	Issue of Inspection release certificate	100%	Supplier TC & IC	-	H	R	

Legend: H-Hold (Do not proceed with approval), P-Perform, RW-Random Witness (As specified or 10% (min.1 no.of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (As applicable)

- For Non NACE & Non Hydrogen service Strainers upto 6" 300# ANSI will be accepted on review of Supplier Test Certificates duly reviewed by TPIA.
- This document describes the generic test requirements. Any additional test or Inspection scope if specified in contract documents shall also be applicable (unless otherwise agreed upon).
- Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in Job specification / Approved Documents.
- 100% Visual & 10% dimensional checks of each size, pressure rating and type of component at vendors' works by Third Party Inspection (TPI) and surprise checks by PMC/OWNER..

			PROJECT	Standby SRU & Additional Tanks IOCL- Paradip Refinery				
			CLIENT	INDIAN OIL CORPORATION LIMITED				
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Annexure - 10								
INSPECTION AND TESTING REQUIREMENTS FOR HOSES(METALLIC) AND COUPLINGS								
SL NO.	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	RECORD	SCOPE OF INSPECTION			
					SUPPLIER	CONTRACTOR/TPIA	PMC	OWNER
1.0	Procedure							
1.1	Hydrostatic Test & NDT Procedures	Documented Procedures	100%	Procedure Documents	P	R		
1.2	WPS,PQR & WPQ	Welding Parameters & Qualification Record	100%	WPS, PQR & WPQ	P	W- For New R-Existing		
2.0	Material Inspection							
2.1	Incoming Materials (Rubber hose / SS pipe / SS wire braiding / Flanges / Coupling)	Chemical & Mechanical Properties & IGC (For SS items if applicable)	100%	Test Certificates	P	R		
3.0	In Process Inspection							
3.1	Welding	Welding Parameters as per WPS / PQR	100%	Inspection report	P	RW		
3.2	NDT As Applicable	Weld soundness	100%	Test Reports	P	RW		
4.0	Final Inspection							
4.1	Hydrostatic/Pneumatic Testing	Leak Check	100%	Test Report	P	W		
4.2	Vacuum test, Steam Resistance, Electrical Continuity and other tests as applicable	Leak & Soundness check	100%	Test Report	P	W		
4.3	Visual and Dimensional Inspection (VDI)	Surface Conditions & Dimension	100%	Inspection report	P	W (Note-3)		
4.4	PMI Check	Chemical Check	As Applicable	Inspection report	P	W		
4.5	Final Stamping	Stamping of Accepted items	100%	Inspection report	P	W		
5.0	Painting							
5.1	Painting & color Coding	Visual, DFT & Color coding as applicable	100%	Inspection Report	P	W		
6.0	Documentation & IC							
6.1	Final documents	Review of Stage Inspection report / Test Reports	100%	Supplier TC & IC	P	H	R	
6.2	Inspection release certificate	Issue of Inspection release certificate	100%	Supplier TC & IC	-	H	R	





Legend: H-Hold (Do not proceed with approval), P-Perform, RW-Random Witness (As specified or 10% (min.1 no.of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (As applicable)

- This document describes the generic test requirements. Any additional test or Inspection scope if specified in contract documents shall also be applicable (unless otherwise agreed upon).
- Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in Job specification / Approved Documents.
- 100% Visual & 10% dimensional checks of each size, pressure rating and type of component at vendors' works by Third Party Inspection (TPI) and surprise checks by PMC/OWNER.

 		PROJECT	Standby SRU & Additional Tanks IOCL- Paradip Refinery		
		CLIENT	INDIAN OIL CORPORATION LIMITED		
SPECIFICATION FOR COLOUR CODING OF PIPING MATERIALS SUPPLIED BY VENDOR	Project No. 080557C001	Document No. 080557C-000-SP-1390-009		Rev. No. A	Page 1 of 13

SPECIFICATION FOR COLOUR CODING OF PIPING MATERIALS SUPPLIED BY VENDOR

			 <small>Karthikeyan Chelladurai</small> <small>2019.10.14 12:07:46 +05'30'</small>	 <small>Subramanian Anumugam</small> <small>2019.10.14 12:09:01 +05'30'</small>	 <small>Vaidyasubramaniam V</small> <small>2019.10.14 12:17:13 +05'30'</small>	 <small>Manojkumar Manojkumar</small> <small>2019.10.15 21:10:54 +05'30'</small>
A	14-OCT-2019	ISSUED FOR DESIGN	CK	AS	VV	JM
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	AUTHORIZED

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 	PROJECT		Standby SRU & Additional Tanks IOCL- Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
SPECIFICATION FOR COLOUR CODING OF PIPING MATERIALS SUPPLIED BY VENDOR	Project No. 080557C001	Document No. 080557C-000-SP-1390-009	Rev. No. A	Page 2 of 13

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 	PROJECT	Standby SRU & Additional Tanks IOCL- Paradip Refinery		
	CLIENT	INDIAN OIL CORPORATION LIMITED		
SPECIFICATION FOR COLOUR CODING OF PIPING MATERIALS SUPPLIED BY VENDOR	Project No. 080557C001	Document No. 080557C-000-SP-1390-009	Rev. No. A	Page 3 of 13

1. **INTRODUCTION**

INDIAN OIL CORPORATION LIMITED (IOCL) has awarded Fax of Acceptance (FOA) dated 29th August 2019 to M/s. Technip India Limited (TPIL) for Consultancy services (PMC/EPCM services) for overall project management, FEED Review / FEED, Detailed Engineering, Procurement & expediting services, Tendering & award, Construction Management & Supervision, Assistance in start-up, Commissioning & performance test runs for installation of a Standby SRU of 525 TPD capacity and execution of Additional tanks for Paradip Refinery, Odisha, India.

2. **DEFINITIONS & ABBREVIATIONS**

Abbreviation	Definition /Expanded form
IOCL/ CLIENT	Indian Oil Corporation Limited
PMC/ CONSULTANT	Technip India Limited
LICENSOR	Party selected by IOCL for process technology ownership for any UNIT
CONTRACTOR	Party whose services are obtained for performing the works specified as part of LSTK / packages.
EPCM	Engineering, Procurement & Construction Management Services.
LSTK	Lump Sum Turn Key portion of the work to be executed by CONTRACTOR
FEED	Front End Engineering Design
AUTHORISED REPRESENTATIVE	IOCL's/ CONSULTANT's representative authorized to act for and on behalf of them.
VENDOR	Any third party supplying the equipment/materials for setting up the Plant
PROJECT	Indicates Standby SRU and Additional tanks Project, Paradip Refinery
UNIT	Indicates any particular portion of the project to be built which can be Process related or Utilities/Offsites related

 	PROJECT		Standby SRU & Additional Tanks IOCL- Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
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SRU	Sulphur Recovery Unit
OISD	Oil Industry Safety Directorate
ASME	American Society of Mechanical Engineers
API	American Petroleum Institute
P&ID	Piping and Instrumentation Diagram
A/G	Above Ground
U/G	Under Ground
B/L	Battery Limit
ISBL	Inside Battery Limit
EOT	Electrically-operated Overhead Travelling
MTO	Material Take Off


3. **SCOPE**

The specification defines the method of identification of the various piping raw materials by colouring using paints so as to avoid mix-up between materials of different metallurgy / grades, but which are similar in physical appearance.

4. **REFERENCE CODES & STANDARDS**

The following BIS Code and relevant purchase specification shall be referred

- ASME A13.1: Scheme for the Identification of Piping Systems
- PFI ES-22: Recommended Practice for Color Coding of Piping Materials
- IS: 5-2007: Specification of Colours for Ready Mixed Paints and Enamels
- IS 2379: Colour code for identification of pipe lines - Includes Amendment 1
- Purchase Specification (For Pipes, Fittings, Flanges, Gaskets, Fasteners)

 	PROJECT		Standby SRU & Additional Tanks IOCL- Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
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5. GUIDELINES FOR IDENTIFICATION BY COLOUR CODING

Materials shall be painted with one colour or combination of colours as set out in this specification.

Paints used for colour coding shall be of quality so as to last for at least 5 years.

Colour identification is not required on galvanized-materials and non-ferrous metals such as copper, lead, bronze, aluminium because these can be distinguished by their specific colour and characters.

One strip of water-proof paint / ink shall be provided for each valve according to colour table-2. Strip location shall be on the edge of flange ends, or on bonnet/body connection. In addition, all IBR valves shall be painted red in body-bonnet / body-cover joint. Any other Special items (SP Items) like bellows, strainer, sight glasses, steam traps, hose, hose couplings, corrosion coupons etc. do not require colour Identification as these items are also tagged with their identification.

Discrimination colour shall be marked on the inner and outer surface of pipes & fittings.

The length of inner surface painting

- Shall be not less than 4 inch (100 mm) at both ends of pipes.
- Shall be about 2 inch (50 mm) at any one end of fittings.

6. IDENTIFICATION COLOURS

Paint colours to be used for identification shall be in accordance with Table-1.

Application of various colours for identification shall be as per colour coding defined in this specification.

7. METHOD OF COLOUR CODING

All pieces shall be marked with a stripe of water-proof / ink in accordance with the colour code specification.

Colours and locations of colour identification on pipes, fittings, flanges, Gaskets, studs / bolts, nuts shall be in accordance with Table -2 to 4 and Annexure-1.

The identification colour on gaskets shall be painted on the peripheral face of each gasket (refer Annexure-1).

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Weld ends, Machined surfaces shall not be painted.

Width of colour band shall be a minimum of 6 mm for 2.5" and smaller size components, and 25 mm for 3" and larger size ones, unless otherwise specified.

Wherever combination of two or more colours is specified, materials shall be Painted in parallel colour bands as close to each other as possible (Refer Annexure-1).

Paints containing chlorine, chlorides, sulphur, lead, zinc or any contents detrimental to materials are not acceptable. The contractor shall satisfy and produce documents / carry out tests as required by the owner.

A query shall be raised with Owner for materials not covered by this specification.

If continuous stencilling of material specification is available then colour coding on stainless steel material may be avoided.

8. APPLICABLE TABLES

Table No. Titles

- | | |
|---|---|
| 1 | Basic colour of identification |
| 2 | Colour identification on pipes, fitting, flanges and valves |
| 3 | Colour identification on Bolts / Nuts / studs |
| 4 | Colour identification on Gaskets |

Annexure-1: Schematic representation of colour identification


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TABLE -1
BASIC COLOURS FOR IDENTIFICATION (IS: 5 - 2007)
(Approximate Munsell Value Reference)

Name of Colour	Sl. No.	Indian colour (ISC)	Munsell Value		Equivalent RAL Number
			Hue	Value/Chroma	
Dove Grey	100	694	2.3G	5.53/0.48	7005
Salmon Pink	68	443	2.5YR	6.31/4.7	3022
India Brown	65	415	2.7YR	3.76/3.02	8016
Canary yellow	39	309	4.8Y	7.89/11.02	1012
Deep orange	87	591	8.9R	5.04/10.38	2011
Lincoln Green	27	276	0.3G	3.53/2.81	6009
Sea Green	14	217	6.2GY	6.12/6.15	6018
Sky Blue	1	101	8.3G	60.09/2.86	5015
Navy Blue	6	106	6.2PB	2.61/0.95	5014
Light Purple Brown	73	449	3.2R	3.07/2.14	8025
Dark Violet	104	796	6.1P	3.5/4.27	4005
Chocolate	74	451	3.5YR	2.82/0.67	8017
Maroon	83	541	1.3R	2.9/1.36	3005
Post Office Red	81	538	4.2R	3.55/8.39	3002
Satin Blue	12	177	2.8B	7.4/3.17	5012
Grass Green	15	218	8.2GY	4.65/5.52	6010
Olive Green	17	220	6.0GY	3.44/2.17	6003
Silver Grey	89	628	1.5GY	5.96/1.59	7001
Crimson	82	540	2.9R	2.95/3.96	3018
Traffic Green	25	267	2.5G	3.73/3.79	6024
Beige	58	388	0.9Y	7.2/3.73	1001



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TABLE – 2
COLOUR CODES FOR PIPES, FITTINGS, FLANGES & VALVES

Pipe	Elbows, Reducers, Tee's Caps	Flange/Blind Flange / Valves	Sl. No.	Indian Std. Colour (ISC) No.	Colour Shades
	A 234 Gr. WPB	A-182	—	—	None
	A 234Gr. WPBW	A-105	—	—	None
API 5L GR B - SMLS	—	—	—	—	None
API 5L Gr. B- EFSW	—	—	—	—	None
API 5L Gr.B- ERW	—	—	6/65	106/415	Navy Blue & India Brown
A 106 Gr. B & A672	A 234 Gr. WPB	A105N / A 216 Gr.WCB	87	591	Deep Orange
A 106 Gr. B (Normalized)	A 234 Gr WPB (N)	A105N / A 216 Gr.WCB	87/14	591/217	Deep Orange & Sea Green
	A 234 Gr. WPBW (N)		87/14	591/217	Deep Orange & Sea Green
IS1239 / IS3589 Gr.410			73	449	Light Purple Brown
IS 3589 Gr. 330			73/6	449/106	Light Purple Brown & Navy Blue
A 333 Gr. 6 & A671	A 420 Gr. WPL 6	A350 Gr.LF2 / A352 Gr.LCB	83	541	Maroon
	A 420 Gr. WPL 6W		83	541	Maroon
A 335 Gr. P11	A 234 Gr. WP11	A182 Gr.F11/	27	276	Lincoln Green
A 691 Gr.1.25 Cr. CL.42 (EFW)	A 234 Gr.WP11W	A182 Gr.F11/ A216 Gr.WC6	27	276	Lincoln Green

NOTE For Sl. No. refer Table-1

- For Hydrogen service, white colour band shall be applied in addition to above

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- For IBR material, Post Office red shall be applied in addition to above.
- For NACE material, Canary Yellow shall be applied in addition to above.
- For NACE+HIC material, Dark Brown shall be applied in addition to above.

TABLE - 2
COLOUR CODES FOR PIPES, FITTINGS, FLANGES & VALVES (....Contd.)

Pipe	Elbows, Reducers, Tee's Caps	Flange/ Blind Flange / Valves	Sl. No.	Indian Std. Colour (ISC) No.	Colour Shades
A 335 Gr. P22	A 234 Gr.WP22	A 182Gr. F22 / A217 Gr.WC9	14	217	Sea Green
A 691 Gr. 2.25 Cr. CL.42 (EFW)	A 234 Gr.WP22W	A 182Gr. F22 / A217 Gr.WC9	14	217	Sea Green
A 335 Gr. P5	A 234 Gr.WP5	A 182 Gr.F5	6	106	Navy Blue
	A 234 Gr.WP5W	—	6	106	Navy Blue
A 335 Gr. P91	A 234 Gr. WP91	A 182 Gr. F91	104	796	Dark Violet
A691 Gr.P91	A 234 Gr.WP91W	A 182 Gr. F91	104	796	Dark Violet
B622 UNS N10276	B366 WPHC276	B564 UNS N10276/ A494 Gr.CW12MW	68	443	Salomon Pink
B165 UNS N0440	B366 Gr.WPNC	B564 UNS N04400 / A494 Gr.M35-	39	309	Canary Yellow
B423 UNS N08825	B366 Gr.WPNICM	B564 UNS N08825 / A494 Gr.CU5MCuC	58	388	Beige
A 312 Gr.304/304L A 358 Gr.304/304L	A403 Gr.304/304L	A 182 Gr.F304/304L	12	177	Satin Blue
A 312 Gr.316/316L A 312 Gr.316/316L	A403 Gr.316/316L	A 182 Gr.F316/316L	15	218	Grass Green
A 312 Gr.321	A403 Gr.321	A 182 Gr.F321	17	220	Olive Green
A 312 Gr.347	A403 Gr.347	A 182 Gr.F347	87	591	Deep Orange

NOTE: For schematic representation, Refer Annexure-1

For Sl. No. refer Table-1


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TABLE - 3
COLOUR CODE (POWDER COATING) – STUDS / BOLTS AND NUTS

Bolts / Nuts	ASTM STD.	SL. NO	Indian Std. Colour (ISC) No.	Colour Shades
Bolt	A 193 Gr. B7	—	—	Canary Yellow
Nut	A 194 Gr. 2H	—	—	Canary Yellow
Bolt	A 307 Gr. B	65	415	India Brown
Nut	A 307 Gr.B	65	415	India Brown
Bolt	A 193 Gr. B16	27	276	Lincoln Green
Nut	A 194 Gr. 4	27	276	Lincoln Green
Bolt	A 320 Gr. L7	82	540	Crimson
Bolt	A 320 Gr. B 8	87	591	Deep Orange
Nut	A 194 Gr. 8	87	591	Deep Orange

NOTE : For schematic representation, Refer Annexure-1

For Sl. No. refer Table-1




 	PROJECT		Standby SRU & Additional Tanks IOCL- Paradip Refinery	
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TABLE - 4
COLOUR CODE FOR GASKETS

Gasket Type	ASTM code / Description	SL. NO.	Indian STD. Colour (ISC) NO.	Colour Shades
Comp. Natural Fibre (Ring)	IS 2712 W /1 (Full Face)	100	694	Dove Grey
	IS 2712 Gr. 0 / 1 (Ring)	-	-	None
	IS 2712 Gr. W / 3 (Ring)	1	101	Sky Blue
	IS 2712 Gr. A / 1 (Ring)	14	217	Sea Green
	Teflon Jacketed Asbestos (Ring)	74	451	Chocolate
Spiral Wound	SS 304 SPR WND + CA Filler	6	106	Navy Blue
	SS 304 H + Grafoil Filler	68	443	Salmon Pink
	SS 304 + Grafoil Filler (Cryo)	73	449	Light Purple
	SS 304 + Teflon Filler	65	415	Brown
	SS 304 L SPR WND + CA Filler	83	541	India Brown
	SS 316 SPRWND + CA Filler	87	591	Maroon
	SS 316 L SPR. WND + CA Filler	27	276	Deep Orange
	SS 316 H SPR. WND + Grafoil Filler	39	309	Lincoln Green
	Teflon Jacketed SPR. WND Asbestos	104	796	Canary Yellow
Octagonal Ring Gasket	5 Cr, 1/2 Mo (Max. 120 BHN)	25	267	Traffic Green
	Soft Iron (Max. 90 BHN)	89	628	Silver Grey

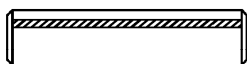
NOTE: For schematic representation, Refer Annexure-1

 	PROJECT	Standby SRU & Additional Tanks IOCL- Paradip Refinery		
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ANNEXURE – 1

SCHEMATIC REPRESENTATION OF COLOUR IDENTIFICATION

A. COLOUR IDENTIFICATION OF PIPES

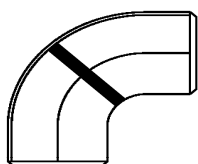


ONE COLOUR



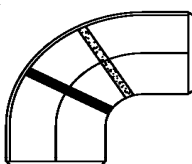
TWO COLOUR

B. COLOUR IDENTIFICATION OF FITTINGS

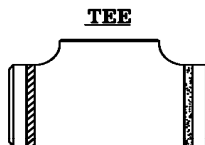


ONE COLOUR

ELBOW

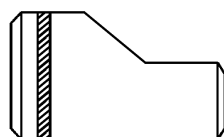


TWO COLOUR



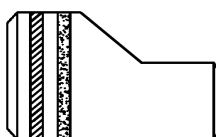
TEE

ONE OR TWO COLOUR(S)

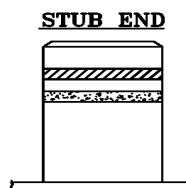


ONE COLOUR

REDUCER

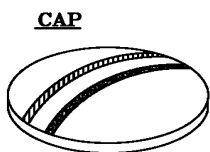


TWO COLOUR



STUB END

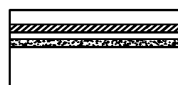
ONE OR TWO COLOUR(S)





CAP

ONE OR TWO COLOUR(S)

COUPLING

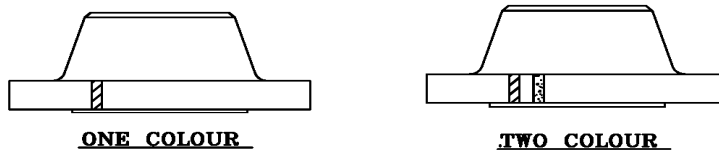


ONE OR TWO COLOUR(S)

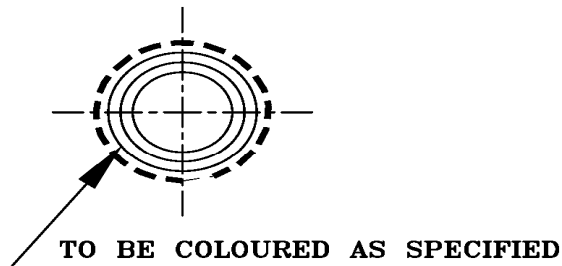
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SCHEMATIC REPRESENTATION OF COLOUR IDENTIFICATION

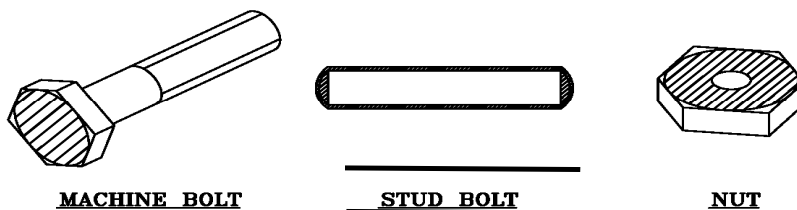
C. COLOUR IDENTIFICATION OF FLANGES





D. COLOUR IDENTIFICATION OF GASKET







E. COLOUR IDENTIFICATION OF STUD/BOLTS & NUTS



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SPECIFICATION FOR PAINTING

Page modified under this revision: Page number 11

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C	11-JUNE-2020	ISSUED FOR DESIGN	CK	AS/SL	VV	JMC
B	06-DEC-2019	ISSUED FOR DESIGN	CK	AS	VV	JM
A	14-OCT-2019	ISSUED FOR DESIGN	CK	AS	VV	JM
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	AUTHORIZED

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1. INTRODUCTION

INDIAN OIL CORPORATION LIMITED (IOCL) has awarded Fax of Acceptance (FOA) dated 29th August 2019 to M/s. Technip India Limited (TPIL) for Consultancy services (PMC/EPCM services) for overall project management, FEED Review / FEED, Detailed Engineering, Procurement & expediting services, Tendering & award, Construction Management & Supervision, Assistance in start-up, Commissioning & performance test runs for installation of a Standby SRU of 525 TPD capacity and execution of Additional tanks for Paradip Refinery, Odisha, India.

2. DEFINITIONS & ABBREVIATIONS

Abbreviation	Definition /Expanded form
IOCL/ CLIENT	Indian Oil Corporation Limited
PMC/ CONSULTANT	Technip India Limited
LICENSOR	Party selected by IOCL for process technology ownership for any UNIT
CONTRACTOR	Party whose services are obtained for performing the works specified as part of LSTK / packages.
EPCM	Engineering, Procurement & Construction Management Services.
LSTK	Lump Sum Turn Key portion of the work to be executed by CONTRACTOR
FEED	Front End Engineering Design
AUTHORISED REPRESENTATIVE	IOCL's/ CONSULTANT's representative authorized to act for and on behalf of them.
VENDOR	Any third party supplying the equipment/materials for setting up the Plant
PROJECT	Indicates Standby SRU and Additional tanks Project, Paradip Refinery
UNIT	Indicates any particular portion of the project to be built which can be Process related or Utilities/Offsites related

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SRU	Sulphur Recovery Unit
OISD	Oil Industry Safety Directorate
ASME	American Society of Mechanical Engineers
API	American Petroleum Institute
P&ID	Piping and Instrumentation Diagram
A/G	Above Ground
U/G	Under Ground
B/L	Battery Limit
ISBL	Inside Battery Limit
EOT	Electrically-operated Overhead Travelling
MTO	Material Take Off

3. **SCOPE**

This specification defines the requirements of surface preparation, selection and application of paints and primers for all piping, equipment and structures etc.

The specification is applicable for supply of all paints, coatings, primers and other ancillary items etc. Method of surface preparation, supply and application of paints and primers shall suit given environment, location and temperature. Items requiring painting, field application procedures, inspection and testing of painting shall be governed by this specification.

This specification is suitable for use in normal, corrosive and marine environment of various process, utility and other plants and offsite of refineries, petro-chemicals, onshore terminals and other chemical / industrial plants. Alternative paints / coatings would be specified if necessary for specific or more stringent requirements.

The painting specification covers every type of equipment such as tanks, vessels, drums, heat exchangers/ coolers, air fin coolers, pumps, turbines, compressors, filters, engines, motors, boilers or heaters /furnaces their accessories, fans, stacks / chimney and package units etc.

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The painting specification covers all types of process and utility piping services which can be non-insulated / insulated, jacketed or lined requiring painting. All types of pipe supports, hangers, spring boxes are also covered.

All types of structural steel members, platforms ladders, chequered plates, gratings, walkways, trolleys, monorails, davits, structural steel sheds and buildings are also covered under this painting specification.

The painting of equipment shall conform to equipment data sheets. Painting of piping shall conform to line schedule and piping isometrics etc.

4. **TERMINOLOGY**

MR	Material Requisition
PR	Purchase Requisition
PO	Purchase Order
CS	Carbon steel
LTCS	Low Temp. Carbon Steel
AS	Alloy Steel
SS	Stainless steel
MS	Mild Steel
GI.	Galvanized Iron / steel
ITP	Inspection Test Plan
TPI	Third Party Inspection
DFT	Dry Film Thickness
WFT	Wet Film Thickness
TSAC	Thermally Sprayed Aluminium Coating
Micr.	Micron

5. **EXCLUSIONS**

The following surfaces and materials shall not require painting in general. However, if there is any specific requirement by the owner, the same shall be painted as per the relevant specifications:

- Plastics and or plastic coated surfaces
- Non-ferrous materials like Aluminum, Cu-Ni alloy, Monel, Incoloy
- RCC or cement lined surfaces except those specified
- Gaskets / seals



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- Gauge Glasses
- Meter Faces
- Valve Stem and Threads
- Name Plates
- Insulation or Fireproofing
- Factory Finished Control Panels
- Factory Finished Instrument Cases and Meters


6. REFERENCE CODES & STANDARDS

The following codes shall be applicable, however purchaser may specify any other relevant code for any purpose at any time. The codes latest edition as on date of issue of material requisition shall be applicable.

Code /Std. No	Description
IS: 5	Colours for ready mixed paints and enamels
IS: 101	Methods of test for ready mixed paints and enamels
IS: 2379	Indian Standard for Pipe line identification-colour code
ISO 209	Aluminium and aluminium alloys Chemical composition
ISO 8501-01	Preparation of steel substrates before application of paints and related products - Visual assessment of surface cleanliness
ISO 8502-3 & 9	Preparation of steel substrates before application of paints and related products - Test for assessment of surface cleanliness : Field method for conductometric determination of water soluble salts
ISO12944	Corrosion Protection of steel Structures by Protective Paint System
ASTM E3	Metallographic Examinations
ASTM VOL 6.01 & 6.03	American standard test methods for Paints and Coatings.
ASTM B833	Standard Specification for Zinc and Zinc Alloy Wire for Thermal Spraying (Metallizing) for the Corrosion Protection of Steel , corrosion protection
ASTM C633	Test Method for Adhesive / Cohesive Strength of Flame Sprayed Coatings.

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ASTM D4285	Method for indicating Oil or Water in Compressed Air.
ASTM D4417	Test Method for Field Measurement of Surface Profile of Blasted Steel.
ASTM D4541	Test method for Pull-Off Strength of Coating using Portable Adhesion Testers.
ASTM D4940	Standard Test Method for Conductimetric Analysis of Water Soluble Ionic Contamination of Blasting Abrasives.
ASTM D6677	Standard Test Method for Evaluating Adhesion by Knife1
ANSI A13.1	Scheme for identification of piping systems: American National Standards Institution
ANSI/AWS C2.18	Guide for the Protection of Steel with Thermal Spray Coatings of Aluminium, Zinc and Their Alloys and Composites.
AWS C.2.17	Recommended Practice for Electric Arc Spray.
SSPC-SP	Steel Structures Painting Council
SSPC Publication	The inspection of coatings and linings: A Handbook of Basic practice for Inspectors, Owners, and Specifiers.
SSPC-AB 1	Mineral and Slag Abrasives.
SSPC-AB 3	Ferrous Metallic Abrasives.
SSPC-PA 1	Shop, Field, and Maintenance Painting of Steel.
SSPC-PA 2	Measurement of Dry Coating Thickness with Magnetic Gages.
NACE No. 1 / SSPC-SP 5	White Metal Blast Cleaning.
NACE No. 2 / SSPC-SP 10	Near -White Metal Blast Cleaning.
SSPC-VIS 1	Guide and Reference Photographs for Steel Surfaces Prepared by Dry Abrasive Blast Cleaning.
RAL DUTCH	International Standard for color shade (Dutch Standard)
SIS-05 59 00	Pictorial surface preparation standard for painting of steel surfaces
BS1475	Specification for Wrought Aluminium & Aluminium Alloys for General Engineering Purposes.
BS 2569	Specification for Sprayed Metal Coating.
BS 4232	British Standards (Surface Finish of Blast-cleaned Steel for Painting
NACE Std. RP 0287	Field Measurement of Surface Profile of Abrasive Blast Cleaned Steel Surfaces Using a Replica Tape.

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NACE No.12 / AWS C2.23 M / SSPC-CS 23.00	Specification for the application of thermal spray coatings (Metallizing) of aluminium, zinc, and their alloys and composites for the corrosion protection of steel.
NACE RP 198	The control of corrosion under Thermal Insulation and Fireproofing Materials

ISO 8501-1/ SIS-05 59 00: ISO standard for preparation of steel substrates before application of paints and related products. This standard contains photographs of the various standards on four different degrees of rusted steel and as such is preferable for inspection purpose by the Engineer in charge.

The Contractor shall arrange, at his own cost, to keep a set of latest edition of above standards and codes at site.

The Contractor shall perform the work in accordance with the following reference documents issued to him for execution of painting works.

- Bill of quantities for piping, equipment, machinery and structures etc
- Piping Line List
- Specifications for Painting
- Any Specific requirements from client


7. **GENERAL REQUIREMENTS**

- This specification shall govern all works covered by the contract, and without prejudice to the provisions of various Indian and international codes of practice, standard specifications etc. The Contractor shall carry out the works in all respects with the best quality of materials and workmanship and in accordance with the best engineering practices and instructions of Owner / Engineer in charge.
- All tools, brushes, rollers, spray guns, blast material, hand power tools for cleaning and all equipment, scaffolding materials, shot / sand blasting equipment and air compressors etc. required to be used shall be suitable for the work and all in good order and shall be arranged by the Contractor at site and in sufficient quantity.
- The compressed air supply used for blasting shall be free of water and oil. Adequate separators and traps shall be provided and these shall be drained continuously. Pressure Gauges fitted to compressor shall be calibrated with necessary certificate.
- Blast cleaning equipment shall be in accordance with all applicable regulations. The spraying equipment to be used shall meet the recommendations and instructions set forth by the paint supplier for each specific paint or coating system.
- All mechanical equipment shall be earthed and all necessary precautions shall be taken to prevent the build-up of static electricity. Especially blasting equipment, its operators and the equipment being blasted shall be properly earthed to prevent the occurrence of electro-

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static discharges


- Mechanical mixing shall be used for paint mixing operations in case of two pack systems except that the Engineer in charge may allow the hand mixing of small quantities at his discretion.
- All painting materials and ancillary materials needed for completion of the contract shall conform to the prescribed specifications. Contractor shall procure these materials from specified manufacturers or their stockiest with proper marking and identification as proof of original materials.
- Any sub-standard or duplicate materials or lower grade/ brand materials shall not be used. Owner / Engineer in charge shall have the right to reject all such materials at any stage. Contractor shall seek prior approval from Owner before actual application to avoid rejection of works carried out with such sub-standard materials.
- The Contractor shall bring to the notice of Owner any discrepancy between this specification and codes specified herein. Contractor may request Owner for clarification of any of the applicable clause of this specification or about applicability of a particular painting system for any service / surface. Any deviation from this specification pertaining to supply or application without written permission of Owner shall be rejected by Engineer in charge.
- The items listed in the paint systems is indicative only, however Engineer in charge may decide about the applicability of the paint system for any of the works.
- The Contractor shall ensure all safety and protective apparatus are fully provided to their staffs.
- The contractor shall be fully responsible for carrying out all the necessary painting, coating and lining on external and internal surfaces as per the tender requirement.
- The paint manufacturer's instructions shall be followed as far as practicable at all times for best results. Particular attention shall be paid to the following:
 - Instructions for storage to avoid exposure as well as extremes of temperature.
 - Surface preparation prior to painting shall be followed as per the specification.
 - Mixing and thinning.
- Paint manufacturers shall furnish the characteristics of all paints materials on original printed literature, along with the test certificate for all specified characteristics given in this specification. All the paint materials shall be of first quality and conform to the general characteristics described in various tables.
- Contractor shall fully comply with the client specification for Colour Coding of Piping, Equipment and Structures issued during EPC stage of the project. This specification covers colour codes, identification marking on piping and equipment, recommended colours for paint systems and painting for "Civil Defence" requirements etc.
- Contractor shall ensure that the paint material supplied are fully within the validity period of the product and not exposed to open atmosphere.

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8. EXTENT OF PAINTING

The following surfaces and materials shall require shop, pre-erection and field painting:

- All Non-insulated carbon steel and alloy steel piping as described under scope Including valves, flanges, fittings, specialty items, in line items, and all supports (including painting of identification marks), flare lines ,furnace ducts and stacks.
- Titanium catalyzed inorganic copolymer can be used commonly for all valves.
- All insulated parts of vessels, boilers, chimneys, stacks, piping and steam piping, and any other insulated items present.
- All items contained in a package unit requiring painting.
- All types of structural steel members, platforms ladders, chequered plates, gratings, walkways, trolleys, monorails, davits, structural steel sheds and buildings are also covered under this painting specification.
- External surfaces of MS chimney with or without refractory lining and internal surfaces of MS chimney without refractory lining. (If present)
- Representation of colour bands on all piping including insulated aluminum clad, galvanized, SS and nonferrous piping.
- Identification lettering / numbering on all painted surfaces of equipment / piping insulated aluminum clad, galvanized SS and non-ferrous piping.
- Marking / identification signs on painted surfaces of equipment / piping including hazardous service.
- Supply of all primers, paints and all other materials required for painting (other than Owner supplied materials)
- Metal Area over which insulation surface of equipment and pipes wherever required.
- Painting under insulation for carbon steel, alloy steel and stainless steel as per relevant NACE RP 198 to prevent corrosion.
- Painting of pre-erection / fabrication and Shop primer.
- Repair work of damaged pre-erection / fabrication and shop primer and weld joints in the field / site before and after erection as required.

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- All CS Piping, equipment, storage tanks and internal surfaces of RCC tanks in ETP plant.
- Quality control, testing and inspection during all stages of work (surface preparation, application of coating and testing of furnished coating).

9. **SURFACE PREPARATION**

Any one of following methods of surface preparation shall be followed, depending on condition of surface to be painted and as approved or instructed by Engineer in charge.


- Manual or hand tool cleaning
- Mechanical or power tool cleaning
- Dry abrasive blast cleaning

Before blasting salt contamination test to be carried out for metals & Testing for chloride and soluble salt concentrations and the pH level shall be done using a Bresle Sampler according to ISO 8502-6. The chloride and soluble salt concentrations shall be less than 20 mg/ m² and the pH shall be neutral (between 6 and 8). When these levels are exceeded, the surfaces shall be either steam cleaned or high pressure water washed as per SSPC SP1 or ISO 12944 before abrasive blasting. The cleaned surface shall be retested to verify that the contaminant levels are within the acceptable range. Checks shall be done on each component at least once per 200 m² of blasted surface and a minimum of 3 checks per shift. The test report shall be maintained recording the ambient and substrate temperature, relative humidity, abrasive medium, test obtained valves etc., Measuring device shall be regularly calibrated.

9.1 **Surface Finish Requirements:**

- When surface is exposed to normal atmospheric conditions and where other methods cannot be adopted. May also be used for spot cleaning during maintenance.
 - Solvent Cleaning to SSPC - SP1. Remove oil, grease or wax with a suitable solvent/degreaser (Non-Chloride solvent to be used on SS substrate)
 - Manual or hand tool cleaning to: SSPC-SP-2 or ST.2 Level

Remove loose rust / mill scale / loose paint thoroughly by chipping, scrapping, sanding and or wire brushing. Finished surface shall have a faint metallic

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sheen.

- Mechanical or power tool cleaning to SSPC-SP-3 or ST.3 Level

Remove loose rust / mill scale / loose paint to degree specified by power tool chipping, de-scaling, sanding, wire brushing and grinding, after removal of dust, surface should have a pronounced metallic sheen.

Care to be taken where the welding / riveting portion of the joints.

- **Dry abrasive Blast cleaning:**

There are four different methods of dry abrasive blast cleaning as described below. Each method shall be selected depending on surface finish required for particular paint system. However Engineer in charge may instruct about any of the system to be followed for a particular job / item as deem necessary.

- White metal to SSPC-SP-5 or SA.3 or NACE #1 Level

Remove all visible rust / Mill scale / paint and foreign matter 100% to achieve desired surface profile with blast cleaning to white metal cleanliness in order to achieve extremely clean surface for prolonged life of paint system.

- Near white metal to SSPC-SP-10 or SA.2 ½ or NACE # 2 Level


Blast clean to near white metal cleanliness until at least 95% of each element of surface area is free of all visible residues with desired surface profile in order to have minimum acceptable clean surface. This is the minimum requirement for chemically resistant paint systems such as epoxy, vinyl, polyurethane based and inorganic zinc silicate paints, also for conventional paint systems used under fairly corrosive conditions to obtain desired life of paint system.

- Commercial Blast to SSPC-SP-7 or SA.2 or NACE # 3 Level

Blast clean until at least two-third of each element of surface area is free of all visible residues with desired surface profile. Used for steel required to be painted with conventional paints for exposure to mildly corrosive atmosphere for longer life of the paint systems.

- Brush-off Blast to SSPC-SP-7 or SA.1 or NACE # 4 Level

Blast cleaning to white metal cleanliness, removal of all visible rust, mill scale, paint and foreign matter where surface profile is not so important

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9.2 Equipment surface Preparation:

- All tools, brushes, rollers, spray guns, blast material, hand power tools for cleaning and all equipment, scaffolding materials, shot & grit blasting equipment and air compressors etc. required to be used shall be suitable for the work and all in good order and shall be arranged by the Contractor at site and in sufficient quantity. The manufacturer's test certificates & data sheets for all the above items shall be reviewed by Engineer in charge at site before start of work.
- Mechanical mixer shall be used for paint mixing operations in case of two pack systems except that the Engineer in charge may allow the hand mixing of small quantities at his discretion in case of specific requirement for touch up work only.
- Mill scale, rust, rust scale and foreign matter shall be removed fully to ensure that a clean and dry surface is obtained. The minimum acceptable standard, in case of thermally sprayed metal coatings, in case of mechanical or power tool cleaning it shall be St. 3 or equivalent. In case of blast cleaning it shall be Sa 2-1/2 as per Swedish Standard SIS-055900 or SSPC-SP or ISO 8501-01. Blast cleaning shall be Sa 3 as per Swedish Standard in case thermally sprayed metal coatings.
- Before surface preparation by blast cleaning, the surface shall be degreased by aromatic solvent to remove all grease, oil etc.



9.3 Use of Dehumidifiers:

- Blast cleaning shall not be performed for internal or external surface, where dust can contaminate surfaces undergoing such cleaning or during humid weather conditions having humidity exceed 85%. In case of internal coating of storage tanks, dehumidifier shall be used, to control humidity level below 60%. Dehumidifier should depress the dew point of air in the enclosed space, enough to maintain it 3°C below the metal substrate temperature during entire period of blasting and coating application. During the interval time between application of primer coat and subsequent intermediate and top coats or between blast cleaning completion and start of application of primer coat,

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dehumidifier unit should be in continuous operation to ensure that no condensation occurs on substrate.

- Dehumidifier should be able to maintain grain drop (moisture removal) at the rate of 25 grains per pound of air per hour. Dehumidifier should have capacity of at least 2 air changes per hour of the enclosed space. All necessary psychometric data should be collected by contractor for the given site conditions before starting operation of dehumidifier to ensure that desired values of dew point, moisture content in enclosed scope is achieved.
- Dehumidification shall be maintained round the clock for surface preparation and painting till the total coating application is over.
- Dehumidifier shall not be stopped under any condition till the entire blasted surface is primed to the satisfaction of the technical representative of the paint manufacturer interested with quality assurance for the work. In case the dehumidifier breaks down in middle of the job, the same shall be replaced at the risk and the cost of the contractor and the entire unfinished work shall be repeated.
- The Engineer in charge shall have the right to disallow usage of dehumidifier if the performance is not meeting the specified requirements. Under such circumstances the contractor shall remove the equipment and replace the same with another equipment to provide satisfactory results without any additional cost to the owner.
- Irrespective of the method of surface preparation, the first coat of primer must be applied by airless spray / air assisted conventional spray if recommended by the paint manufacturer on dry surface. This should be done immediately and in any case within 4 hours of cleaning of surface. However, at times of unfavourable weather conditions, the Engineer in charge shall have the liberty to control the time period, at his sole discretion and/or to insist on recleaning, as may be required, before primer application is taken up. In general, during unfavourable weather conditions, blasting and painting shall be avoided as far as practicable.
- The external surface of R.C.C. chimney stack to be painted shall be dry and clean. Any loose particle of sand, cement, aggregate etc. shall be removed by scrubbing with soft wire brush. Acid etching with 10-15% HCL solution for about 15 minutes shall be carried and surface must be thoroughly washed with water to remove acid & loose particles and then dried completely before application of paint.

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9.4 Air Blast Cleaning with abrasives:

- The surfaces shall be blast cleaned using one of the abrasives like angular chilled cast iron or steel grit, copper slag or Nickel slag, Al_2O_3 particles at pressure of 7 kg/cm² at an appropriate distance and angle depending of nozzle size maintaining constant velocity and pressure.
- Chilled cast iron or steel shall be in the form of shot or grit of size in the range of G 16 - G42 conforming to SSPC AB1 and S250 grade size of steel shots (maximum) to obtain a desired surface profile of 35-50 microns trough to peak. For all other abrasives, size shall be in the range of G16 -G24. The combination of steel grits and shots shall be normally in the ratio of 3 : 1 . The quality of abrasives shall be free from contaminants and impurities and shall meet the requirements of SSPC AB1.
- Compressed air shall be free from moisture and oil. The blasting nozzles should be venturi style with tungsten carbide or boron carbide as the materials for liners. Nozzles orifice may vary from 3/16" to 3/4". On completion of blasting operation, the blasted surface shall be clean and free from any scale or rust and must show a grey white metallic luster. Primer / first coat of paint shall be applied within 4 hours of surface preparation. Blast cleaning shall not be done outdoors in bad weather without adequate protection or when there is dew on the metal, which is to be cleaned. Surface profile shall be uniform to provide good key to the paint adhesion (i.e. 35 to 50 microns). If possible vacuum collector shall be installed for collecting the abrasives and recycling.

9.5 Mechanical or Power Tool Cleaning:

Power tool cleaning shall be done by mechanical striking tools, chipping hammers, grinding wheels or rotating steel wire- brushes. Excessive burnish of surface shall be avoided as it can reduce paint adhesion. On completion of cleaning, the detached rust mill scale etc. shall be removed by clean rags and /or washed by water or steam and thoroughly dried with compressed air jet before application of paint.


9.6 Non-Compatible Shop Coat Primer:

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- For equipment on which application of total protective coating (Primer+ Intermediate + top coat) is carried out at shop, compatibility of finish coat with primer should be checked with paint manufacturer. Specific duration mentioned in the manufacturer specification shall be fully If the shop coat is in satisfactory condition showing no major defect upon arrival at site, the shop coat shall not be removed.
- Shop coated equipment (coated with Primer & finishing coat) should not be repainted unless paint is damaged. Repair shall be carried out as per **Table 10.2** of paint systems depending upon compatibility of paint.
- Shop primed equipment and surfaces will only be 'spot cleaned' in damaged areas by means of power tool brush cleaning or hand tool cleaning and then spot primed before applying one coat of field primer unless otherwise specified. If shop primer is not compatible with field primer then shop coated primer should be completely removed before application of selected paint system for particular environment.
- For Package units/equipment, shop primer should be as per the paint system given in this specification. However, manufacturer's standard can be followed after review.
- Coating application at field (field primer, intermediate and top coat) on equipment, structures, piping, etc. shall be carried out only after its erection and all welding, testing, steam purging (wherever carried out) have been completed.

10. **COATING PROCEDURE & APPLICATION**


- All paint coatings shall be applied by airless spray excepting at the following special cases where application can be carried out by brush subject to suitability of the application of the paint product by brush.
 - Spot repair
 - Stripe coating on edges
 - Small bore parts not suitable for spray application
- Irregular surfaces such as sharp edges, welds, small brackets, and interstices may stripe coated to ensure specified DFT is achieved. Paint manufacture's recommendation should be followed before deciding for brush application.

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- Surface shall not be coated in rain, wind or in environment where injurious airborne elements exists, when the steel surface temperature is less than 5°F above dew point when the relative humidity is greater than 85% or when the temperature is below 40°F and when the ambient/substrate temp is below the paint manufacturer's recommended temperature of application and curing. De-humidifier equipment shall be used to control RH and Dew point. The paint application shall not be done when the wind speed exceeds 20 km per hour.
- Blast cleaned surface shall be coated with one complete application of primer as soon as practicable but in no case later than 4 hours the same day.
- To the maximum extent practicable, each coat of material shall be applied as a continuous film uniform thickness free of probes. Any spots or areas missed in application shall be recoated and permitted to dry before the next coat is applied. Applied paint should have the desired wet film thickness.
- Each coat shall be in proper state of cure or dryness before the application of succeeding coat. Material shall be considered dry for recoating when an additional coat can be applied without the development of any detrimental film irregularities, such as lifting or loss of adhesion of the under coat. Manufacturer instruction shall be followed for inter-coat interval.
- When the successive coat of the same colour have been specified, alternate coat shall be tinted, when practical, sufficiently to produce enough contrast to indicate complete coverage of the surface. The tinting material shall be compatible with the material and not detrimental to its service life and shall be recommended by the original paint manufacturer.
- Airless spray application shall be in accordance with the following procedure: as per steel structure paint Manual Vo. 1 & Vol. 2 by SSPC, USA, Air less spray relies on hydraulic pressure rather than air atomization to produce the desired spray. An air compressor or electric motor is used to operate a pump to produce pressures of 1000 to 6000 psi. Paint is delivered to the spray gun at this pressure through a single hose within the gun, a single paint stream is divided into separate streams, which are forced through a small orifice resulting in atomization of paint without the use of air. This results in more rapid coverage with less over spray.

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- Airless spray equipment is mounted on wheels, and paint is aspirated in a hose that sucks paint from any container, including drums. The unit shall have in built agitator that keep the paint uniformly mixed during the spraying. The unit shall consist of in built strainer. Usually very small quantity of thinning is required before spray. In case of high build epoxy coating (two pack). 30:1 pump ratio and 0.020-0.023" tip size will provide a good spray pattern. Ideally fluid hoses should not be less than 3/8" ID and not longer than 50 ft to obtain optimum results. In case of gun choking, de-choking steps shall be followed immediately.
- Brush application of paint shall be in accordance with the following:
 - Brushes shall be of a style and quality that will enable proper application of paint.
 - Round or oval brushes are most suitable for rivets, bolts, irregular surface, and rough or pitted steel. Wide flat brushes are suitable for large flat areas, but they shall not have width over five inches.
 - Paint shall be applied into all corners.
 - Any runs or sags shall be brushed out.
 - There shall be a minimum of brush marks left in the applied paint
 - Surfaces not accessible to brushes shall be painted by spray, doubers, or sheepkin.
- For each coat the painter should know the WFT corresponding to the specified DFT and standardize the paint application technique to achieve the desired WFT. This has to be ensured in the qualification trial.
- No coat shall be applied until the preceding coat has dried. The material shall be considered dry for re-coating when another coat can be applied without the development of any film irregularities such as lifting or loss of adhesion of undercoats. Drying time of the applied coat should not exceed maximum specified for it as a first coat; if it exceeds the paint material has possibly deteriorated or maxing is faulty.
- No paint shall be force dried under conditions which will cause chalking, wrinkling, blistering formation of pores, or detrimentally affect the conditions of the paint.
- No drier shall be added to paint on the job unless specifically called for in the manufacturer's specification for the paint.

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- Paint shall be protected from rain, condensation, contamination, snow and freezing until dry to the fullest extent practicable.

11. **SURFACE PREPARATION METHOD**

The table below describes the methods for surface preparation and the standards used for cleanliness and surface preparation for painting /coating works.

SURFACE PREPARATION

Sr. No.	Description	International Standards (Equivalent)			Remarks
		ISO 8501-1 / SIS-05 59 00	SSPC-SP, USA	NACE, USA	
1.	- Solvent Cleaning Remove oil, grease or wax with a suitable solvent/degreaser (Non-Chloride solvent to be used on SS substrate)	ST-1	SSPC - SP1		
2.	Manual or hand tool cleaning: Removal of loose rust, loose mill scale and loose paint, chipping, scrapping, standing and wire brushing. Surface shall have a faint metallic sheen.	ST.2	SSPC-SP-2	-	This method is applied when the surface is exposed to normal atmospheric conditions when other methods cannot be adopted and also for spot cleaning during maintenance painting.
3.	Mechanical or power tool cleaning: Removal of loose rust loose mill scale and loose paint to by power tool chipping, de-scaling, sanding, wire brushing and grinding, after removal of dust, surface shall have a pronounced	ST.3	SSPC-SP-3	-	

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	metallic sheen.				
4	Dry abrasive Blast cleaning: There are four common grades of blast cleaning White metal				
4.1	Blast cleaning to white metal cleanliness: Removal of all visible rust. Mill scale, paint & foreign matter 100% cleanliness with desired surface profile	SA 3	SSPC-SP-5	NACE #1	Where extremely clean surface can be expected for prolong life of paint system.
4.2	Near white metal: Blast cleaning to near white metal cleanliness, until at least 95% of each element of surface area is free of all visible residues with desired surface profile.	SA 2 ½	SSPC-SP-10	NACE #2	For chemically resistant paint systems such as epoxy, vinyl, polyurethane based and inorganic zinc silicate paints, and for paint systems used under fairly corrosive conditions to obtain desired life of paint system.
4.3	Commercial Blast: Blast cleaning until at least two-third of each element of surface area is free of all visible residues with desired surface profile.	SA 2	SSPC-SP-6	NO. 3	For steel required to be painted with conventional paints for exposure to mildly corrosive atmosphere for longer life of the paint systems.
4.4	Brush-off Blast: Blast cleaning to white metal cleanliness, removal of all visible rust, mill scale, and paint foreign matter. Surface profile is not so important	SA 1	SSPC-SP-7	NO. 4	

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12. PAINTING / COATING MATERIALS

12.1 List of Primers and Finish Paints used:

A broad list of primers and finish paints to be used for painting and coating works is as given below:

PRIMERS	
PR-1	Chlorinated Rubber Zinc Phosphate Primer
PR-2	Etch Primer / Wash Primer
PR-3	Two component Epoxy Zinc Phosphate Primer cured with polyamine hardener
PR-4	Single pack, cold galvanizing compounds containing minimum 92% Electrolytic Zinc in dry film. make ZINGA, LOCKTITE (of HENKEL) or ZRC
FINISH COATS / PAINTS	
FP-1	Two component Acrylic – Polyurethane finish paint
FP-2	Chlorinated Rubber finish paint
FP-3A	High Build Epoxy finish coating cured with polyamine hardener
FP-3B	High Build Epoxy finish coating cured with polyamide hardener
FP-3C	Solvent less Epoxy Coating cured with polyamine hardener
FP-4	High build Coal Tar Epoxy coating cured with polyamine hardener
FP-5	Self-priming surface Tolerant High Build Epoxy coating. cured with polyamine hardener
FP-6	Two component Inorganic Zinc Silicate coating
FP-7	Heat resistant synthetic medium based Aluminium paint
FP-8	Two component Heat resistant Silicone Aluminium paint.
FP-9	Specially formulated Coal Tar Epoxy coating. cured with polyamine hardener
FP-10	Two component Epoxy Phenolic coating cured with Polyamine adduct hardener system
FP-11	Engineered Epoxy Poly Siloxane Coating or High Build cold applied inorganic Co-polymer based Aluminium coating
FP-12	Two component solvent free type High Build Epoxy Phenolic / Novalac Epoxy Phenolic coating cured with Polyamine adduct hardener system



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12.2 Detailed Specification of Primers and Finish Paints

The following are the various parameters of primers, finish paints and coating materials to be used for carrying out various painting / coating works



PRIMERS

Sr. No.	Description	PR-1	PR-2	PR-3	PR-4
1.	Technical Name	Chlorinated Rubber Zinc Phosphate Primer	Etch Primer / Wash Primer	Epoxy Zinc Phosphate Primer	Zinga, Locktite or ZRC Cold Galvanized
2.	Pack Type	Single Pack	Two Pack	Two Pack	Single Pack
3	Composition	Air Drying Chlorinated, Rubber based medium Plasticized with unsaponifiable Plasticizer, pigmented with zinc phosphate	Polyvinyl butyral resin medium cured with phosphoric acid solution. pigmented with zinc tetroxy chromate	Polyamine cured epoxy resin, medium, pigmented with zinc phosphate	Synthetic resin based zinc galvanizing containing min 92% of electrolytic zinc dust of 99.95% purity.
4.	Vol. Solids %	40±3	10±1	50±1	37%
5.	DFT (Micron) / Coat	40-45	8-10	40-50	40-50fl
6.	Covering M ² / Coat / Litre	8-10	8-10	8-10	4 m ² /kg
7.	Wt. Kg. / Litre	1.3±0.05	1.2±0.05	1.4±0.05	2.67 kg at 15°C
8.	Touch Dry at 30°C Min.	30 minutes	2hrs.	After 30 min.	10 minutes
9.	Hard Dry at 30°C Max.	8 hrs.	24 hrs.	8 hrs.	24 hrs.
11.	Over-coat Interval at 30°C	Min.: 8 hrs.	Min.: 4-6 hrs.	Min.:8hrs.	Min.:4 hrs
12.	Pot Life at 30°C	Not applicable	Not applicable	6-8 hrs.	Unlimited
13.	Temperature. Resistance min	60°C Dry service	NA Dry service	80°C Dry service	50°C Dry service

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FINISH PAINTS

Sr. No.	Description	FP-1	FP-2	FP-3A /B	FP-3C	FP-4
1.	Technical Name	Acrylic Polyurethane finish paint	Chlorinated Rubber based finish paint	Epoxy-High Build coating	Solvent less Epoxy coating	High Build Coal Tar Epoxy coat.
2.	Pack Type	Two pack	Single pack	FP-3A: Two pack	Two pack	Two pack
3	Composition	Aliphatic isocyanate cured acrylic finish paint with Glossy-High Glossy finish	Plasticized chlorinated rubber based medium with chemical and weather resistant pigments.	FP-3A: Aromatic amine cured epoxy resin medium suitably pigmented. FP-3B: polyamide cured epoxy resin medium suitably pigmented	Cured with Amine Adduct; catalyzed epoxy resin suitably pigmented.	Polyamide cured epoxy resin blended with coaltar medium, suitably pigmented
4.	Vol. Solids %	40±3	38±2	60±3	99±1	65±3
5.	DFT (Micron) / Coat	30-40	30-40	100-125	200-500	100-125
6.	Covering M ² / Coat / Litre	11-15	11-15	5-6	2-3	5.2-6.5
7.	Wt. Kg. / Litre	1.15±0.03	1.15±0.03	1.42±0.03	1.40±0.03	1.40±0.03
8.	Touch Dry at 30°C Max.	30 Min.	30 Min.	3 Hrs.	3 Hrs.	4 Hrs..
9.	Hard Dry at 30°C Max. Full Cure at 30°C for Immersion	8 Hrs. NA	8 Hrs.. NA	16 Hrs. 5 days	16 Hrs. NA	48 Hrs. 5 days
10.	Over-coat Interval at 30°C (Min)	12 Hrs.	Overnight.	Overnight. Max.: 5 days	8 Hrs.. Max.: 48 hrs	24 Hrs. Max.:5 days
11.	Pot Life at 30°C for paints -two components	6-8 Hrs.	NA	4-6 Hrs.	30 Min.	4-6 Hrs.
12.	Temperature. Resistance - Dry service - Immersion	80°C -	- 60°C	80°C -	120°C 50°C	- 125°C

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FINISH PAINTS... CONT'D

Sr. No.	Description	FP-5	FP-6	FP-7	FP-8
1.	Technical Name	High Build Epoxy , self-priming type surface tolerant coating (for complete rust control)	Inorganic zinc silicate coating	Aluminum Paint Heat resistant synthetic medium based suitable up to 250°C dry temp	Silicone Aluminum Paint Heat resistant suitable up to 500°C dry temp.
2.	Pack Type	Two pack	Two pack	Two pack	Single pack
3	Composition	Epoxy resin based suitable pigmented and capable of adhering to manually prepared surface and old coating.	Air drying self curing solvent based inorganic zinc silicate coating with minimum 80% zinc content on dry film. The final cure of the dry film shall pass the MEK rub test. Zinc purity shall be Type-II of ASTM D520	Heat resistant synthetic medium based Aluminium paint suitable upto 250°C.	Silicon resin based medium with Aluminum flakes.
4.	Vol. Solids %	78±3	60±3	38±0.03	20±2
5.	DFT (Micron) / Coat	100-125	65-75	15-20	15-20
6.	Covering M ² / Coat / Litre	6.0-7.2	8-9	10-12	8-10
7.	Wt. Kg. / Litre	1.41 ± 0.03	2.3 ± 0.03	0.95 ± 0.03	1.0 ± 0.03
8.	Touch Dry at 30°C Max.	3 Hrs.	30 Min.	3 Hrs.	30 Min.
9.	Hard Dry at 30°C Max. Full Cure 30°C for Immersion	24 Hrs. 5 days	12 Hrs. NA	12 Hrs. NA	24 Hrs. NA
10.	Over-coat Interval Min.	10 hrs.	12 hrs. at 20°C & 50% RH.	24 hrs.	24 hrs.
11.	Pot Life at 30°C	90 Min.	4-6 Hrs.	NA	NA
12.	Temperature. Resistance Min. Dry service	80°C	540°C.	250°C	500°C .

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FINISH PAINTS... CONT'D


Sr. No.	Description	FP-9	FP-10	FP-11	FP-12
1.	Technical Name	Coal Tar Epoxy Polyamine cured	Epoxy Phenolic coating Two-component cured with Polyamine adduct hardner system (primer + intermediate coat + finish paint).	Poly Siloxane Coating - ambient temperature curing / High build inorganic copolymer based Aluminium coating, cold applied suitable for under insulation coating of CS and SS piping for high temperature service	High Build Epoxy phenolic based - Two components solvent free type / Novalac Epoxy Phenolic coating
2.	Pack Type	Single pack	Two pack	Two pack	Single pack
3	Composition	Specially formulated polyamine cured coal tar epoxy suitable for application under insulation	Temperature curing epoxy phenolic coating system suitable for application under insulation of CS/AS/SS piping	Amercoat 738 from PPG Protective & Marine Coatings or Interterm 751 CSA of International (Akzo Nobel). Note: 6	High build epoxy phenolic / Novalac Epoxy phenolic coating cured with Polyamine adduct hardner system
4.	Vol. Solids %	70 ± 3	70 ± 3	60 ± 2	98 -100
5.	DFT (Micron) / Coat	100-125	75-100	75-100	125-150
6.	Covering M ² / Coat / Litre	5-8	4-5	7-9	6.5-8
7.	Wt. Kg. / Litre	1.45 ± 0.03	1.65 ± 0.03	1.3	1.7
8.	Touch Dry at 30°C Min.	4 Hrs.	3 Hrs.	1 Hrs.	2 Hrs.
9.	Hard Dry at 30°C Max.Full Cure 30°C for Immersion	24 Hrs. 168 Hrs.(7days)	24 Hrs. 168 Hrs.(7days)	16 Hrs. -	24 Hrs. 168 Hrs.7days)
10.	Over-coat Interval Min,	6 Hrs. Max.: 5 days	16 Hrs. Max.: 21 days	16 Hrs.. Max.: NA	16 Hrs. Max.: 21 days
11.	Pot Life at 30°C	4 Hrs.	4-6 Hrs.	1 Hr.	1 Hr.

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12.	Temperature. Resistance Min.	-45°C to 125°C under insulation And immersion	-45°C to 150°C under insulation & immersion. (Note: 5)	<ul style="list-style-type: none"> Up to 400 °C for CS & SS for Intertherm 751 CSA Up to 480 °C for CS and up to 600 °C for SS for Amercoat 738 (Note 6) 	-45°C to 150°C for immersion service
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Notes:

- Covering capacity and DFT depends on method of application. Covering capacity specified above is theoretical. Allowing the losses during application, min. specified DFT shall be maintained.
- All primers and finish coats shall be cold cured and air drying unless otherwise specified.
- All paints shall be applied in accordance with manufacturer's instructions for surface preparation, intervals, curing and application. The surface preparation, quality and workmanship shall be ensured. In case of conflict between this specification and manufacturer's recommendation, the same shall be clarified with Engineer in charge.
- Technical data sheets for all paints shall be supplied at the time of submission of quotations.
- FP-10 Two-component Epoxy phenolic coating cured with Polyamine adduct hardner system (primer + intermediate coat + finish paint) suitable upto 225°C (Intertherm 228 from M/s Akzo Nobel Coatings India Pvt Ltd. Bangalore). For all other companies, the temperature resistance shall be a maximum of 150°C.
- FP-11 Ambient temperature curing epoxy poly siloxane Coating or high build cold applied inorganic co-polymer based aluminium coating. Amercoat 738 from PPG Protective & Marine coatings, Mumbai is suitable up to 480°C for CS surfaces and 600°C for SS surfaces. Intertherm 751 from Akzo Nobel Coatings India Pvt Ltd., Bangalore, Inorganic co- polymer cold applied Aluminium spray coating is suitable upto 400°C of CS & SS surfaces.


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13. PAINTING SYSTEM TABLES & SELECTION CRITERIA

13.1 Painting System Tables:

There are 11 painting system tables in this specification covering most of painting and coating works. However, new table may be added based on project requirement for any specific painting works as necessary. The tables are as under:

Table-01	Painting systems for uninsulated piping, equipment and structures in process units, power plant, DM plant, cooling tower, chimney / stack, package units and any other equipment in process units also including offsite in coastal areas
Table-02	Painting system for insulated equipment and piping (under insulation) in process units and off sites (Carbon steel, LTCS, SS & low alloy steel)
Table-03	Painting system for uninsulated storage tanks in process units and off sites (Carbon steel & low alloy steel)
Table-04	Painting system for internal surface of storage tanks in process units and off sites (Carbon steel & low alloy steel)
Table-05	Painting system for external surface of underground piping and vessels in units and off sites (Carbon steel)
Table-06	Painting system for internal protection of components of coolers / condensers in fresh water service in units and off sites (Carbon steel)
Table-07	Painting system for internal protection of components of coolers / condensers in fresh water service in units and off sites (Stainless steel, duplex stainless steel, non-ferrous materials & galvanized steel)
Table-08	Painting system for effluent treatment plants (ETP)
Table-09	Coating systems for gratings, rolling & stationery ladders, spiral stairways and hand rails in all location
Table-10	Repair of pre-erection / pre-fabrication or shop primer after erection / welding of uninsulated piping and equipment in all environments. (CS, LTCS & low allow steel)
Table-11	Painting system for uninsulated Piping, Equipment, Tanks & Package units in Process Units & Off-Sites (Stainless Steel)

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13.2 Table selection Criteria:

The painting Table shall be selected based on following broad parameters given below. The selection criteria shall also be in the order below. All necessary precaution shall be taken in selecting the applicable table. In case of any difficulty Contractor may seek clarification before starting the works from Engineer in charge whose decision shall be final and binding on the Contractor.

Sr. No.	Criteria	Description	Details
1	Plant Location	<ul style="list-style-type: none"> Non Coastal / Inland Coastal / Marine 	More than 50 KM from Sea shore Coastal / Marine Within 50 KM from Sea shore
2	Environment	<ul style="list-style-type: none"> Industrial Industrial Marine 	Use Industrial , if Marine environment is not mentioned
3	Type of facility	<ul style="list-style-type: none"> Units Offsite 	Process Units, Power Plant, Cooling Towers, DM Plant, pipe Rack in units, Package units, chimney/ stack, any other equipment in units Offsite- pipe racks, Piping on Sleepers
4	Temperature Ranges	(-) 180°C to 600°C	Temperature varies for case to case. Selection of painting systems according to the operating temperatures of the line.
5	Material of Const. (MOC)	Carbon Steel (CS) Low Alloy Steel, Stainless Steel (SS)	Aluminium, Copper , Monel, Incoloy, Nickel No painting is required
6	<ul style="list-style-type: none"> Insulated Non Insulated 	Equipment / Piping Equipment / Piping	See Under insulation table

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7	<ul style="list-style-type: none"> • Aboveground • Underground 	Equipment / Piping Equipment / Piping	Equipment /piping in pit consider underground
8	Surface	<ul style="list-style-type: none"> • External • Internal 	Equipment /piping Equipment only

NOTES: (For ALL Tables)

1. The list of items specified in tables is not exhaustive. More items may be included for a particular Contract as necessary. The Contractor shall complete painting including prefabrication primer for all the items in his scope of work as per tender documents and instructions of Engineer in charge.
2. If the pre-erection / prefabrication and shop primer has already been completed, the same shall not be repeated again in the field. In case the damages of primer are severe and spread over large areas, the Engineer in charge may decide and advise re-blasting and priming again. Repair of pre- fabrication / pre-erection primer, as instructed, shall be carried out by Contractor.
3. All coating system including surface preparation, primer and finish coat for piping shall be done at site / field only.
4. Finish coating is not permitted at equipment manufacture shop.



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TABLE -01
PAINTING SYSTEMS FOR UNINSULATED PIPING, EQUIPMENT AND STRUCTURES IN
PROCESS UNITS, POWER PLANT, DM PLANT, COOLING TOWER, CHIMNEY / STACK,
PACKAGE UNITS AND ANY OTHER EQUIPMENT IN PROCESS UNITS ALSO INCLUDING
OFFSITES (Carbon Steel, LTCS & Low Alloy Steel)

Sl. No.	Temp.in °C	Surface Preparation & Pre erection / Shop Primer	Painting System (Post-erection / Field)		Total Final DFT in Micr. (min.)	Remarks
			Primer	Finish Coat		
						<ul style="list-style-type: none"> No over coating to be done on FP-6 as it will lead to mud cracking.
1.2	-14 to 100	SSPC-SP-10 FP-6 = 75 µm FP-3A =150 µm FP-1 =35 µm Total DFT at shop = 260 µm	FP-1 =40 µm will apply after pressure water wash & surface rubbing Cumulative DFT = 300		300	<ul style="list-style-type: none"> FP-8 shall be ambient temperature curing type. Finish coat including primer compatible with finish coat. (I.e. field primer) shall be applied at site only.
1.3	101 to 400	SSPC-SP-10; 1 coat of FP-6 @ 65 - 75 micr. DFT / Coat	None	2 Coat of FP-8 @ 20 micr. DFT / Coat 2x20 =40	105 - 115	
1.4	401 to 540	SSPC-SP-10; 1 coat of FP-6 @ 75 micr. DFT / Coat	None	2 Coat of FP-8 @ 25 micr. DFT / Coat (2x25 =50)	125	

➤ For external surface of MS chimney with or without refractory lining and for internal surface without refractory lining, paint system at Sl. No.1.3 of the above table shall be followed.

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- For external surface of RCC Chimney 2 coats of FP-3A @ 100 Micr. DFT/ coat to obtain total DFT of 200 Micr. shall be applied after proper surface preparation as per Clause 9.3.7
- In case of paint systems as per Sl. Nos. 1.3 and 1.4, the colour bands shall be applied over the Aluminum paint as per the Color coding system requirement for specific service of piping.
- For 1.3 & 1.4 finish coat at field may be applied at shop itself and touch-up will be done at field.





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TABLE -02
PAINTING SYSTEM FOR INSULATED EQUIPMENT AND PIPING (UNDER INSULATION) IN
PROCESS UNITS AND OFFSITES (Carbon Steel, LTCS, SS & Low Alloy Steel)

Sl. No.	Temp.in °C	Surface Preparation & Pre erection / Shop Primer	Painting System (Post-erection / Field)		Total Final	Remarks
			Primer / Intermediate	Finish Coat	DFT in Microns (min.)	
2.1	Equipment & Piping - Carbon steel, LTCS and low Alloy steel					
2.1.1	- 45 to 200	SSPC-SP-10 1 coat of FP-10 @ 125 micr. DFT/coat.	None	1 coat of FP-10 @ 75micr. DFT/coat. (1x125=125)	250	
2.1.2	201 to 540	SSPC-SP-10; 1 coat of Titanium catalyzed inorganic ceramic coploymer @ 150 micr. DFT/coat.	None	1 coat of Titanium catalyzed inorganic ceramic coploymer @ 150micr. DFT/coat.	300	
2.2	Piping -Stainless Steel including Alloy-20 (Note:2)					
2.2.1	-180 to 600	For SS SSPC-SP-6 Commercial Blast/ For SS SSPC-SP-1 With non-chloride solvent 1 coat of Titanium catalyzed inorganic ceramic coploymer @ 150 micr. DFT/coat.	None	1 coat of Titanium catalyzed inorganic ceramic coploymer @ 150micr. DFT/coat. (150x1=150)	300	
2.3	No painting is required for insulated Monel, Incoloy and Nickel lines.					

- **"Cyclic Service"** is characterized by rapid temperature fluctuation.
- The blast cleaning abrasives for SS and Alloy steel surfaces shall be Aluminium oxide grits/shots or garnet.
- Surface shall be thoroughly degreased using an appropriate emulsion cleaner and

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abrasive cleaned (sweep blasting) to create a sufficient anchor profile. Abrasive for blast cleaning of stainless steel surfaces shall be performed with a suitable non-metallic abrasive such as aluminum oxide. When hand or power tool cleaning is required on stainless steel, only stainless steel wire brushes that have not been previously used on carbon steel surface must be used. All coatings and solvents for use on stainless steel shall be free of substances such as chlorides and other halides, sulfur, and shall be free of low melting point metals (zinc, aluminum, tin and lead).

- For 2.1.1 ,2.1.2 & 2.2.1 finish coat at field may be applied at shop itself and touch-up will be done at field.




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TABLE -03
PAINTING SYSTEM FOR UNINSULATED STORAGE TANKS IN PROCESS UNITS AND
OFFSITES (Carbon Steel & Low Alloy Steel)

Sl. No.	Temp.in °C	Surface Preparation (Field)	Painting System (In field after welding & erection)		Total DFT in Microns (min.)	Remarks
			Primer	Finish Coat		
3.1	All external surfaces of shell, wind girders, appurtenances, roof tops of all above ground tank including top side of external and internal floating roof and associated external structural works.					
3.1.1	-14 to 100	SSPC-SP-10	1 coat of FP-6 @ 65-75 micr. DFT/coat +1 coat of PR-3@ 40 micr. DFT/coat.	2 coats of FP=3A @ 100 micr. DFT/coat + 1 coat of FP-1 @ 70 micr. DFT/coat;	345-355	FP-3A should be suitable for occasional water immersion.
3.1.2	101 to 150	SSPC-SP-10	1 coat of FP-10 @ 80 micr. DFT/coat +1 coat of FP-10 intermediate coat @ 80 micr. DFT/coat.	1 coats of FP-10 @80 micr. DFT/coat + 1 coat of FP-1@ 40 micr. DFT/coat;	280	-
3.1.3	151 to 500	SSPC-SP-10	1 coat of FP-6 @ 65-75 micr. DFT/coat	2 coats of FP-8 @20 micr. DFT/coat (or) 1coat of FP-11 @ 50 micr.	105	-
3.2	External surfaces of bottom plate (soil side) for all storage tanks.					
3.2.1	-14 to 80	SSPC-SP-10	1 coat of FP-6 @ 75 micr. DFT/coat.	2coat of High Glass Flake Epoxy @ 200 micr. DFT/coat.(2x200=400)	475	

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3.2.2	81 to 150	SSPC-SP-10	1 coat of FP-10 @ 80 micr. DFT/ coat +1 coat of FP-10 intermediate coat @ 80 micr. DFT/ coat. (80+80=160)	1 coats of FP-10 finish coat @80 micr. DFT/coat.	240	-
3.2.3	151 to 550	SSPC-SP-10	1 coat of FP-11 @ 125 micr. DFT/coat	1 coats of FP-11 finish coat @80 micr. DFT/coat.	250	-
3.3	For underside of the bottom plate (in case tank is not lifted during PWHT) (see Note 2c)					
3.3.1	-180 to 650	For CS SSPC-SP-6 Commercial Blast For SS SSPC-SP-1 With non-chloride solvent	1 coat of inter polymeric matrix coating @ 125 microns.	2 coat of inter polymeric matrix coating @ 125 microns.	350-400	Products from JOTUN or HI-TEMP coating or SK FOMULATION recommended.

- All paint coating application including primer for tankage shall be carried out at field after erection and completion of all welding.
- For underside of bottom plate, painting shall be carried out before laying of bottom plate for tanks with Non-Post Weld Heat Treatment (PWHT).
- For tanks with PWHT, painting shall be carried out after PWHT.
- In case tank is not lifted during PWHT then painting shall be applied before laying of bottom plate, SI no. 3.3.1 shall be followed.


Caution: PWHT temperature shall not exceed 650°C.

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TABLE -04

PAINTING SYSTEM FOR INTERNAL SURFACE OF STORAGE TANKS IN PROCESS UNITS AND OFFSITES (Carbon Steel & Low Alloy Steel)

Sl. No.	Temp.in °C	Surface Preparation (Field)	Painting System (In field after welding & erection)		Total DFT in Microns (min.)	Remarks
			Primer	Finish Coat		
4.1	Crude oil, ATF, Turpentine oil, Lubricating oil and Vegetable oil Underside of floating roof, internal surface of cone roof, inside of bottom plate, Internal surfaces of Shell - including wetted and free board height, oil side surfaces of deck plates, oil side surfaces of pontoons, roof structures, structural steel, ladders and other carbon steel internals.					
4.1.1	-14 to 90	SSPC-SP-10	1 coat of FP-10 primer@ 80 micr. DFT/coat.	1 coats of FP-10 intermediate coat @80micr. DFT/coat+ 1coat of FP-10 finish coat@ 80 micr.	240 - 300	-
4.2	Petroleum products & Intermediates Like LDO, HSD, Gas oil, Feeds of FCC -PC, FCC-LCO, VGU-HDT, ISOM, DHDT, Reformate, DCU, NHT & Gasoline, Naphtha, Isomerate and Kerosene. Underside of Floating roofs, internal surface of cone roof, inside of bottom plate, internal surfaces of Bare shell for full height, underside of floating roof, oil side surfaces of deck plates, oil side surfaces of pontoons, support structures and ladders etc.					
4.2.1	-14 to 45	SSPC-SP-10	1 coat of FP-6 @ 75 micr. DFT/coat.	-	75	Note-1
4.2.2	46 to 90	SSPC-SP-10	1 coat of FP-10 primer@ 80 micr. DFT/coat+	1 coats of FP-10 intermediate coat @80micr. DFT/coat+ 1coat of FP-10 finish coat@ 80 micr. DFT/coat;	240-300	-
4.3	Raw / Fresh water, Potable water and Fire water All internal surfaces, accessories and roof structures of cone and dome roof tanks					
4.3.1	-14 to 65	SSPC-SP-10	1 coat of PR-3 @ 100 microns. DFT/coat	2 coats of FP3A @ 100 micr. DFT/coat. (2x100=200)	300	Note-2

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4.4	De-mineralized water (DM) All internal surfaces, accessories and roof structures of cone and dome roof tanks					
4.4.1	-14 to 60	SSPC-SP-10	1 coat of PR-3@ 100micr. DFT/coat.	2 coats of FP-3C @ 200 micr. DFT/coat. (2x100=200)	400 - 450	-
4.4.2	61 to 150	SSPC-SP-10	1 coat of FP-10 primer@ 80 micr. DFT/coat.	1 coats of FP-10 intermediate coat @80micr. DFT/coat+ 1coat of FP-10 finish coat@ 80 micr. DFT/coat; (80+80=160)	240 - 300	-
4.5	Hydrochloric Acid (HCl) 10% All internal surfaces, accessories and roof structures of cone and dome roof tanks					
4.5.1	-14 to 60	SSPC-SP-10	None	Natural Rubber Lining	4.5 mm	-
4.6	Aggressive Solvents like Hexane, Hexene, Benzene, Xylene and Toluene All internal surfaces, accessories and roof structures of cone and dome roof tanks.					
4.6.1	-14 to 65	SSPC-SP-10	1 coat of FP-6 @ 75microns. DFT/coat	-	75	-
4.7	Ethylene Glycol (EG) Tanks Internal shell-full height, bottom plate, underside of roof and all accessories					
4.7.1	ALL	SSPC-SP-10	1 coat of FP-10 primer@ 80micr. DFT/coat.	31 coats of Vinyl chloride Co-polymer Amercoat 23 @75micr. DFT/coat (3x75=225)	225	-
4.8	Inside pontoon and inside of double deck of all tanks floating roofs					
4.8.1	-14 to 80	SSPC-SP-3	1 coat of FP-5@ 100micr. DFT/coat.	1 coats of FP-5 coat @100micr. DFT/coat	200	-
4.9	Wet Slops, Amine Solutions, Sour water, Water draw off All internal surfaces, accessories and roof structures of Cone and Dome roof tanks.					

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4.9.1	-14 to 90	SSPC-SP-10	1 coat of Novolac Phenolic Epoxy Primer@ 125micr. DFT/coat.	1coat of Novolac Phenolic Epoxy finish coat@ 125 micr. DFT/coat; (80+80=160)	250	-
4.10	Vacuum Residue, Fuel oil, Dry Slop, Bitumen and other High Temperature Hydrocarbon Liquids. Underside of floating roof, internal surface of cone roof, bottom plate, inside of bare shell - including wetted and non-wetted surfaces, oil side surfaces of deck plates, oil side surfaces of pontoons, roof structures, structural steel and ladders.					
4.10.1	Up to 150	SSPC-SP-10	1 coat of FP-12 Primer@ 125micr. DFT/coat.	1 coats of FP-12 intermediate coat @125micr. DFT/coat+ 1coat of FP-12 finish coat@ 125 micr. DFT/coat; (125+125=250)	375	Note-3
4.11	Alkalis up to 50 % Concentration All internal surfaces accessories and roof structures of cone and dome roof tanks					
4.11.1	Up to 60	SSPC-SP-10	1 coats of Novolac Phenolic Epoxy primer @125micr. DFT/coat.	1coats of Novolac Phenolic Epoxy @100micr. DFT/coat. (1x125=1250)	250	-

Notes:

1. FP-6 shall be suitable and resistant for immersion service for the respective Hydrocarbons.
2. FP-3A shall be suitable for drinking water service and should have competent authority certification.
3. This system can be used where maximum operating temperature is below 150°C and design temperature is up to 200°C. Cases of operating temperature above 150°C are not covered in this spec; such cases shall be covered in the job specifications.

TABLE -05

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PAINTING SYSTEM FOR EXTERNAL SURFACE OF UNDERGROUND PIPING AND VESSELS IN UNITS AND OFFSITES (Carbon Steel)

Sl. No.	Temp.in °C	Surface Preparation & Shop Primer	Coating System (Field)		Total	Remarks
			Surface Preparation & Primer	Finish Coat	Final DFT in Microns (min.)	
5.1	External surface of non-insulated underground piping					
5.1.1	25 to 65	-	SSPC-SP-10; Three layer polyethylene coating, thickness as per JSS for coating.			
5.1.2	66 to 150	-	SSPC-SP-10; 1 coat of FP-12 primer @ 125micr. DFT/coat.	1 coats of FP-12 intermediate coat @125micr. DFT/coat+ 1coat of FP-12 finish coat @ 125 micr. DFT/coat;	375	-
5.1.3	151 to 400	-	SSPC-SP-10; 1 coat of FP-11 primer @ 125micr. DFT/coat.	1 coat of FP-11 finish coat @ 125micr. DFT/coat.	250	-
5.2	External surface of non-insulated underground storage vessels					
5.2.1	-14 to 80	SSPC-SP-10; 1 coat of FP-6 @ 65-75 micr. DFT/coat.	-	3 coat of FP-4 @ 100 micr. DFT/coat.	365-375	-
5.2.2	81 to 150	SSPC-SP-10; 1 coat of FP-6 @ 125 micr. DFT/coat.	-	1 coat of FP-12 Intermediate coat @ 125micr. DFT/coat+ 1coat of FP-12 finish coat @ 125 micr. DFT/coat;	375	-
5.2.3	151 to 400	SSPC-SP-10; 1 coat of FP-11 @ 125 micr. DFT/coat.	-	1 coats of FP-11 finish coat @125micr. DFT/coat	250	-


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TABLE -06
PAINTING SYSTEM FOR INTERNAL PROTECTION OF COMPONENTS OF COOLERS /
CONDENSERS IN FRESH WATER SERVICE IN UNITS AND OFFSITES (Carbon Steel)

Sl. No.	Temp.in °C	Surface Preparation & Shop Primer	Coating System (Field)		Total	Remarks
			Surface Preparation & Primer	Finish Coat	Final DFT in Microns (min.)	
6.1	Fresh water boxes, channels, partition plates, end covers and tube sheets etc.					
6.1.1.	Up to 80	SSPC-SP-10;	1 coat of FP-10 @ 80micr.	2 coat of FP-10@ 80 micr. DFT/coat;	240	-
6.1.2.	80 to 140	SSPC-SP-10;	-	1Coat of glass Fibre Reinforced Novolac epoxy of 1.5mm DFT	1500	-

TABLE -07
PAINTING SYSTEM FOR INTERNAL PROTECTION OF COMPONENTS OF COOLERS /
CONDENSERS IN FRESH WATER SERVICE IN UNITS AND OFFSITES
(Stainless Steel, Duplex Stainless Steel, Non-ferrous materials & Galvanized Steel)

Sl. No.	Temp.in °C	Surface Preparation & Shop Primer	Coating System (Field)		Total Final DFT in Microns (min.)	Remarks
			Surface Preparation & Primer	Finish Coat		
7.1	Up to 80	Sweep Blasting	1 coat of FP-10 @ 80micr. DFT/coat;	1 coat of FP-105@ 80 micr. DFT/coat;	160	-
7.2.	80 to 140	Sweep Blasting	-	1Coat of glass Fibre Reinforced Novolac epoxy of 1.5mm DFT	1500	-


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TABLE -08

PAINTING SYSTEM FOR EFFLUENT TREATMENT PLANTS (ETP)

Sl. No.	Temp.in °C	Surface Preparation	Coating System		Total	Remarks
			Primer	Finish Coat	DFT in Microns	
8.1	External Surface of C.S./ M.S. items screens, walk way, bridges, baffles, dual media filters, Vertical pumps, piping in treated effluent sump, bio sludge pump,					
8.1.1	-14 to 80	SSPC-SP-10	1 coat of FP-6 @ 65-75 micr. DFT/coat	2 coats of FP-3A@100 micr. DFT/coat+ 1coat of FP-1 @ 40 micr. DFT/coat; (2x100+40=240)	305 - 315	
8.2	Internal surfaces of CS/MS Items: Bio-sludge sump, Filter feed sump, Process sump, Sanitary sump, Transfer sump, Sludge, Slop oil tank, scrapping mechanism in Clarifier					
8.2.1	-14 to 80	SSPC-SP-10	1 coat of FP-6 @ 65-75 micr. DFT/ coat.	3 coats of FP-3A @100 micr. DFT/coat (3x100=300)	365 - 375	See * below
8.3	R.C.C./concrete surfaces exposed to effluent water / liquid such as tanks, structures, drains etc. in process sump, TPI separator (Process and oil), Aeration tank and Transfer sump etc.					
8.3.1	-14 to 80	Blast cleaning to SSPC-SP guide lines and Acid etching with 10-15% HCl acid followed by thorough water washing.	Epoxy Screed lining		3mm	Epoxy screed lining shall be applied as per specific manufacturer and Engineer in charge instructions.
8.4	C.S/ M.S Dual media filters (Internal), Chemical dosing tanks(internal) such as Di Ammonium Phosphate (DAP) and Urea					
8.4.1	Up to 60	SSPC-SP-10	Natural Rubber Lining (As per IS 4682, Part I)		4.5mm	Natural Rubber lining shall be applied as per specific manufacturer and Engineer in charge instructions.

- The paint /coating manufacturers shall provide their Quality control test certificate of coating materials (F-3A) for immersion service of the exposed effluent given in 9.2.

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TABLE -09

**COATING SYSTEMS FOR GRATINGS, ROLLING & STATIONERY LADDERS, SPIRAL STAIRWAYS
AND HAND RAILS IN ALL LOCATION**

Sl. No.	Temp.in °C	Coating System	Total DFT in Microns (min,)
9.1	Up to 60	1 coat of High Build Epoxy @ 75 micr. DFT/Coat and 1 coat pf FP-1 @ 50 micr. DFT/Coat	80 microns of finish coat (excluding the thickness of galvanizing) 125

NOTES:

1. No galvanized specimen shall have thickness less than 125 microns.
2. Repair of the damaged area of galvanized coatings due to welding during erection shall be carried out as per recommended practice IS 11759 using cold galvanizing spray process. Organic Paint systems are not acceptable for repair.
3. Approved Cold Galvanizing manufacturers are **ZINGA, LOCKTITE** or **Z.R.C.**


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TABLE -10

**REPAIR OF PRE-ERECTION / PRE-FABRICATION OR SHOP PRIMER AFTER ERECTION /
WELDING OF UNINSULATED PIPING AND EQUIPMENT IN ALL ENVIRONMENTS.
(CS, LTCS & low allow steel)**

Sl. No.	Temp.in °C	Surface Preparation	Coating System	Total DFT in Micr (min.)	Remarks
10.1	-90 to 400	SSPC-SP-3	1coat of FP-6	65-75	See note below and clause 5.9.3
10.2	401 to 550	SSPC-SP-3	1coat of FP-8	20	

- The repair of pre-erection / pre-fabrication or Shop Primer given above shall be done for all items requiring repairs. In case the damages of primer are severe and spread over large area, entire primer shall be removed by blasting to achieve SSPC-SP-10 and surfaces to be primed again with FP-6 or FP-8 as applicable.
- The primer shall be quickly removed from damaged area by mechanical scraping and emery paper conforming to SSPC-SP-3 to expose the white metal. Blast cleans the surface, if possible. Feather the primed surface over the intact adjacent surface (approximately 50mm) surrounding the damaged area by emery paper.




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TABLE -11

**PAINTING SYSTEMS FOR UN-INSULATED PIPING, EQUIPMENT, TANKS & PACKAGE
UNITS IN PROCESS UNITS AND OFFSITES
(STAINLESS STEEL)**

Sl. No.	Temp.in °C	Surface Preparation	Painting System (Post-erection / Field)		Total Final DFT in Micr. (min.)	Remarks
			Primer	Finish Coat		
11.1	0 to 120	SSPC-SP-6 'Sweep blast' using Aluminium Oxide or Garnet abrasive media SSPC-SP-1 With non-chloride solvent	2 Coats of FP-10 @ 125 micr. DFT / Coat 2x125=250	1 Coat of FP-1 @ 75 micr. DFT / Coat 1x75 =75	325	
11.2	121 to 200	SSPC-SP-6 'Sweep blast' using Aluminium Oxide or Garnet abrasive media SSPC-SP-1 With non-chloride solvent	2 Coats of FP-10 @ 125 micr. DFT / Coat 2x125=250	2 Coats of Silicon Acrylic @ 20 micr. DFT / Coat 2x20 =40	290	

- Surface preparation of stainless steel shall be in accordance with IS 8504-2, Sa 1 light blast cleaning to achieve a 25-40µm profile.
- Surface shall be thoroughly degreased using an appropriate emulsion cleaner and abrasive cleaned (sweep blasting) to create a sufficient anchor profile. Abrasive for blast cleaning of stainless steel surfaces shall be performed with a suitable non-metallic abrasive such as aluminum oxide. When hand or power tool cleaning is required on stainless steel, only stainless steel wire brushes that have not been previously used on carbon steel surface must be used. All coatings and solvents for use on stainless steel shall be free of substances such as chlorides and other halides, sulfur, and shall be free of low melting point metals (zinc, aluminum, tin and lead).
- Only air curing heat resistant silicone aluminium paints shall be applied, post heat curing materials are not acceptable
- The colour bands shall be applied over the Aluminum paint as per the Color coding system requirement for specific service of piping.
- Finish coat at field may be applied at shop itself and touch-up will be done at field.

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14. FINISH COLOUR SCHEDULE

14.1 General

This section covers the general colour requirements for structural steelwork and equipment with operating temperatures below 120 deg.C:

Structural Steel, Tanks, Spheres, Electrical Equipment		
Sl. No:	Service	Shade – Shade Number
N/A	Structural Steelwork	Light Grey – RAL 7035
N/A	Spheres and Storage tanks	White – RAL 9003
N/A	Electrical Switch Boards, Cable Conduit and Transformers and all other electrical equipment	Manufacturers Painting standard (including RAL 7035) conforming to relevant code and practices prevailing in the country of manufacture
Un-insulated Equipment, Tanks and Structures		
Sl. No:	Service	Shade – Shade Number
-	Loading Arms (i) Structural Steel (ii) Arms	Light Grey – RAL 7035 Yellow – RAL 1023
96	Heater Structure	Signal Grey – RAL 7004
97	Heater Casing	Aluminium – RAL 9006
98	Vessels and Columns	Aluminium – RAL 9006
99	Hydrogen Bullets	Antique Pink – RAL 3014
100	LPG Vessels	Oxide Red – RAL 3009
101	SO ₂ Vessel	Yellow – RAL 1023
102	Heat Exchangers	Aluminium – RAL 9006
103	FO Tank and Hot Tanks	Black – RAL 9017
104	All Other Tanks	Aluminium – RAL 9006
105	Caustic/Amine/Acid Tanks	Gold/Yellow – RAL 1004
106	Sour Water	Sky Blue – RAL 5015
107	Outer Surface in Boiler House	Aluminium – RAL 9006
108	Steam Turbine	Aluminium – RAL 9006
109	Compressors and Blowers	Dk Grey BS4800 18 B 25
110	Pumps	Cobalt Blue RAL – 5013
111	Motors (Except Fire Motors)	Bluish Green RAL 5021
112	Hand Railing	Red – RAL 3001
113	Staircase, Ladders and Walkways	Black – RAL 9017
114	Load lifting equipment & mono rails etc.	Brown – RAL 8003

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Safety Colour Schemes		
Sl. No:	Service	Shade – Shade Number
115	General Structure	Black – RAL 9017
116	Switchgear (including inside sub- station)	Light Grey RAL 7035
117	Dangerous Obstruction	Alternate Black (RAL 9017) and Orange (RAL 2008) Diagonal Banding
118	Dangerous or Exposed Parts of Machinery	Orange – RAL 2008

14.2 Pipe Colour Bands

This section covers the requirements for a colour scheme identifying the contents of piping carrying products. The colour coding system is based on international specifications such as ASME, ANSI, BS and Indian Standards including IOCL's existing specification for colour coding.

The system of coding consists of a ground/base colour superimposed with secondary colour bands. The ground colour identifies the basic nature of the service and the secondary colour bands distinguish the particular service product contained.

Ground colour shall be applied to the entire length of un-insulated piping.

The ground colours and secondary banding colours are defined in section 14.4.

The frequency of banding on un-insulated pipe shall be as follows:


- Unit Area – Bands at intervals of 6 metres
- Offsite Area – Bands at intervals of 10 metres

Each pipe segment will have a minimum of 1 identification band irrespective of length.

Colour bands of the correct size shall be applied to the pipe, at:

- Both sides of valves, tees and other fittings
- Where pipes enter and emerge through walls
- Where pipes enter and emerge from walkway overpasses and battery limits
- At uniform intervals along long sections of pipe
- Adjacent to tanks, vessels and pumps.

Insulated piping shall received ground colouring and coloured (secondary) identification bands at a minimum of either side of valves, flanges and the like, at each change in flow direction and at no greater than 6 metre intervals, ground colours should be 2 metres long.

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Secondary colours are to be applied using adhesive plastic tapes to the specified colour.

Bands widths are shown below for different pipe diameters and are to be spaced 25mm apart when two bands (or more) are used:

Outside diameter of pipe or covering (inches)	Width of colour bands (mm)
< 2"	200
2" – 4"	300
6" – 8"	600
>= 10"	800

Bands shall also be displayed conspicuously near walkways, both sides of culverts, tanks, dykes, vessels, suction and discharge of pumps/compressors, unit battery limit, near valves of line, etc.,

14.3 Identification Lettering

Name of service and direction of flow, for all lines shall be positioned at the following locations:

- Offsite lines: Both sides of culverts, any one side of walkways, near tank dykes, at tank inlet/outlet points and suction/discharge pumps/compressors.
- Unit lines: At the battery limit, suction/discharge of pumps/compressors, near vessels, columns, tanks, exchangers etc.,

Identification/legend letter sizes on piping shall depend on the pipe diameter. Either white or black letters are to be selected so as to afford maximum contrast with the identification band colour.

Outside diameter of pipe or covering (inches)	Size of legend letters (mm)
< 2"	19
2" – 4"	32
6" – 8"	64
>= 10"	89

Pipe contents and direction of flow is to be identified using legend letters and arrows, any hazard must be identified clearly by the legend.

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Size of letters (stenciled or pre-formed adhesive) for equipment shall be:

Equipment	Size of legend letters
Column and vessel	150 mm (height)
Pump, compressor and other machinery	50 mm (height)



Lettering shall be black on pipes painted with light shade colours and white on pipes painted with dark shade colours to give good contrast.

14.4 IOCL Paint Colour Code and Banding

The following base / ground and secondary colour designation for identification of various important services shall be followed:

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Sl. No:	Service	Base/Ground Colour	Secondary Band Colours
	Hydrocarbon Lines – (Un-insulated)		
1.	Crude Sour	Dk Grey BS4800 18 B 25	(x1) Orange – RAL 2008
2.	Crude Sweet	Dk Grey BS4800 18 B 25	(x1) Red – RAL 3001
3.	Lube Oils	Dk Grey BS4800 18 B 25	(x1) Green – RAL 6002
4.	Flare Line	Aluminium – RAL 9006	Aluminium – RAL 9006
5.	L.P.G.	Orange – RAL 2008	(x1) Oxide Red – RAL 3009
6.	Propylene	Orange – RAL 2008	(x2) Oxford Blue – RAL 5003
7.	Naptha	Orange – RAL 2008	(x1) Green – RAL 6002
8.	M.S.	Orange – RAL 2008	(x1) Dk Grey BS4800 18 B 25
9.	AV. Gasoline (96 RON)	Orange – RAL 2008	(x1) Green – RAL 6002 + (x1) White – RAL 9003 + (x1) Red – RAL 3001
10.	Gasoline (regular, leaded)	Orange – RAL 2008	(x1) Black – RAL 9017
11.	Gasoline (premium, leaded)	Orange – RAL 2008	(x1) Blue – RAL 5017
12.	Gasoline (white)	Orange – RAL 2008	(x1) White – RAL 9003
13.	Gasoline (aviation 100/130)	Orange – RAL 2008	(x1) Red – RAL 3001
14.	Gasoline (aviation 115/145)	Orange – RAL 2008	(x1) Purple – RAL 4006
15.	N-Pentane	Orange – RAL 2008	(x2) Blue – RAL 5017
16.	Diesel Oil (white)	Oxide Red – RAL 3009	(x1) White – RAL 9003
17.	Diesel Oil (black)	Oxide Red – RAL 3009	(x1) Yellow – RAL 1023
18.	Kerosene	Oxide Red – RAL 3009	(x1) Green – RAL 6002
19.	HY. Kero	Oxide Red – RAL 3009	(x2) Green – RAL 6002
20.	Disulfide Oil (Ex-Merox)	Oxide Red – RAL 3009	(x1) Black – RAL 9017
21.	M.T.O.	Oxide Red – RAL 3009	(x3) Green – RAL 6002
22.	DHPPA	Oxide Red – RAL 3009	(x2) White – RAL 9003
23.	Flushing Oil	Oxide Red – RAL 3009	(x2) Black – RAL 9017
24.	Lab FS	Oxide Red – RAL 3009	(x2) Dk Grey BS4800 18 B 25
25.	Lab RS	Oxide Red – RAL 3009	(x3) Dk Grey BS4800 18 B 25
26.	Lab (Off. Spec.)	Oxide Red – RAL 3009	(x1) Lt Grey RAL 7036
27.	N-Paraffin	Oxide Red – RAL 3009	(x1) Blue – RAL 5017
28.	Heavy Alkylate	Oxide Red – RAL 3009	(x1) Red – RAL 3001
29.	Blow Down, Vapour Line	Aluminium – RAL 9006	(x1) Brown – RAL 8003
30.	Blow Down	Aluminium – RAL 9006	(x2) Brown – RAL 8003

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Sl. No:	Service	Base/Ground Colour	Secondary Band Colours
31.	A.T.F.	Brown – RAL 8003	(x1) White – RAL 9003
32.	Toluene	Brown – RAL 8003	(x1) Yellow – RAL 1023
33.	Benzene	Brown – RAL 8003	(x1) Green – RAL 6002
34.	Lab Product	Brown – RAL 8003	(x1) Blue – RAL 5017
35.	Fuel Oil	Black – RAL 9017	(x1) Yellow – RAL 1023
36.	Fuel Oil (aromatic rich)	Black – RAL 9017	(x2) Yellow – RAL 1023
37.	Asphalt	Black – RAL 9017	(x1) White – RAL 9003
38.	Slop and Waste Oils	Black – RAL 9017	(x1) Orange – RAL 2008
39.	Slop Aromatic	Black – RAL 9017	(x2) Orange – RAL 2008

Chemical Lines (Un-insulated)			
40.	Tri-Sodium Phosphate	Yellow – RAL 1023	(x1) Violet – RAL 4008
41.	Caustic Soda	Yellow – RAL 1023	(x1) Black – RAL 9017
42.	Sodium Chloride	Yellow – RAL 1023	(x1) White – RAL 9003
43.	Ammonia	Yellow – RAL 1023	(x1) Blue – RAL 5017
44.	Corrosion Inhibitor	Yellow – RAL 1023	(x1) Aluminium – RAL 9006
45.	Hexameta Phosphate	Yellow – RAL 1023	(x2) Black – RAL 9017
46.	Acid Lines	Gold/Yellow – RAL 1004	(x1) Red – RAL 3001
47.	Rich Amine	Yellow – RAL 1023	(x2) Blue – RAL 5017
48.	Lean Amine	Yellow – RAL 1023	(x3) Blue – RAL 5017
49.	Solvent	Yellow – RAL 1023	(x1) Green – RAL 6002
50.	LCS	Yellow – RAL 1023	(x1) Grey – RAL 7001

Water Lines (Un-insulated)			
51.	Raw Water	Sky Blue – RAL 5015	(x1) Black – RAL 9017
52.	Industrial Water	Sky Blue – RAL 5015	(x2) Red – RAL 3001
53.	Treated Water	Sky Blue – RAL 5015	(x1) Oxide Red – RAL 3009
54.	Drinking Water	Sky Blue – RAL 5015	(x1) Green – RAL 6002
55.	Cooling Water	Sky Blue – RAL 5015	(x1) Pale Brown – RAL 8025
56.	Service Water	Sky Blue – RAL 5015	(x1) Red – RAL 3001
57.	Tempered Water	Sky Blue – RAL 5015	(x2) Green – RAL 6002
58.	DM Water	Sky Blue – RAL 5015	(x1) Aluminium – RAL 9006
59.	DM Water above 150°F	Sky Blue – RAL 5015	(x2) Black – RAL 9017
60.	Sour Water	Sky Blue – RAL 5015	(x2) Yellow – RAL 1023

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Sl. No:	Service	Base/Ground Colour	Secondary Band Colours
61.	Stripped Water	Sky Blue – RAL 5015	(x2) Blue – RAL 5017
62.	ETP Treated Water	Sky Blue – RAL 5015	(x2) Oxide Red – RAL 3009

Fire Protection System (Above Ground)			
63.	Fire Water, Foam and Extinguishers	Red – RAL 3001	Red – RAL 3001

Air and Other Gas Lines (Un-insulated)			
64.	Service Air	May Green – RAL 6017	(x1) Red – RAL 3001
65.	Instrument Air	May Green – RAL 6017	(x1) Black – RAL 9017
66.	Nitrogen	May Green – RAL 6017	(x1) Orange – RAL 2008
67.	Freon	May Green – RAL 6017	(x1) Yellow – RAL 1023
68.	Chlorine	Yellow – RAL 1023	(x1) Oxide Red – RAL 3009
69.	SO ₂	Yellow – RAL 1023	(x2) White – RAL 9003
70.	H ₂ S	Orange – RAL 2008	(x2) Oxide Red – RAL 3009
71.	Gas (fuel)	Orange – RAL 2008	(x1) Aluminium – RAL 9006
72.	Gas (sour)	Orange – RAL 2008	(x2) Aluminium – RAL 9006
73.	Gas (sweet)	Orange – RAL 2008	(x1) Red – RAL 3001
74.	Hydrogen	Orange – RAL 2008	(x1) May Green – RAL 6017

Steam and Condensate Lines (Un-insulated)			
75.	HP Steam & VHP Steam Line	Aluminium – RAL 9006	(x1) Yellow – RAL 1023
76.	MP Steam	Aluminium – RAL 9006	(x1) Red – RAL 3001
77.	MLP Steam	Aluminium – RAL 9006	(x1) Orange – RAL 2008
78.	LP Steam	Aluminium – RAL 9006	(x1) Green – RAL 6002
79.	Condensate	Sky Blue – RAL 5015	(x1) White – RAL 9003
80.	Condensate above 150°F	Sky Blue – RAL 5015	(x3) Oxide Red – RAL 3009
81.	BFW	Sky Blue – RAL 5015	(x2) Traffic Red – RAL 3020
Note: For all insulated steam lines, the colour coding shall be followed as given for un-insulated lines with the specified length of colour bands			

Insulated Hydrocarbon Lines			
82.	IFO Supply	Black – RAL 9017	(x1) Yellow – RAL 1023
83.	IFO Return	Black – RAL 9017	(x1) Green – RAL 6002
84.	HPS	Black – RAL 9017	(x1) Red – RAL 3001
85.	Bitumen	Black – RAL 9017	(x2) Red – RAL 3001

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Sl. No:	Service	Base/Ground Colour	Secondary Band Colours
86.	CLO	Black – RAL 9017	(x1) Brown – RAL 8003
87.	VB Tar	Black – RAL 9017	(x2) Brown – RAL 8003
88.	VR AM (Bitumen/VBU Feed)	Black – RAL 9017	(x1) Blue – RAL 5017
89.	VR BH	Black – RAL 9017	(x2) Blue – RAL 5017
90.	VAC. Slop	Black – RAL 9017	(x1) White – RAL 9003
91.	Slop	Black – RAL 9017	(x1) Orange – RAL 2008
92.	Crude Sweet	Dk Grey BS4800 18 B 25	(x1) Red – RAL 3001
93.	Crude Sour	Dk Grey BS4800 18 B 25	(x1) Orange – RAL 2008
94.	VGO/HCU Feed	Oxide Red – RAL 3009	(x1) Signal Grey – RAL 7004
95.	OHCu Bottom/FCCU Feed	Oxide Red – RAL 3009	(x2) Signal Grey – RAL 7004


15. STORAGE

All paints and painting materials shall be stored only in rooms to be arranged by contractor and approved by Engineer in charge for the purpose. All necessary precautions shall be taken to prevent fire. The storage building shall preferably be separate from adjacent building. A signboard bearing the word **"Paint Storage – No Naked Light - Highly Inflammable"** shall be clearly displayed outside. Manufacturer's recommendation shall be followed for storage of paint materials.

16. QUALITY CONTROL, INSPECTION & TESTING

- All painting materials including primers and thinners brought to site by contractor for application shall be procured directly from manufactures as per specifications and shall be accompanied by manufacturer's test certificates. Paint formulations without certificates are not acceptable
- The contractor must produce Test Certificate from Pre-Qualified Paint Manufacturer for various tests as specified in this document, for each batch and for each category of product. The Engineer in charge shall have the right to test wet samples of paint from each batch at random for verifying quality of paint supplied. Contractor shall arrange to have such tests, when called for by Engineer in charge, performed at his cost any one of the independent laboratories listed in this document.

Samples for the test will be drawn at random in presence of Engineer in charge or his

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representations. Following tests to be carried out if called for by Engineer in charge:


- Specific Gravity
- % solids by weight (% zinc content in case of inorganic or organic zinc primer)
- Drying time (touch dry & full curing)
- Adhesion
- Flexibility
- Hardness
- Storage stability (pot life)

Test methods for above tests shall be as per relevant ASTM or ISO Standard.

- The painting work shall be subject to inspection by Engineer in charge at all times. In particular, following stage-wise inspection will be performed and contractor shall offer the work for inspection and approval of every stage before proceeding with the next stage. The record of inspection shall be maintained in the registers. Stages of inspection are as follows:
 - Surface preparation
 - Primer application
 - Each coat of paint

During surface preparation, following tests are to be carried out:

- Test for absence oil and grease after degreasing before blasting.
- Tests for surface finish of blasted surface shall be done by visual inspection using SSPC-VIS1. Clear cellophane tape test as per ISO 8502-9 shall be used to confirm absence of dust on blasted surface. Checks shall be done on each component at least once per 200 m2 of blasted surface and minimum of 3 checks per shift.
- Test for presence of soluble salt as per method ISO 8502-9. Maximum allowable salt content shall be considered 20 mg /m². Checks shall be done on each component at least once per 200 m2 of blasted surface and minimum of 3 checks per shift. In case salt exceeds specified limit, the contaminated surface shall be cleaned by method as per Annexure-C of ISO: 12944-4 (water cleaning). After cleaning surface shall be retested for salt after drying.
- Blast profile measurement
- Test for blasting Media and Blasting air- In addition to above, record should include type of shop primer already applied on equipment e.g. zinc silicate, or zinc rich epoxy, or zinc phosphate.

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Any defect noticed during the various stages of inspection shall be rectified by the contractor to the entire satisfaction of Engineer in charge before proceeding further. Irrespective of the inspection, repair and approval at intermediate stages of work, contractor shall be responsible for making good any defects found during final inspection/guarantee period/defect liability period as defined in general condition of contract. Dry film thickness (DFT) shall be checked and recorded after application of each coat and extra coat of paint should be applied to make- up the DFT specified without any extra cost to owner, the extra coat should have prior approval of Engineer in charge.


- **Primer Application:** After surface preparation, the primer should be applied to cover the crevices, comers, sharp edges etc. in the presence of inspector nominated by Engineer in charge.
- The shades of successive coats should be slightly different in colour in order to ensure application of individual coats, the thickness of each coat and complete coverage should be checked as per provision of this specification. This should be approved by Engineer in charge before application of successive coats.
- The contractor shall provide standard thickness measurement instrument with appropriate range(s) for measuring.
 - Dry film thickness of each coat,
 - Surface profile gauge for checking of surface profile in case of sand blasting.
 - Holiday detectors and pinhole detector and protector whenever required for checking in case of immersion conditions.
- Prior to application of paints on surfaces of chimneys, the thickness of the individual coat shall be checked by application of each coat of same paint on M.S.test panel. The thickness of Paint on test panels shall be determined by using gauge such as 'Elkometer'. The thickness of each coat shall be checked as per provision of this specification. This shall be approved by Engineer in charge before application of paints on surface of chimney.
- At the discretion of Engineer in charge, the paint manufacturer must provide the expert technical service at site as and when required. This service should be free of cost and without any obligation to the owner, as it would be in the interest of the manufacturer to ensure that both surface preparation and application are carried out as per their recommendations. The contractor is responsible to arrange the same.
- Final inspection of finished coating shall consist of measurement of:
 - Paint dry film thickness (DFT),

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- Adhesion, and,
 - Holiday detection check as well as for finish and workmanship.
- Coating DFT measurement shall be as per ISO: 2808. Type II electromagnetic gauges should be used for ferrous substrates. DFT gauge calibration, number of measurement shall be as per SSPC-PA 2. Measured DFT shall be within + 10% of the dry film thickness, specified in the specifications.
 - Adhesion of the primer to the steel substrate and intercoat adhesion of the subsequent coat(s) after curing for at least a week after application of the topcoat shall be examined by a knife-test in accordance with ASTM D6677. For the knife test, if the rating is better than 8, the adhesion is considered acceptable. The adhesion is defective and:-tested areas shall be repaired afterward using the spot repair procedure. Alternatively, the applicator may perform the adhesion test on a steel coupon coated using the same surface preparation and coating application procedure as the work piece. Adhesion testing shall be carried out for each component at least once per 200 m² (2000 ft²) of coated surface.
 - Holiday testing shall be conducted in accordance with NACE SP0188. For immersion services, 100% of coated area shall be inspected for holidays. For atmospheric exposure, 10% of coated area which must include weld seams, corners and edges to be holiday tested. Voltage at which test is to be carried out will depend upon DFT of coating being tested and shall be as per NACE SP0188. Any holiday is unacceptable and should be marked and repaired immediately.
 - The contractor shall arrange for spot checking of paint materials for Specific gravity, glow time (ford cup) and spreading rate.
 - **Final Inspection of coating system:**

A final inspection shall be conducted prior to the acceptance of the work. The Contractor and the Owner / Engineer in charge shall both be present and they shall sign an agreed inspection report. Such reports shall include:

 - General
 - Names of the painting Contractor and the responsible personnel
 - Dates when work was performed
 - Painting Materials

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- Information on painting materials being applied
- Condition of painting materials received
- Environmental Conditions
 - Weather and ambient conditions
 - Painting periods
- Surface Preparation
 - Condition of surface before preparation
 - Tools and methods used to prepare surface
 - Condition of surface after preparation
- Painting Application
 - Equipment used
 - Mixing procedure prior to application
 - Coating application techniques used
- Testing
 - Type and calibration of inspection instruments used
 - Type of quality control tests performed, and results

17. **GUARANTEE**

The Contractor shall guarantee that the chemical and physical properties of paint material used are in accordance with the specifications contained herein / to be provided during execution of work.

18. **QUALIFICATION CRITERIA OF PAINTING CONTRACTOR / SUB-CONTRACTOR**



Painting contractor who is awarded the contract for painting by the Owner, must have necessary equipment's, machinery, tools and tackles for surface preparation, paint application and

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inspection. The contractor must have qualified, trained and experienced surface preparator, paint applicator, inspector and supervisors. The Contractor supervisor, inspector, surface preparator and paint applicator must be conversant with the standards referred in this specification.

19. **QUALIFICATION / ACCEPTANCE CRITERIA FOR PAINT COATING SYSTEM**

- Pre-Qualification of Paint Coating Manufacturer and his Products
Paint / coating manufacture meeting the following requirements shall be considered for supply of their products. Contractor is advised to select coating manufacturer. Only after obtaining prequalification from Owner for the manufacturer based on following requirements. Even those manufacturers, whose names are appearing elsewhere in the tender document, under the list of "Owner Recommended or Approved Vendors", will also be required to meet the following prequalification requirements.
 - Manufacturer should have been in continuous business of paint / coating formulation and manufacturer for at least past 5 years.
 - Manufacturer should possess past experience of supplying his products to hydrocarbon processing industry or offshore platforms in the past 5 years.
 - Coating manufacturer should have supplied at least 10000 litre of an individual product to hydrocarbon processing industry or offshore platform.
 - The manufacturer's manufacturing procedure & QA/QC system shall meet ISO 9001 Requirements and preferably should possess ISO 14000 certificate.
 - The Quality control set up should be manned by qualified paint technologists whose bio data should be sent along with quality control organization chart.
- Pre-Qualification Testing:
Manufacturer should have got his products tested at least one time in last 3 years at a reputed independent laboratory for the following test items. Test certificates which are more than 3 years old will not be considered.

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Test	Test Method
Specific gravity	ASTM D1475
Dipping properties	ASTM D823
Film characteristics	-
Solid content by weight	ASTM D2369
Drying Time	ASTM D1640
Flexibility	ASTM D1737 / D522
Hardness	ASTM D3363
Adhesion	ASTM D2197
Abrasion resistance	ASTM D968/ D1044
DFT/coat	As per SSPC guidelines
Storage Stability	ASTM D1849
Resistance to moisture vapour permeability for 2000 hrs	ASTMD2247
Cyclic Test for the duration of 4200 h (25 cycles a 168 hours)	ASTM D5894
% Zn in Dry film for Inorganic Zinc Silicate primer	-
Chemical Resistance test - 10% & 40% NaOH (applicable only for F-6 & F-15) - 10% H ₂ SO ₄ (applicable only for F-6 & F-15) - 10% Nitric Acid test (applicable only for F-6 & F-15) - Benzene / Toluene (applicable only for F-6 & F-15) - Kerosene (applicable only for F-6 & F-15) - Sea water (applicable only for F-6 & F-15) - MIBK test (applicable only for F-6 & F-15)	ASTM D543
Resistance to water using water immersion (applicable only for F6-, F-7, F-8, F-14 & F-15)	ASTM D870
Dry Heat Resistance test (applicable only for F-9, F-6AIB, F-2, F-15, F-16, Polysiloxane, heat;:resistance Al silicone)	ASTM D2485
Thermal shock resistance test (only for F-9, F-6, Polysiloxane)	ASTM D2485 - 91
Cathodic Disbondment Test	ASTM G42 @60 deg C

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- Each coating product to be qualified shall be identified by the following
 - An infrared scan (fingerprint), for Part A and B, each component as per ASTM D2621
 - Specific gravity of Base and curing agent (Ref. ISO 2811)
 - Ash content (ASTM 01650), volatile and non-volatile matters (ISO 3251) of each component
- The identification shall be carried out on the batch, which is used for the Pre-qualification testing. Pre-qualification of the products shall be carried out at an independent laboratory.
- Test shall be carried out at any one of the following laboratories and tests to be witnessed & certified by third party inspection agency (TUV, BY, DNV)
 - IICT, Hyderabad
 - HBTI, Kanpur
 - DMSRDE, Kanpur
 - BIS Laboratories
 - UICT, Matunga, Mumbai
 - UTES, Kolkata
 - PDIL, -Sindri
 - NTH, Kolkata
- Contractor shall furnish to Owner for approval / acceptance of all necessary documents / information including test certificates to prove that the paint manufacturers, from whom he intends to procure paint products, meet the various requirements for fulfilling the pre-qualification criteria as given above. The paint manufacturer shall be qualified and approved for supply after review / assessment of the submission made by the contractor.
- Contractor along with delivery of paint material has to furnish following information from paint manufacturer to Owner for acceptance / approval of products.
 - a) Batch test certificates (Batch Testing)

Contractor has to produce test certificate from paint manufacturer for each batch and for each category of product for the following test items. Test to be witnessed & certified by third party inspection agency. All test results must mention clearly the batch no. and category of product tested. Tests to be conducted for following properties:

 - Infrared scan for Part A and B, each component
 - Specific Gravity
 - % solids by weight (% zinc content in case of inorganic or organic zinc primer)
 - b) Product information sheet Technical data sheet for each category of product.

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20. **METHOD OF SAMPLING & DISPATCH FOR LABORATORY TESTING**

(Pre-Qualification tests, Batch testing and Inspection testing)



Samples of coating materials should be submitted to the Govt. laboratory in sealed containers with batch no. and test certificate on regular format of manufacturer's testing laboratory. The sampling shall be certified and sealed by a certifying agency.

All test panels should be prepared by Govt. testing agency coloured photographs of test panels should be taken before and after the test and should be enclosed along with test report.





Sample batch no. and manufacturer's test certificate should be enclosed along with the report. Test report must contain details of observation and rusting if any, as per the testing code.

Manufacturers should intimate the company, details of sample submitted for testing, name of Govt. testing agency, date, and contact personnel of the govt. testing agency. At the end of the test the manufacturer should submit the test reports to the company for approval.

Coating systems for panel test shall be decided after discussion with Owner.

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JOB SUPPLY SPECIFICATION FOR FITTINGS SMALL BORE 1 ½" AND BELOW

			 <small>Written By</small> <small>Karthikeyan Chokkalingam</small> <small>2019.10.10 17:50:56 +05'30'</small>	 <small>Checked By</small> <small>Subramanian Ananthugan</small> <small>2019.10.11 08:45:29 +05'30'</small>	 <small>Approved By</small> <small>Vaidyasubramaniam V</small> <small>2019.10.11 12:12:43 +05'30'</small>	 <small>Authorized By</small> <small>Masachandrasekar Suresh</small> <small>2019.10.12 21:00:24 +05'30'</small>
A	9-OCT-2019	ISSUED FOR DESIGN	CK	AS	VV	JM
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	AUTHORIZED

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1. INTRODUCTION

INDIAN OIL CORPORATION LIMITED (IOCL) has awarded Fax of Acceptance (FOA) dated 29th August 2019 to M/s. Technip India Limited (TPIL) for Consultancy services (PMC/EPCM services) for overall project management, FEED Review / FEED, Detailed Engineering, Procurement & expediting services, Tendering & award, Construction Management & Supervision, Assistance in start-up, Commissioning & performance test runs for installation of a Standby SRU of 525 TPD capacity and execution of Additional tanks for Paradip Refinery, Odisha, India

2. DEFINITIONS & ABBREVIATIONS

Abbreviation	Definition /Expanded form
IOCL/ CLIENT	Indian Oil Corporation Limited
PMC/ CONSULTANT	Technip India Limited
LICENSOR	Party selected by IOCL for process technology ownership for any UNIT
CONTRACTOR	Party whose services are obtained for performing the works specified as part of LSTK / packages.
EPCM	Engineering, Procurement & Construction Management Services.
LSTK	Lump Sum Turn Key portion of the work to be executed by CONTRACTOR
FEED	Front End Engineering Design
AUTHORISED REPRESENTATIVE	IOCL's/ CONSULTANT's representative authorized to act for and on behalf of them.
VENDOR	Any third party supplying the equipment/materials for setting up the Plant
PROJECT	Indicates Standby SRU and Additional tanks Project, Paradip Refinery
UNIT	Indicates any particular portion of the project to be built which can be Process related or Utilities/Offsites related
SRU	Sulphur Recovery Unit
ASME	American Society of Mechanical Engineers

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API	American Petroleum Institute
P&ID	Piping and Instrumentation Diagram
A/G	Above Ground
U/G	Under Ground
B/L	Battery Limit
ISBL	Inside Battery Limit
EOT	Electrically-operated Overhead Travelling
MTO	Material Take Off

3. **SCOPE**



This specification defines the technical requirements of carbon steel, alloy steel and stainless steel fittings of various types such elbows, tees, reducers, caps, weldolets, sockolets, threadolets, couplings, unions, plugs, nipples etc. commonly used in refineries, petro-chemical and other chemical / industrial plants.

Cast iron, non-metals, and other special design / special materials fittings etc. are not covered herein. However the specification may be used for any other type of fittings of different design or material of construction by suitably specifying additional requirements as may be applicable.

The requirements specified here are supplementary to Piping Material Specification (PMS).

4. **TERMINOLOGY**

MR	Material Requisition
PR	Purchase Requisition
PO	Purchase Order
CS	Carbon steel
LTCS	Low Temp. Carbon Steel
AS	Alloy Steel
SS	Stainless steel



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WN	Welding Neck
BW	Butt Weld
SW	Socket Weld
SCRD	Screwed
DP	Dye-Penetrant Test
MP	Magnetic Particle Test
NDT	Non Destructive Testing
NPT	National Pipe Threads
PMI	Positive Material Identification
IGC	Inter Granular Corrosion
HIC	Hydrogen Induced cracking
SSC	Sulfide stress cracking
CRYO	Cryogenic
IBR	Indian Boiler Regulations
AARH	Arithmetic Average Roughness Height
BHN	Brinell Hardness Number
ITP	Inspection Test Plan
TPI	Third Party Inspection
MOC	Material of Construction
PBE	Plain both Ends
TBE	Threaded both Ends
TOE	Threaded one End
TSE	Threaded small end
TLE	Threaded large end



5. REFERENCE CODES & STANDARDS

The following codes shall be applicable, however purchaser may specify any other relevant code for any purpose at any time. The codes latest edition as on date of issue of material requisition shall be applicable. Some BS codes may have been superseded by ISO / BS –EN codes, the latest one shall be acceptable.

Code /Std. No	Description
API 5L	Specification for line pipe
ASME Sec 8 Div.1 UW-51	ASME Boiler and Pressure Code
ASME B1.20.1	Pipe Threads, General Purpose (Inch)

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ASME B16.5	Pipe Flanges and Flanged Fittings
ASME B16.9	Factory –Made Wrought Buttwelding Fittings
ASME B16.11	Forged Fittings, Socket Welding and Threaded
ASME B16.25	Butt Welding Ends
ASME B31.1	Power Piping
ASME B31.3	Process Piping
ASME B36.10	Welded and seamless Wrought Steel Pipe
ASME B36.19	Stainless Steel Pipe
MSS SP-25	Standard Marking System for Valves, Fittings, Fittings, and Unions
MSS SP-83	Class 3000 Steel Pipe Union, Socket Welding and Threaded
MSS SP-97	Integrally Reinforced Forged Branch Outlet Fittings – Socket Welding, Threaded and Buttwelding Ends
NACE MR0103	Materials Resistant to Sulphide Stress Cracking in Corrosive Petroleum Refining Environments
NACE MR0175 / ISO 15156	Petroleum, Petrochemical and Natural Gas Industries – Materials for Use In H ₂ S-Containing Environments in Oil And Gas Production.
IS 1239 PART-II	Specification for Mild Steel Tubes, Tubulars and other Wrought Steel Fittings
IS 4736	Specifications for hot dip galvanized coatings on steel.
BS 3799	Specification for Steel Pipe Fittings, Screwed and Socket Welding for the Petroleum Industry
BS EN10204	Metallic Products – Type of Inspection Documents
ASTM Standards	As specified or relevant
080557C-000-SP-1390-009	Specification for colour coding of piping materials by vendors
080557C -000-JSS-1320-001	Job Supply Specification for Pipes

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6. **GENERAL REQUIREMENTS**

- Fittings shall be manufactured, inspected and marked as per the manufacturing standards. Any conflict between the requisition, enclosures, and referred standards shall be brought to the notice of the purchaser for clarifications and resolution before proceeding with the manufacture. The purchaser's decision shall be final and binding to the vendor. No deviations shall be permitted except as communicated in writing in deviation permits.
- Fittings dimension, tolerances, chemical composition, physical properties, heat treatment, hydro-test (if applicable), and other testing requirements shall conform to relevant codes / standards, latest editions (including their supplementary requirements) as specified in the material requisition. Deviation from the above, if any, shall be specifically highlighted to the purchase by the vendor.
- Any conflicts between requirements of this specification, related standards and other attached documents shall be referred to the purchaser for clarification before proceeding with the manufacture, fabrication and procurement of the disputed part.



7. **DESIGN REQUIREMENTS**

7.1 **Fitting Dimensions:**

- Fittings dimensions up to 1 1/2" size shall conform to ASME B 16.11.
- Forged steel socket welded and threaded fittings shall be in accordance with ASME B16.11 unless otherwise noted. For items not covered under B16.11 reference may be made to BS 3799 or appropriate MSS-SP Std.
- Special fittings like weldolets sockolet, threadolet etc. which are not covered in ASME, MSS-SP shall be as per manufacturer's std. Contours of these fittings shall meet the requirements of ASME B31.3. Manufacturer shall submit drawings / catalogues of these items along with the offer.
- Threaded ends shall have NPT taper threads in accordance with ASME B1.20.1.

7.2 **Fittings End Schedule / Thickness:**

- Fittings outside diameter and schedule / wall thickness shall match pipe schedule as per ASME B36.10 / B36.19 / API 5L as the case may be. Sloping of inside contour of fittings shall be done wherever necessary to achieve this.
- For reducing butt weld fittings having different wall thickness at each end, the greater wall thickness of the fitting shall be employed and inside bore at each end shall be matched with the specified inside diameter.
- Bore of fittings shall correspond to the inside diameter of pipe for specified schedule / wall thickness. Ends shall be bevelled to suit the specified schedule/ thickness.
- Fittings ends shall be in accordance with ASME B16.11.

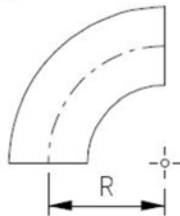
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- Fittings wall thickness /schedule shall conform to the material requisition. Wall thickness higher or lower than the specified shall not be accepted.

7.3 Bends radius 5D, 6D and 10D

- These elbows are realized in accordance with B31-3. Upstream and downstream of each bending the straight length left during fabrication (and necessary to maintain the pipe) will be cut after bending.
- The bends welded from sectors should not be used. Ends will be beveled ends as per ANSI B16.25 or plain ended as specified in the PMS.
- Elbow will have no apparent folds due to the bending operation on the intrados. The elbows will have no apparent stripes or scratches due to the machinery on bending operation. All variation of internal diameter must be reduced. If any, this variation of internal diameter between straight pipe and bending must be smooth.

Radius = "R": Tolerances: +/- 1% max.
ELBOW 90°





- Example: For 4" pipe diameter, 5D means R=500 mm / 6D means R=600mm,...
- Outside diameter at ends: Tolerance is +/- 3 mm for Diameter 10" and more.
- Thickness: The wall thickness reduction must be less than 12.5% of nominal thickness.
- After cold bending the bent sections of pipes made of carbon and low-alloy steels should be heat treated, if the ratio of the bend's mean radius to the nominal outside diameter of the pipe is less than 3.5, and the ratio of the nominal pipe wall thickness to its nominal outside diameter exceeds 0.05
- Bent sections of pipes made of austenitic steels should be heat treated regardless of pipe diameter and wall thickness.

7.4 Bevelled Ends:

All butt weld fittings shall have ends bevelled as per ASME B16.25. The weld contour shall be as follows.

Pipe Material	Pipe Wall Thickness	Weld Contour
---------------	---------------------	--------------

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Carbon Steel (Except Low Temp. Carbon Steel)	Up to 22 mm	Figure 2 Type A
	> 22 mm	Figure 3 Type A
Alloy Steel, Stainless Steel & Low Temp. Carbon Steel	Up to 10 mm	Figure 4
	> 10 mm & Up to 25 mm	Figure 5 Type A
	> 25 mm	Figure 6 Type A



8. **MATERIALS**

8.1 **General:**

- Material shall be strictly adhered to as specified in the material requisition. Any substitution of materials shall require the prior written approval of purchaser.
- Forged fittings shall conform to the material specified, substitution of materials shall not be considered.
- Swage nipples (concentric / eccentric) if specified as pipe materials are acceptable in forging materials (up to 1 ½") made of corresponding CS/AS/SS material grades.
- Carbon steel used for fabrication of fittings shall be produced by open hearth, electric furnace or basic oxygen process. Vendor shall procure forging and other materials from approved sources only in case of outsourcing. Source of supplies shall be indicated in vendor's offer and prior approval is necessary for any changes later.
- Material used in the fabrication of all types of fittings shall be new without any corrosion, dents or other damage of any kind.
- All seamless pipes employed for manufacturing of fittings shall be required to have undergone hydro test to ASTM A530.
- All fittings shall be seamless in construction unless otherwise specified in detail description. Welded fittings shall not be acceptable in place of seamless fittings, however seamless fittings shall be provided in case of welded fittings provided it shall have a maximum negative tolerance on wall thickness of 0.3mm.
- Copper or copper alloys shall not be used in any part of the fittings that comes into contact with process fluid (subjected to licensor requirements).
- Structural steel grade such as IS2062, SA 36 or any other structural steel grade material shall not be used for manufacture of fittings.

8.2 **Design and Manufacturing:**

- Threaded fittings shall be class 3000 or 6000 as specified in MR. Class 2000 fittings shall not be supplied.
- Socket welding fittings shall be class 3000, 6000 or 9000 as specified in MR.
- Correlation of fitting class with pipe schedule shall generally conform to table-7 of ASME B 16.11 unless specified otherwise in MR.
- Unions shall be in accordance with MSS-SP-83, Threaded unions used for utility services shall be limited to 3000 Class, and unions of higher class shall not be used.
- Plugs shall be heavy hexagonal fabricated from solid bar stocks of compatible material as

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the valves or fittings.

- Length of long half couplings shall be 100 mm unless otherwise specified in MR

8.3 **Chemical Composition:**



- Carbon steels including normalised grade shall have the Carbon content and Carbon equivalent (CE) as specified in the relevant code or as mentioned specifically in the material requisition. However, as a general, the Carbon content should not be more than 0.22% max. (For ferritic alloy steel, 0.14% max.) and CE should not be more than 0.43 for fittings intended for welding.
- The Carbon equivalent may be established by using the formula

$$CE = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15$$

- All materials shall be supplied in a normalised condition. All impact tested carbon steel supplied to ASTM A 350 LF2 shall be class 1.
- Material supplied to ASTM A 516 Gr. 60- 70 shall be impact tested in accordance with the requirements of ASTM A 350, with test temperature and acceptance criteria in accordance with Grade LF2 class 1.
- Dual Marked Stainless Steel (e.g. 316/316L) shall be supplied provided that the chemical and mechanical properties comply with the requirements of both grades.
- L-grade Stainless Steel can be supplied in substitution of relevant dual marked under Client approval.

8.4 **Heat Treatment:**

- All welded fittings shall be normalised for CS and normalised and tempered for AS and 100% radio graphed by X-ray on all welds made by fitting manufacturers and also on the parent materials, in accordance with paragraph UW-51 of ASME boiler and pressure vessel code, Section-VIII, Division 1.
- All 1 Cr. – ½ Mo and 1 ¼ Cr. – ½ Mo and 2 ¼ Cr. – 1 Mo, 9Cr-1Mo fittings shall be normalized and tempered. The normalizing and tempering heat treatment shall be a separate heating operation, not the hot forming operation.
- For all 1Cr.- ½ Mo and 1 ¼ Cr. – ½ Mo and 2 ¼ Cr. – 1 Mo, 9Cr-1Mo, the maximum room temperature tensile strength of all pressure retaining components and welds shall be 100,000 psi (7030 kg/cm²).
- For all 1Cr. - ½ Mo and 1 ¼ Cr. – ½ Mo and 2 ¼ Cr. – 1 Mo , 9Cr-1Mo, accelerated cooling from the austenitizing temperature is acceptable, where permitted by the applicable product from specification.
- All stainless steel fittings shall be supplied in solution heat-treated and pickled & passivated condition. Solution annealing for stainless steel fittings shall be carried out again after weld repairs.
- All types of 321 or 347 stainless steel fittings whose service temperature is above 454°C (Subjected to Licensor requirements) shall be in a stabilised heat treated condition.

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Stabilizing heat treatment shall be carried out subsequent to the normal solution annealing. Soaking time and holding temperature for stabilizing heat Treatment shall be 4 hours and 900° C respectively.

- All fittings shall be heat treated in accordance with the applicable code / standard requirements.
- Fittings with heat treatment shall be stamped with heat number.
- The bevel ends of all butt weld fittings shall undergo 100% MP/DP test.
- Fittings shall be stress relived in accordance with applicable material specifications.

9. **IMPACT TEST**

When impact testing is required as per Table 323.2.2 of ASME B31.3, it shall be done in accordance with Table 323.3.1 using the testing methods and acceptance criteria described in paragraphs 323.3.2 through 323.3.5.



Test temperature, unless specifically called for otherwise in the individual material requisition, shall be –45°C for LTCS and –196°C for all grades of austenitic stainless steels in cryogenic service.

10. **INTER-GRANULAR CORROSION (IGC) TEST**

- For all austenitic stainless steel fittings intergranular corrosion (IGC) test shall have to be conducted as per following.
- ASTM A262 Practice 'B' with acceptance criteria of '60 mils/year (max.)' for all materials - forged, rolled, wrought and casting.

OR

- ASTM A262 Practice 'E' with acceptance criteria of 'No cracks as observed from 20X magnification' for all materials other than castings. 'Microscopic structure shall be observed from 250X magnification in addition.
- For IGC test two sets of samples shall be drawn from each Solution annealing lot; one set corresponding to highest carbon content and other set corresponding to the highest rating and the other to highest pressure rating. When testing is conducted as per Practice "E", photograph of microscopic structure shall be submitted for record.
- For some austenitic stainless steel grades such as SS309, 310, 316, 316H, etc. ASTM A262 Practice 'C' with acceptance criteria of '15 mils / year (max.)' shall be conducted, wherever specified in material requisition.

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11. SPECIAL REQUIREMENTS

11.1 IBR Requirements:

- Fittings under the purview of "IBR"(Indian Boiler Regulations) shall each be individually accompanied by IBR certificate original in Form III-C duly approved by IBR authority / local authority empowered by the Central Boiler Board of India. Photocopy of original certificate duly attested by the local boiler inspector where the supplier is located is the minimum acceptable requirement.
- For carbon steel fittings under IBR the chemical composition shall conform to the following:

Carbon (Max.) : 0.25 %

Others (S ,P & Mn) : "As prescribed in IBR regulations"

- For materials 1 ¼ Cr – ½ Mo (ASTM A182 Gr.F11 Cl.2.) & 2 ¼ Cr- 1 Mo (A182 Gr.F22 Cl.3) where fittings are manufactured from pipes, from IIIC approved by IBR should include the tabulation of E_t, S_c & S_r values for the entire temperature range given below.

E_t, S_c & S_r values shall be such that throughout the temperature range.

$$\left. \begin{array}{l} E_t/1.5 \geq \\ S_r/1.5 \geq \\ S_c \geq \end{array} \right\} S_A$$



S_A (PSI)												
TEMP (F) MATERI AL	500	600	650	700	750	800	850	900	950	1000	1050	1100
A182 GR.F11 /Cl.2.	20000	20000	20000	20000	19700	19200	18700	13700	9300	6300	4200	2800
A182 GR.F22 /Cl.3.	20500	20400	20200	20000	19700	19300	18700	15800	11400	7800	5100	3200

NOTE:

S_A values are from ASME B31.1. Values shall be as per the latest edition.

S_A : Allowable stress at the working metal temperature.

E_t : Yield point (0.2% proof stress at the working metal temperature).

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S_c : The average stress to produce elongation of 1%(creep) in 100000 hrs at the working metal temperature.

S_r : The average stress to produce rupture in 100000 hrs at the working metal temperature and in no case more than 1.33 times the lowest stress to produce rupture at this temperature.

11.2 **Hydrogen Service:**

These special requirements are applicable for the fittings to be supplied for Hydrogen service as marked "Hydrogen Service" in material requisition.

- **Carbon Steel:**

All carbon steel fittings shall be normalized. The normalizing heat treatment shall be a separate heating operation and not a part of the hot forming operation.

All carbon steel fittings having wall thickness 9.53 mm and above shall be normalized Cold drawn pipes and fittings shall be normalized after the final cold draw pass for all thicknesses. In addition, fittings made from forgings shall have Carbon - 0.35% max and Silicon - 0.35% max. The normalizing heat treatment shall be a separate heating operation and not a part of the hot forming operation.

All carbon steel fittings having wall thickness 19 mm and above shall be post weld heat treated.

- **Alloy Steel:**

All alloy steel (Cr-Mo) fittings shall be normalized and tempered. The normalizing and tempering shall be separate heating operation and not a part of the hot forming operation. The maximum room temperature tensile strength shall be 100,000 psi.

All alloy steel (Cr-Mo) fittings shall be post weld heat treated irrespective of type or thickness of weld.

For 9Cr-1Mo-V Grade 91 material all requirements shall be as per API 938 B-2008.



Alloy 825 fittings welds shall be 100% radiographed.

- **Stainless steel:**

All austenitic stainless steel grades shall be solution annealed after welding. 100% radiography of welded joints shall be done both before and after PWHT.

For all austenitic stainless steels, the weld deposit shall be checked for ferrite content. A Ferrite No. (FN) not less than 3% and not more than 10% is required to avoid sigma phase embrittlement during heat treatment. FN shall be performed in the "as welded" condition by Ferrite scope prior to post weld heat treatment.

- **Impact test:**

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For all carbon steels and alloy steels fittings with thickness over 19 mm, Charpy -V Notch impact testing shall be carried out in accordance with paragraph UG-84 of ASME Section VIII, Div-1 for weld metal and base metal from the thickest item per heat of material and per heat treating batch. Impact test specimen shall be in complete heat treated condition and in accordance with ASTM A370. Impact energies at 0° C shall average greater than 27J (20 ft-lb) per set of 3 specimens, with a minimum of 19J (15 ft-lb).

If welding is used in manufacture, impact test of Heat Affected Zone (HAZ) and weld metal shall also be carried out.

- **Hardness:**

For carbon steel fittings hardness of weld and HAZ shall be limited to 200 BHN (max).

For alloy steel fittings, hardness of weld and HAZ shall be limited to 225 BHN (max).

- **Radiography:**



All girth welded joints (longitudinal and circumferential) shall be 100% radiographed in accordance with UW-51 of ASME Section VIII, Div-1 and ASME Section V.

11.3 **NACE / Sour (Wet H₂S) Service**

- All items under this category shall generally be as per NACE MR0103 latest edition. Where NACE MR 0175 is specified, same shall be applicable.
- All steels shall be fully killed and fine grained.
- Hardness of the production weld shall be lower than 200 HB. This value is slightly lower than the one defined for the base metal (22 HRC or 237 HB) in order to anticipate potential non- homogeneity of certain weld deposits.
- The steel making process shall produce steel with high resistance to hydrogen sulphide attack i.e. HIC & SSC.
- All steels shall be manufactured by either basic oxygen or electric furnace process only.
- Carbon content shall be limited below 0.20 % w.
- CS base material shall be supplied in normalized condition (or quenched and tempered), regardless of thickness.
- Thermal stress relieving (PWHT) required for seamless piping welds as minimum, even if it is not required by code.
- Thermal stress relieving required for cold bend zones even if it is not required by code. Level of deformation may require recovery annealing to restore properties of steel.
- Carbon equivalent (CE) shall be limited to 0.43

$$CE = C\% + Mn\% / 6 + (CR\% + Mo\% + V\%) / 5 + (Ni\% + Cu\%) / 15$$

- S & P % shall be within 0.010 & 0.020 wt % respectively. Ni shall be less than 1%.

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- Fittings where specified HIC and or NACE, in the material requisition shall comply with latest edition of NACE standard specified.

FITTINGS (ELBOWS, TEES, REDUCERS, CAPS, COUPLINGS, SWAGES, WELDOLETS & SOCKOLETS)

Chemical composition as per Table 1 as specified against each product are permitted.

Table-1
Chemical composition for Fittings

Element	Percentage
C	0.20 % max
Mn	1.35 % max
Si	0.10 % to 0.35 % max
P	0.02 % max
Ni	0.20 % max
S	0.020 % max
Other	As per specification
Pcm	0.21 % max
CE	0.40 % max

Impurity level shall be controlled to avoid the occurrence of brittle phases during fabrication process or welding.

Fittings may be supplied in quenched and tempered or normalised or normalised and tempered condition. However, all bends by induction heating shall be tempered afterwards to meet hardness requirements.

- Chemical Composition:**



This shall be carried out on heat as well as on finished product as per relevant product material specifications and shall meet the requirements on Table-1.

- Mechanical Properties**

The following mechanical properties shall only be acceptable over and above that specified in the relevant product material specification.

Ultimate Tensile Strength = 77000 psi (max) on finished product

Ratio of yield to tensile strength shall not exceed 0.8 on finished product.

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- **Hardness Test**

Max hardness shall be limited to HRC -22 or 248 HV5 or 237 BHN & Measurement shall be as per ASTM E -18 or E-92 or ASTM E-10.

Hardness test shall be conducted on sample of each heat and on each finished product. Waiver may be given only for those products which can get damaged due to hardness test. For small products which cannot be hardness tested individually the manufacturer shall be conduct test on a random basis by selecting component from production run or stores batches to ensure that the product complies fully with hardness requirement. The products for which hardness values are found in excess of specified value shall be rejected. If the hardness on the sample of heat is more than the acceptable value, then the entire raw material from the heat shall be rejected.

- **HIC Test**

This shall be carried out on one finished product (material-wise & type of constructions wise i.e. seamless and welded separately) per heat irrespective of size/thickness/type of fittings. HIC test requirement is as follows.

Forged : HIC testing is not required if chemical composition does not exceed Table-1 limits. Otherwise HIC test shall be carried out.

SSC test is not required. But in case of deviation of S & P % from Table-1 or the chemical analysis of the finished product or UTS being greater than 77000 psi the manufacturer shall either conduct SSC test on every heat successfully OR reject all the finished products made from that heat.



- **Selection of Test Samples**

A. Test specimen shall be taken from per heat of the finished product. Where the specimen cannot be taken from the finished product, a representative test specimen shall be taken from the same heat, heat treated in the same batch or charge as the product and shall undergo the same amount of working as the most worked section of the finished product.

B. In case the finished product is welded type, the test piece shall include the parent metal, weld metal and HAZ.

12. INSPECTION AND TESTING

- Vendor shall comply with the inspection test plan (ITP) for fittings attached to the material requisition as a minimum.
- However a detailed inspection and test plan (ITP) shall be submitted for review by the

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purchaser along with bids. All fittings will be subject to inspection in accordance with the purchaser approved inspection and test plan (ITP).



- The certificates shall be issued, stamped and signed by the material manufacturer's inspector, who shall be independent of the manufacturer's production department. This certificate shall also be stamped and verified by the manufacturer's QA/QC department.
- Every fitting shall be subjected to all mandatory tests and checks called in the respective codes by purchaser or any third party as approved by the purchaser. For IBR fittings refer IBR requirements.
- Purchaser or his authorised representative (third party) will carry out stage wise inspection. All assistance shall be provided for the same and timely co-ordination shall be the responsibility of the vendor.
- All material test report for physical property, chemical composition, heat treatment, etc. shall be submitted for all mandatory and supplementary tests specified in accordance with applicable codes /standards or attached specifications.

13. POSITIVE MATERIAL IDENTIFICATION (PMI)

- Positive Material Identification (PMI) shall be performed as per the scope and procedures defined in specification for Positive Material Identification attached with the material requisition, on completion of all manufacturing activities including marking.
- All alloy materials tested by PMI shall be identified using either of the following methods by indicating "PMI OK"
 - Bar Code/ Hologram Sticker
 - A low stress stamp marking
 - Any other method

14. MARKING & PAINTING

- Marking shall be legible and carried out in accordance with ASME /ASTM /API /MSS/ codes as applicable.
- Marking shall be carried out by attaching corrosion resistant metal tags for small bore fitting up to 1 ½" size, the tags shall be securely attached to each package.
- All components shall additionally be hard stamped or vibro etched with heat number. For components manufactured from austenitic steel, marking shall be by vibro etching. Carbon steel and impact tested carbon steel shall be marked by round nosed low stress stamps.
- Paint / ink used for marking shall be free of any harmful metal or metallic salts such as zinc, lead or copper which may cause corrosive attack on heating, with particular attention being paid to austenitic steel.
- In addition to the marking requirements of the relevant product standard and MSS SP-25, the following information shall be marked on each component:

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- Type of fitting
- Nominal diameter
- Schedule / Wall thickness
- MOC with grade
- Purchase order number
- Commodity code No./ SAP code No. (if any).
- Special items shall also be marked. Like "IBR", "CRYO", "NACE"
- All fittings shall be painted as per specification for colour coding of piping materials by vendors Doc No.080557C-000-SP-1390-009.
- For easy identification, fittings shall be painted as per above Spec. additionally fittings for following speciality services shall also be identified by colour markings as per below

IBR: Red, CRYO: Light Purple, NACE: Canary Yellow, HIC: Dark Brown

15. PROTECTION

- All fittings shall be well protected against corrosion and mechanical damage and kept dry, clean and free from dirt, moisture, or loose foreign materials of any kind.
- Stainless steel fittings shall be protected from the risk of saline corrosion during shipment.
- Rust preventive coating on machined surfaces to be welded shall be of easily removable type and shall not be harmful for welding.
- Fittings ends shall be suitably protected and the protectors shall be securely and tightly attached.



Beveled end	:	Wood, metal or plastic cover
Plain end	:	Plastic cap
Screwed end	:	Plastic cap
- Butt-welding ends of fittings, machined surface (Threads, Bevel end, etc.) shall be coated with a corrosion inhibitor. Steel end protectors for galvanized items shall be galvanized.

16. DESPATCH

- All fittings shall be supplied in separate seaworthy packing / bundles / lots item-wise, size / sch. wise, MOC wise, etc. Packing list shall be included as part of each package.
- Each packing / bundle / lot shall be marked with purchase order No., commodity code No., size, schedule / MOC etc..

17. CERTIFICATION & TRACEABILITY

Material certificates for all fittings shall be in accordance with EN 10204 type 3.1. All certificates shall be fully traceable to the item covered and shall be marked with the Purchasers order number, commodity code and tag/part number. They shall be clearly legible, in the English Language.

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18. DOCUMENTATION

Vendor shall submit the documents with the offer as specified in the MR.





- If there is any deviation from the "Purchase Specification for Fittings", the same shall be listed clause wise. Even clauses which are acceptable shall be categorically confirmed as "Accepted". The Purchase Specification for fittings marked with deviations shall be returned with offer duly signed and stamped as token of acceptance. Clauses which are not relevant to the supply may be cross marked and mentioned "NA".
- Material test certificates for physical properties, chemical composition and heat treatment etc. shall be furnished.

19. OTHER REQUIREMENTS

- Guarantee/ Warranty, Quality plan, Inspection, PMI, documentation requirements and others shall be governed by purchase requirements attached with the material requisition.

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SPECIFICATION FOR POSITIVE MATERIAL IDENTIFICATION AT VENDOR'S WORKS

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REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	AUTHORIZED

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 	PROJECT		Standby SRU & Additional Tanks	
	CLIENT		IOCL Paradip Refinery	
SPECIFICATION FOR POSITIVE MATERIAL IDENTIFICATION AT VENDOR'S WORKS		Project No. 080557C001	Document No. 080557C-000-JSS-6300-0002	Rev. No. A
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1. Introduction:

INDIAN OIL CORPORATION LIMITED (IOCL) has awarded Fax of Acceptance (FOA) dated 29th August 2019 to M/s. Technip India Limited (TPIL) for Consultancy services (PMC/EPCM services) for overall project management, FEED Review / FEED, Detailed Engineering, Procurement & expediting services, Tendering & award, Construction Management & Supervision, Assistance in start-up, Commissioning & performance test runs for installation of a Standby SRU of 525 TPD capacity and execution of Additional tanks for Paradip Refinery, Odisha, India.

2. Definitions & Abbreviations



Abbreviation	Definition /Expanded form
IOCL/ CLIENT	Indian Oil Corporation Limited
PMC/ CONSULTANT	Technip India Limited
LICENSOR	Party selected by IOCL for process technology ownership for any UNIT
CONTRACTOR	Party whose services are obtained for performing the works specified as part of LSTK / packages.
EPCM	Engineering, Procurement & Construction Management Services.
LSTK	Lump Sum Turn Key portion of the work to be executed by CONTRACTOR
FEED	Front End Engineering Design
AUTHORISED REPRESENTATIVE	IOCL's/ CONSULTANT's representative authorized to act for and on behalf of them.
VENDOR	Any third party supplying the equipment/materials for setting up the Plant
PROJECT	Indicates Standby SRU and Additional tanks Project, Paradip Refinery
UNIT	Indicates any particular portion of the project to be built which can be Process related or Utilities/Offsites related
SRU	Sulphur Recovery Unit
PMI	Positive Material Identification
XRF	X-Ray Fluorescence
OES	Optical Emission Spectroscopy

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Alloy Material	Any metal (including filler metals for welding alloy materials) retaining alloying elements such as chromium, nickel, or molybdenum, that are intentionally added to enhance mechanical or physical properties and/or corrosion resistance. Does not include high-strength low-alloy (micro alloyed) steels and impact-tested carbon steels
Pressure-retaining Components	Components acting as pressure envelope or boundary; breach of this envelope or boundary would lead to loss of containment and discharge of process fluids. Examples include, but not limited to, product forms used for the fabrication of pressure piping and equipment such as shells, heads, tube sheets, nozzles, tubes, flange bolting, gaskets, forgings, flanges, individual pipe lengths and fittings (tees, elbows, reducers, special pipe components), valve bodies and bonnets, pressure-retaining welds, weld overlays/cladding, expansion joints and bellows.
Non-pressure Components	Items that are not part of the pressure-retaining envelope, and, therefore, do not affect the pressure retaining capacity of pressured components
Representative Sampling	PMI testing of a sample, which consists of one or more pieces (components), selected at random from an inspection lot, which will be examined to determine acceptability of the inspection lot
Material Specification	ASME Sec II A, B and C, or relevant ASTM, any other material specifications, as per contract
Equipment Manufacturer	The Company responsible for the plant or shop manufacturing of pressure equipment that is within the scope of this standard.
Fabricator	The company, organization, or agency responsible for the shop or field fabrication or assembly of piping and pressured equipment within the scope of this standard.

3 SCOPE

- a. This specification specifies the basic requirements for conducting the Positive Material Identification (PMI) tests on ferrous and non-ferrous metal alloy materials and welds in the vendor shop.
- b. This specification is intended to ensure nominal composition of the alloy components and associated welds, have been correctly supplied and installed as specified in Drawing/ Documents.

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- c. The test methods outlined in this specification are intended to identify alloy materials and are not intended to establish the exact conformance of a material to a particular alloy specification.
- d. PMI shall not be considered as a substitute for required material test reports, and material test reports shall not be considered as acceptable PMI.
- e. This Specification covers the extent of parts to be checked, sampling requirements, approved testing methods, acceptance/rejection criteria and marking requirements of PMI.
- f. This Specification is applicable to all the alloy material specifications except where alloying elements are added as trace for enhancing the strength of micro alloyed steel.
- g. The elements of the basic alloy materials to be verified shall be in accordance with the below Table.

TABLE

Basic alloy	Elements to be verified
Carbon-Molybdenum, Manganese-Molybdenum and Chromium-Molybdenum Steels, Chromium-Molybdenum Vanadium Steel	Chromium, Molybdenum and Vanadium
Copper - based alloys	Copper, Zinc and other elements specified in applicable material specifications.
Regular Carbon grade stainless steels	Chromium, Nickel and Molybdenum
Stabilized Stainless steels	Chromium, Nickel, Molybdenum, Titanium and Niobium
Nickel based alloys	Nickel, Iron, Copper, Chromium and Molybdenum
Nickel Steels	Nickel



4. CONFLICTS, DEVIATIONS AND CLARIFICATIONS

Any conflicts, Deviations between this standard and other applicable engineering specifications shall be dealt with the following orders of precedence.

- Licenser's Specification
- Particular technical specification issued for the specific material/item
- This Specification
- International standards and codes

5. APPLICABLE CODES AND STANDARDS



ASME II Part A	Ferrous Material Specifications
ASME II Part B	Non-Ferrous Material Specification

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ASME II Part C	Specification for welding rods, Electrodes and Filler metals
ASME IX	Welding and Brazing Qualifications
ASME B31.3	Process Piping
ASME B31.1	Power Piping
API RP 578	Material Verification Program for New and Existing Alloy Piping System
ASTM A751	Standard Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products
ASTM E353	Standard Test Methods for Chemical Analysis of Stainless, Heat-Resisting, and other Similar Chromium-Nickel-Iron Alloys
ASTM E354	Standard Test Methods for Chemical Analysis of High-Temperature, Electrical, Magnetic, and Other Similar Iron, Nickel, and Cobalt Alloys

6. ALLOY VERIFICATION- GENERAL REQUIREMENTS

- a. The fabricator or supplier shall certify that all PMI has been performed at the point in time that will ensure the correct material has been used.
- b. Vendor or appointed PMI agency shall ensure that all involved parties fully understand the PMI requirements. That includes the verification method to be used, the period during fabrication when verification will be conducted, and the method of marking verified material.
- c. The PMI personnel and procedures shall be subject to review by CONTRACTOR as follows:
 - The fabricator or supplier or any third-party agency shall submit the alloy verification procedures to CONTRACTOR for review, including complete descriptions of the methods and equipment to be used and personnel qualification procedures.
 - CONTRACTOR shall review the procedure and qualifications and witness sample alloy verification tests to the extent necessary to confirm that the procedures, equipment and personnel can provide consistent and accurate results.
 - CONTRACTOR shall check procedures to ensure that positively identified materials are traceable to the purchase order and / or any required material documentation or mill test reports.
 - CONTRACTOR shall have the right to witness the performance of any PMI test.
 - If the performance of any verification activity is unacceptable to CONTRACTOR, or if any material has been incorrectly identified, all further tests shall be subject to approval by CONTRACTOR until the problem is corrected.

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- Shop-fabricated equipment & all shop fabricated spools requiring PMI shall have the verification testing done in the vendor's shop.
- Where items are rejected after analysis, all remaining pieces of the item from the same supplier shall be sampled and analyzed as described in Section 10.

7. VERIFICATION METHODS

- The instruments or methods used for the examination shall be suitable for identifying the material by quantitative measurement of the major alloying elements required in the applicable material specification or welding procedure specification, provide recordable results.
- The preferred method is X-ray Emission Fluorescence (XRF) analysis or Optical Emission Spectrograph (OES) analysis by a calibrated portable instrument. Selection of equipment to be used for PMI should consider material type, thickness, hardness requirements and surface finishes.
- Any burn caused by OES shall be removed by Buffing/Grinding, ensuring that the minimum thickness requirement of the component is not compromised
- The material manufacturer, supplier or fabricator performing the verification shall submit a dedicated procedure for PMI to CONTRACTOR/CONSULTANT's approval
- If there is any discrepancy in the PMI results using portable instrument as specified in paragraph 7 b, a chemical analysis as outlined in ASTM A751, ASTM E353 and ASTM E354, may be used to establish conformance to the original material specification
- Reference Block with chemical analysis certificate shall be used for In - situ calibration before proceeding with the actual job.
- The surface to be analyzed shall be clean bare metal, free of grease or oil, free from dust with a surface finish as specified by the instrument manufacturer.
- The PMI shall be done at three stages- During raw material receipt, during in process stage and during final inspection
- Additional PMI testing methods as listed in API RP 578 will be considered for use only upon request and approval.

8. OPERATOR QUALIFICATION

- The person performing the PMI Test shall be qualified, experienced and competent to operate the equipment, conduct the test, store and retrieve the data as appropriate. Operator must possess a documented Training record for verification.
- Must have the necessary interpretation skills essential for the operation of the portable equipment.



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- c. The PMI Instrument shall have been serviced within 6 months' period of use to verify the suitability of Batteries, sources etc. Records of such service shall be available for review. The accuracy of the non-destructive testing equipment shall be verified immediately before use and re-verified during use as recommended by the testing equipment manufacturer. Calibration shall be to a standard of the alloy being tested. The alloy standard shall be traceable to a reference standard as described in ASTM A751.
- d. Reference Block with full traceability with chemical analysis certificate shall be used.
- e. PMI shall be performed on the surface that will be in contact with the process fluid. The only exception shall be where small-bore components or piping assembly closure weld prevent access to the internal surface

9. EXTENT OF VERIFICATION

9.1 FOR PRESSURE CONTAINING EQUIPMENT, PACKAGES ETC.

- a. PMI Testing shall be performed at the point of use and typically at the supplier's shop during fabrication or immediately prior to fabrication/assembly.
- b. PMI of weld material shall be performed in the same manner as for the adjacent base metal. Weld overlay and Clad restoration welds also shall be PMI verified as appropriately.
- c. Alloy pressure retaining components in critical service shall undergo 100% PMI. The requirement of PMI shall be in accordance with this specification and will be indicated in Material requisition attached to Purchase order.
- d. PMI shall be performed 100% for RTJ Gaskets (RTJ Gaskets shall only be inspected by using X ray fluorescence instruments), and for Fasteners it shall be 10% Random.
- e. One uncoated electrode/alloy welding filler wire shall undergo PMI from each heat. The remainder of the lot from that heat shall be identified with the tested sample and proper records maintained.
- f. Double side welded joints in Alloy steel material, shall be PMI tested on both inside and outside of the welds wherever accessible. (i.e.) weld capping layer inside and outside. Minimum one spot per 100 feet for horizontal and vertical welds should be considered
- g. PMI of heat exchanger tubes shall be done 100% by the supplier and 10% at the fabrication shop. Care shall be taken not to damage the tubes by arc strike.
- h. In addition to PMI verification of heater tubes, shop and field welds on alloy heater tubes require 100% PMI verification.
- i. All alloy components direct contact with service fluid & Internals shall require random PMI of 10% of the sample population on a heat/lot basis.

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9.2 BULK MATERIALS

PMI examination of bulk piping components shall be on a heat/lot basis by the manufacturer or Vendor as indicated below.

Bulk piping components consist of pipe, fittings and flanges procured directly from Manufacturers.

- If the heat/lot consists of five (5) items or less, PMI shall be performed on all items.
- If the heat/lot consists of 5 - 200 items, perform random PMI on five (5) items or 5% of the total, whichever is greater.
- If the heat/lot consists of more than 200 items, perform random PMI on 10 items or 3% or the total, whichever is greater.
- Where there is reason to suspect problems, longitudinally welded alloy pipe and fittings should receive 100% PMI testing verification of the base metal and weld metal.

100% PMI verification is required for pressure-containing components procured from bulk item Stockists.

9.3 FASTENERS & GASKETS

- All alloy stud bolts and nuts require random PMI of b. 5% of each lot unless otherwise specified.
- Gaskets – only for RTJ Gaskets, 100% PMI shall be performed.

9.4 OTHERS

Valves – All types for Piping and Instrumentation – Pressure retaining & contact with service fluid- external components shall be 100% performed.

Pumps, Compressors, Turbines etc.– Pressure retaining external components shall be 100% performed.

Inline Instruments, Components (orifice plate etc.) – Pressure retaining & contact with service fluid -external components shall be 100% performed.



Tanks - – Pressure retaining/Holding components -Bottom Plate, Shell Plate, Roof and Nozzles shall be 100% performed.

9.5 EXCEPTIONS

Non-pressure retaining Components

Components made from Carbon Steel or Cast iron and filler metals, other than wet sour service, potential for catastrophic failure, other related provisions in the Project QA Plan.

Rotating Equipment internals, associated seal, lube oil, cooling water systems etc.

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Valve internals, all instrumentation provided with Isolation valve etc.

Gaskets other than Ring type metallic gaskets (RTJ)

PMI for the following piping materials may be exempted:

- Steam / air / drain traps
- Metallic flexible hoses
- Hose couplings



For instrument bulk materials like instrument tubing's, fittings etc., PMI is not required. This includes instrument tubing, fittings mounted inside skid assembled packages.

10. ACCEPTANCE CRITERIA

- For acceptance, it must be demonstrated that materials contain the amount of alloying elements shown in the material specification. Alloys shall be acceptable if the alloying elements are each within 10% specified range of values.
- Deposited weld metal or undiluted weld metal deposits shall be within a tolerance of 12.5% of the ranges allowed by ASME Section II C for each element.
- Acceptance criteria for dissimilar metal alloy welds shall be such that the weld meets the chemical composition requirements. The effects of dilution during deposition should be considered for deposited (diluted) weld metal.

11. REJECTION CRITERIA



- If the PMI testing results fall outside the acceptable range using a method described in Section 7, the Equipment Manufacturer or the Fabricator, as applicable, has the option to conduct a more accurate analysis at his own expense to determine the component acceptance such as obtaining a chemical analysis performed by an independent testing laboratory using the 'referee, method referenced by the material specification. If no referee method is referenced, an appropriate method of chemical analysis as per Clause 7.e shall be used. Results of this analysis shall govern.
- If any material component or weld is found to be unacceptable, all other represented materials, components, or welds shall be considered suspect. The supplier has the option of the following:
 - Scrapping all those represented materials and components and replacing with new components or filler metals (as applicable)
 - Performing 100% examination of the remainder of the represented materials, components, or welds and replacing each item that fails the positive material identification check.

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- c. When one lot of components or filler metal is found to contain unacceptable items, then the next two lot of components from the same supplier shall be examined 100%. If both lots are acceptable, or when two successive lots are acceptable, the sampling percentage described in Section 9 may be resumed.
- d. The supplier shall be responsible for segregating rejected items and assuring that they are properly identified to prevent their un-authorized re-use or removal.

12. MARKINGS

- a. Materials, items and welds that are found to be unacceptable during verification testing shall be marked immediately with a circled RED cross (X) for identification purposes with water soluble material that contain no substances that harmfully affect the metal at ambient and elevated temperature.
- b. All verified materials with an acceptable analysis shall be marked with the letters "PMI OK" using a certified low stress stamp, except that the components and welds in the completed equipment at vendor's shop such as vessel, heat exchanger etc., need not be marked provided that each positively identified materials and welds can be traceable to PMI records prepared by vendor in accordance with paragraph 13
- c. When any heat treatment or pre-heat is performed after PMI, the identification marking must be recognizable after such heat application. When a material is cut after PMI has been performed, the markings shall be transferred onto the unmarked piece/s.
- d. Items sampled by lot or which cannot be marked individually shall be tagged with the identification information placed on tags. For items sampled by lot, tags may be affixed to their containers.
- e. Markings shall be placed as follows:
 1. Plates — Adjacent to heat numbers.
 2. Pipes — Two marks, 180 degrees apart, 75mm from each end of each length of pipe on the outer surface.
 3. Forgings and Fittings — Adjacent to the Vendor's markings.
 4. Valve — Adjacent to the Vendor's marking on bodies and other pressure parts.
 5. Casting — Adjacent to the Vendor's marking and heat numbers.
 6. Studs and Bolts — On the end.
 7. Nuts — On one flat.
 8. Weld — Adjacent to welder's mark on the weld
- f. Unacceptable components and welds shall be identified and quarantined immediately

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13. RECORDS OF VERIFICATION TESTING

- a. A report should be made to identify each component that has been PMI verified and the results of the testing. Test results should include measured percentage of alloying element, accepted, rejected, rejected but accepted based on independent chemical analysis, and so on.
- b. The report shall identify each component to an individual shop-fabricated equipment item, assembly, line number etc. Each equipment manufacturer shall develop the detailed recording / reporting procedure to CONTRACTOR.
- c. The equipment manufacturer shall prepare a detailed PMI map of the pressures equipment being fabricated
- d. Reference to the PMI test procedure(s) used, Date of testing, Test instrument identification number or serial number where appropriate, Name of each person and company performing the tests, Basis and action for resolving and documenting PMI test non-conformances including those that have been left in service shall be recorded.
- e. A PMI report must include the following data
 - Supplier's, or nominated sub-supplier's, name
 - PMI sub-contractor's name and address, if applicable
 - Purchase Order No. and Contract No.
 - Equipment Item No.
 - Location and date of PMI examination
 - Description of method/ instrument used
 - Instrument no. and date of last service
 - Results of PMI examination
 - Type of alloy examined per item
 - Conclusion

**COMMON PROJECT MASTER SUPPLIER LIST
(CPMSL)-IOCL-2020**

DOC. NO. : RHQ-IOCL-CPMSL-2020

SECTION - A MECHANICAL EQUIPMENTS

SECTION - B BULK PIPING ITEMS

SECTION - C Electrical

SECTION - D Instrumentation




Refineries Division

INDIAN OIL CORPORATION LIMITED

16	01-01-2022	Common Projects Master Supplier List			
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14	01-11-2021	Common Projects Master Supplier List			
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3	01-12-2020	Common Projects Master Supplier List			
2	31-10-2020	Common Projects Master Supplier List			
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REV	DATE	DESCRIPTION	SPJM (DK)	DGM/GM (PJ)	CGM (PJ-Engg.)
			PREP. BY	REVIEWED BY	APPROVED BY

**INDIAN OIL CORPORATION LIMITED
REFINERY HEADQUARTERS**

 IndianOil		
EQUIPMENTS AND BULK PIPING ITEMS	Doc. No.:	RHR-IOCL-MSL-2020
DOCUMENT TITLE :- COMMON PROJECT MASTER SUPPLIER LIST (CPMSL)-IOCL-2020	Rev:	16
INDIAN OIL CORPORATION LIMITED (IOCL) -REFINERIES DIVISION	Date:	01-Jan-22
GENERAL NOTES		
<p>A PURPOSE : The Common Projects Master Supplier List (CPMSL) is a list of Vendors appropriately sub-categorized by commodity for the supply of goods and services. The document has primarily been issued to govern purchase of Project Materials for Projects executed from RHQ, DELHI.</p> <p>B EPCM / PMC shall ensure/review the followings prior to floating the tender enquiry :-</p> <p>A) Vendors should not be under IOCL holiday list and IOCL Watchlist</p> <p>B) Vendors should not be under NCLT (National Company Law Tribunal) or insolvency as published by IBBI.</p> <p>C) Statutory / Government Policy directives, etc shall be followed.</p> <p>D) Addition/Deletion of Vendors w.r.t workload, financial capability, manufacturing range, credentiala, Stability, etc.</p> <p>E) Licensor's Recommendations.</p> <p>C It is understood that, should the name of vendors be changed due to change in their Company or Corporate shareholding, IOCL will accept such Vendors under its new name with prior approval.</p> <p>D The approved vendors list for fabricated equipment (Vessels, Columns, Heat Exchangers, Ejectors etc.) is for fabrication alone. Where mechanical design of the equipment is included in Vendor 's scope, EPCM/PMC shall either be responsible for approval / review of Mechanical design calculations as per codes / specifications specified elsewhere in the Bid / Contract document of purchase order.</p> <p>E If EPCM/PMC becomes aware of any serious issues of VENDOR's / SUPPLIER's performance or financial status or any such issues of the approved MSL, it shall be intimated to IOCL with proper back-up/justification for IOCL consideration and updation in the MSL</p> <p>F Domestic manufacturer Iron & steel policy 2019 prohibits foreign sourcing of Items with HSN Codes covered under Annexure-A of the Policy</p> <p>G As per Government notification dated 15.06.2020, No global tender will be invited for procurement of Items and Services with estimated value upto Rs 200 Cr. PMC/EPCM shall provide the list of items wherein global tendering cannot be avoided along with full justifications while finalisation of MSL or during the procurement stage so that prior approval can be taken by IOCL in advance.</p> <p>H MSL shall include sub-ordered Major items / components also of the Main Item. PMC/EPCM shall define the major items/components in their tender and including the supplier's of the same in the tender from the IOCL MSL</p> <p>I EPCM/PMC may request additions to the approved MSL. In such cases, it is EPCM/PMC responsibility to ensure any VENDOR proposed for addition to the list is technically qualified to carry out the required work, operates a quality system in accordance with latest ISO norms or equivalent, is financially stable, can demonstrate past satisfactory experience of similar work, has the availability of technical support and resources, satisfactory after sales and complies with necessary Secrecy Declarations, and shop loading/Capacity to complete the required scope of work. Further, EPCM / PMC shall submit the credentials of the proposed vendors. Consideration/approval of proposed alternate vendors is at the sole discretion of the IOCL.</p> <p>J ABBREVIATIONS</p> <p>OWNER : Indian Oil Corporation Limited (IOCL)</p> <p>MSL : Master Supplier List</p> <p>ECPM/PMC : Consultant for the Project</p>		



<div><div>IndianOil</div></div>		
INDEX SHEET : EQUIPMENTS AND BULK PIPING ITEMS		Doc. No. RHQ-IOCL-CPMSL-2020
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INDIAN OIL CORPORATION LIMITED (IOCL) / REFINERIES DIVISION		01 January 2022
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1.19	COLUMN/TOWER - LTCS	17
1.20	COLUMN/TOWER-CS/LAS+SS CLADDED	19
1.21	COLUMN - MONEL CLAD	12
1.22	CCR PLATFORMING REACTOR	3
1.23	REACTOR/SEPARATOR-SS CLAD 1.25 Cr 0.5 Mo	6
1.24	REACTOR/SEPARATOR-SS CLAD-2.25 Cr-1 Mo	4
1.25	REACTOR/SEPARATOR- CLAD 2.25Cr 1Mo 0.25V	2
1.26	COLUMN/TOWER-CS (51-100MM THK)	12
1.27	HEAT EXCHANGER CARBON STEEL	41
1.28	HEAT EXCHANGER-ROD AND PLATE TYPE BAFFLE	0
1.29	HEAT EXCHANGER STAINLESS STEEL.	37
1.30	HEAT EXCHANGER LOW ALLOY STEEL.	21
1.31	HEAT EXCHANGER LTCS.	22
1.32	HEAT EXCHANGER 3.5 % NI STEEL	7
1.33	HEAT EXCHANGER-CS/LAS+SS CLAD	21
1.34	HEAT EXCHANGER(PLATES-WELDED)	9
1.35	HEAT EXCHANGERS (PLATE -GASKETTED)	8
1.36	HEAT EXCHANGER NF- (BRASS, CU-Ni)	19
1.37	AIR FIN COOLER (CS & SS)	9
1.38	AIR FIN COOLERS (DUPLEX SS)	4
1.39	SAMPLE COOLER	11
1.40	CRYOGENIC VAPORIZER-DIRECT STEAM HEATED	0
1.41	HEAT EXCHANGER (AL. BRAZED FIN TYPE)	1
1.42	HEAT EXCH. MONEL / MONEL CLAD	7



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1.43	HEAT EXCH. NICKEL / NICKEL CLAD	3	
1.44	HEAT EXCH. HASTALLOY / HASTALLOY CLAD	4	
1.45	ELECTRIC HEATER	3	
1.46	HEAT EXCHANGER SS-DUPLEX	15	
1.47	HEAT EXCHNAGER - ALLOY 625	7	
1.48	LOUVERS FOR AIR FIN COOLERS	1	
1.49	EJECTOR (ENGINEERED)	7	
1.50	EJECTOR (UNENGINEERED)	3	
1.51	SILENCER	8	
1.52	VACUUM EJECTOR CONDENSER SYS(ENGINEERED)	2	
1.53	VACUUM EJECTOR CONDSR SYS (UNENGINEERED)	3	
1.54	DEMISTER-VANE TYPE	5	
1.55	EXPANSION JOINT-METALLIC	6	
1.56	AIR PRE-HEATER (CAST)	1	
1.57	AIR PRE-HEATER (GLASS TUBE)	1	
1.58	BURNER-CONVENTIONAL	9	
1.59	BURNER-LOW NOx (PROCESS FIRED HEATER)	1	
1.60	BURNER-SRU	0	
1.61	AIR HEATER (DIRECT FIRED)	0	
1.62	LNG VAPORIZER	0	
1.63	TOWER PACKING: METALLIC (NON-PROPRIETARY)	5	
1.64	TOWER PCKG & ASSTD INTL: METALLIC (PROPRTRY)	3	
1.65	TOWER PKG:NON METALLIC(PROPRIETARY)	4	
1.66	TOWER PACKING: CERAMIC	8	
1.67	COLUMN TRAYS-HIGH CAPACITY	4	
1.68	NON-PROP. PACKGS WITH CONVENL INTERNALS	6	
1.69	NON-PROP PKG,HIGH QUAL DISR& INL-UN ENGIN	5	
1.70	INLET FEED DEVICE (VANE TYPE)	3	
1.71	SEPARATOR INTERNALS	5	
1.72	REACTOR INTERNAL	11	
1.73	SPRAY NOZZLE-PROCESS	9	
1.74	SPRAY NOZZLE-TORCH OIL	1	
1.75	TOWER PACKING:CARBON	3	
1.76	TOWER PACKINGS:PVC & PP(NON-PROPRIETARY)	3	
1.77	WASTE HEAT BOILERS	9	
1.78	REFRACTORY FIRE BRICKS	23	
1.79	INSULATING REFRACTORY CASTABLE	15	
1.80	SULPHUR TRAPS	0	
1.81	STORAGE TANKS, BULLETS & MOUNDED BULLETS	0	
1.82	DEAERATOR	6	
1.83	FILTER - BASKET	21	
1.84	FILTER - CARTRIDGE/CANDLE	22	
1.85	FILTER - PRESSURE	0	
1.86	FURNACE	0	



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1.87	FLARE STACK COMPONENTS	4
1.88	MAIN COMBUSTN. CHAMBR PKG(SRU)-ENGINEERED	6
1.89	INCINERATOR PACKAGE FOR SRU	3
1.90	FIRED HEATERS	11
1.91	COLUMN / DRUM (SITE FABRICATED)	2
1.92	HAIRPIN EXCHANGER	6
1.93	SILOS	0
1.94	LOW FIN HEAT EXCHANGER	5
1.95	SOOT BLOWER	2
1.96	CASTINGS TUBE SHEET/TUBE SUPPORT	4
1.97	DAMPERS & ISOLATORS	3
2	ROTARY EQUIPMENT	
2.1	PUMP-CENT.HOR(GPP)	16
2.2	PUMP-CENT.HOR(SPP)	9
2.3	PUMP-CENT.HOR(GWS)	14
2.4	PUMP-CENT.HOR(LCWS)	16
2.5	PUMP-CENT.HOR.(MOLTEN SULPHUR)	2
2.6	PUMP-CENT.VERT(GPP)	15
2.7	PUMP-CENT.VERT. BARREL TYPE(SPP)	11
2.8	PUMP-CENT.VERT.(GWS)	16
2.9	PUMP-CENT.VERT(LCWS)	15
2.10	PUMP-CENT.VERT.(MOLTEN SULPHUR)	2
2.11	PUMP-CENT. (BFW)	10
2.12	PUMP-CENT.SU.M(CRYO)	0
2.13	PUMP-CENT.H/V(FW)	7
2.14	PUMP-CENT.HOR.MULTI STAGE(SPP)	7
2.15	PUMP-CENT. (LOW CAPACITY HIGH HEAD)	1
2.16	PUMP-ROTARY.SCREW	12
2.17	PUMP-ROTARY.GEAR	9
2.18	PUMP-ROTARY.SL.VANE	3
2.19	PUMP-ROT.SCR.ARC(ES)	3
2.20	PUMP-ROTARY(LOBE)	4
2.21	PUMP-SLURRY.RECIPRO	0
2.22	PUMP-SLURRY.CENT.H/V	8
2.23	PUMP-RECIPRO (API 674)	10
2.24	PUMP-A.F.PROPELLER	4
2.25	PUMP - AIR OPERATED DIAPHRAGM	5
2.26	EDUCTOR	3
2.27	COMP-RECIPRO(SPP)	9
2.28	COMP-RECIPRO(PIANS)	10
2.29	COMP-RECIPRO(DIAPHRAGM)	2
2.30	COMP-RECIPRO(LABYRINTH)	1
2.31	COMP. HIGH PRESSURE(PIANS)	1
2.32	COMP-CENT.(SPP)	6



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2.33	COMP-ROT.LIQUID RING/VP(PS)	10
2.34	COMP-ROT.LIQUID RING / VP(AS)	9
2.35	MECH.SEAL FOR PUMPS/AGITATORS	6
2.36	MECHANICAL SEALS (API 682 TYPE & DRY GAS SEAL)	6
2.37	COMP-ROT.SCREW(PS)	7
2.38	COMP-ROT.SCREW(PIAS)	6
2.39	COMP-EXPANDER(PRO)	1
2.40	COMP-EXPANDER(AIR)	1
2.41	TURBINE-STEAM(GP)	8
2.42	TURBINE-STEAM(SP)	10
2.43	TURBINE-GAS	5
2.44	FAN-ID/FD	16
2.45	FAN-AXIAL FLOW	2
2.46	BLOWER-TURBO CENTRIFUGAL	15
2.47	POSITIVE DISPLACEMENT PUMPS RECIPROCATING - (CONTROLLED VOLUME)	10
2.48	AGITATOR	13
2.49	Centrifugal Pumps - Sealless General Service	2
2.50	Special Purpose Gear Unit	1
2.51	ONE WAY CLUTCH	0
2.52	FLEXIBLE METALLIC COUPLING	4
2.53	Centrifugal Pumps - Non Metallic / Lined	6
2.54	VACUUM PUMPS	5
2.55	PUMP-CRITICAL TEMPERATURE COLD SERVICE	0
3	FIRE FIGHTING EQUIPMENT	
3.1	FIRE EXTINGUISHERS (PORTABLE)	17
3.2	SAFETY SHOWER & EYE WASHER	6
3.3	CLEAN AGENT SYSTEM	12
3.4	DELUGE VALVE AND HEAT DETECTORS	7
3.5	HOSE DELIVERY	9
3.6	FIRE HOSE ACCESSORIES	11
3.7	FOAM MAKER	4
3.8	VAPOUR SEAL CHAMBER	3
3.9	BRANCH PIPES	11
3.10	INLINE INDUCTORS	4
3.11	WATER SPRINKLER	5
3.12	FIXED FOAM SYSTEM (FOAM PACKAGE)	3
3.13	HYDRANT/LANDING VALVE	12
3.14	SPRAY NOZZLE- FIRE FIGHTING	4
3.15	AUTO DCP EXTINGUISHING SYSTEM	2
3.16	HV/MV SPRAY SYSTEMS	12
3.17	RIM SEAL FIRE PROTECTION SYSTEM	3
3.18	WATER MONITOR	14
3.19	WATER CUM FOAM MONITOR	9
3.20	LONG RANGE MONITOR	6



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3.21	REMOTE CONTROLLED MONITORS	6
4	HVAC & MISCELLANEOUS	
4.1	DESALTER PACKAGE (COALESCER - ELECTROSTATIC)	0
4.2	VACUUM EJECTOR CONDENSER SYS(ENGINEERED)	2
4.3	VACUUM EJECTOR CONDSR SYS(UNENGINEERED)	1
4.4	DOSING PACKAGE(SKID MOUNTED)	11
4.5	PRU (Propylene Recovery Unit) DRYER	0
4.6	PNEUMATIC CONVEYING PACKAGE	1
4.7	EXTRUDER / PELLETIZER PACKAGE	0
4.8	CATALYST, ADDITIVES UNLOADING PACKAGE	0
4.9	LOSS-IN WEIGHT FEEDER PACKAGE / SCREW CONVEYOR	0
4.10	ROTARY FEEDER	0
4.11	BAGGING PLANT	0
4.12	VACUUM CLEANING SYSTEMS	0
4.13	DRIER-AIR/G	16
4.14	FILTER BAG TYPE	5
4.15	PLANT & INSTRUMENT AIR COMPRESSOR PACKAGE	2
4.16	COOLING TOWER	0
4.17	NITROGEN PLANT (CRYOGENIC)	9
4.18	DM WATER & CONDENSATE POLISHING UNIT	4
4.19	EFFLUENT TREATMENT PACKAGE	11
4.20	EMERGENCY DIESEL GENERATOR	6
4.21	CRANE-H.O.T / E.O.T / ELECTRIC HOISTS	30
4.22	REFRIGERATION SYSTEM- VAPOUR ABSORPTION	5
4.23	VENTILATION & PRESSURISATION SYSTEM	12
4.24	AIR CONDITIONING SYSTEM - PACKAGE UNIT	7
4.25	AIR CONDITIONING SYSTEM - CENTRAL	8
4.26	CHILLER PACKAGE /CONDENSING UNIT	9
4.27	AIR HANDLING UNIT	11
4.28	CHEMICAL FILTER (HVAC)	4
4.29	CENTRIFUGAL FAN (HVAC)	7
4.30	EXHAUST AXIAL FAN (HVAC)	3
4.31	SPLIT / WINDOW AC	11
4.32	AIR FILTERS (HVAC)	5
4.33	3 WAY MODULATING VALVE FOR HVAC APPLICATION	5
4.34	FIRE DAMPER	6
4.35	VOLUME CONTROL DAMPERS / LOUVERS	6
4.36	GRILL / DIFFUSER FOR AIR CONDITIONING SYSTEM	8
4.37	DAMPER ACTUATOR	4
4.38	MODULATING DAMPER ACTUATOR	5
4.39	G.I. SHEETS (HVAC DUCTING)	3
4.40	REFRIGERATION SYSTEM - PROCESS	6
4.41	ELECTRONIC WEIGH SCALE	9



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4.42	PSA HYDROGEN PLANT	2
4.43	STATIC MIXER	5
4.44	COALESCER	6
4.45	FEED FLTR AUTO BACK WASH HYD.CRAKR DHDT	2
4.46	FILTER- ROTARY	1
4.47	FILTER-VACUUM	0
4.48	QUICK OPENING CLOSURE(FILTER/SEPARATOR)	3
4.49	LIFTS (PASSENGER & GOODS)	5
4.50	LOADING/UNLOADING ARM	5
4.51	TOWER PACKING CARBON	3
4.52	TOWER PACKINGS;PVC&PP(NON-PROPRIETRY)	3
4.53	SPIRAL HEAT EXCHNAGER	2
4.54	HASTOLLOY SOLID REACTORS	3
4.55	DUPLEX SOLID REACTORS	3

SECTION-B : BULK PIPING ITEMS

1	PIPING & FITTINGS	
1.1	NON STANDARD FORGINGS-CARBON STEEL	24
1.2	NON STANDARD FORGINGS-ALLOY STEEL	15
1.3	NON STANDARD FORGINGS- STAINLESS STEEL	18
1.4	LINING (RUBBER)	10
1.5	LINING-FRP(TANKS & VESSELS)	11
1.6	PVDF/FRP EQUIPMENTS	8
1.7	ROCK WOOL INSULATION PRODUCTS	14
1.8	GLASS WOOL INSULATION PRODUCTS	1
1.9	CALCIUM SILICATE PRODUCTS	2
1.10	PU FOAM & POLYISOCYANURATE FOAM	3
1.11	LINE PIPES (HELICAL SAW)	6
1.12	LINE PIPES ERW	11



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Sr.No	ITEM	Indian Vendors
1.13	LINE PIPES SEAMLESS	4
1.14	LONG RADIUS BENDS	2
1.15	FLANGE- CARBON STEEL	32
1.16	FLANGE-ALLOY STEEL	20
1.17	FLANGE-STAINLESS STEEL	26
1.18	FLANGES-EXOTIC	1
1.19	COMPACT FLANGE	0
1.20	CLAMP CONNECTOR	0
1.21	SIGHT FLOW INDICATORS (SIGHT GLASSES)	8
1.22	PIPE-CARBON STEEL TO INDIAN STANDARDS	35
1.23	PIPES & TUBULARS TO A.P.I.STANDARDS	15
1.24	PIPE/TUBE-C S (SEAMLESS)TO ASTM STDS	14
1.25	PIPE-CARBON STEEL(WELDED)TO ASTM STDS	6
1.26	PIPE/TUBE- A S (SEAMLESS)TO ASTM STDS	12
1.27	PIPE/TUBE-SS(S.LESS & WELDED)TO ASTM STD	26
1.28	PIPE/TUBE-S.LESS(DUPLEX/SUPER DUPLEX SS)	3
1.29	PIPE / FITTINGS -PTFE LINED	6
1.30	PIPES -SS WELDED TO A 358	5
1.31	DUPLEX/SUPER DUPLEX SS WELDED PIPES	0
1.32	PIPES- INDIAN STOCKIST	22
1.33	PIPE-CLADDED	0
1.34	PIPE-WELDED ALLOY STEEL	2
1.35	PIPE-PVDF/FRP	3
1.36	PIPE-FRP	12
1.37	PIPE-GRE	0
1.38	PIPE-TITANIUM	0
1.39	PIPING SYSTEM-CLAD(SHOP FABRICATED)	7
1.40	PRE-FABRICATED PIPING SPOOL	5
1.41	PIPING SYSTEM-GRE/GRP	1
1.42	TUBE-WELDED CARBON STEEL	0
1.43	TUBE-WELDED ALLOY STEEL	0
1.44	TUBE-TITANIUM	0
1.45	TUBE COPPER AND ALLOYS	6
1.46	FITTINGS-FOREIGN AGENTS/STOCKIST/TRADERS	1
1.47	FITTING BLOCK FORGED-CARBON STEEL	16
1.48	FITTING BLOCK FORGED-ALLOY STEEL	11
1.49	FITTING BLOCK FORGED-STAINLESS STEEL	13
1.50	WELDOLETS/SOCKOLETS/ELBOWLET	11
1.51	FITTINGS BLOCK FORGED-EXOTIC MATLS.	1
1.52	FITTINGS FROM SEAMLESS PIPE-CARBON STEEL	23
1.53	FITTINGS FROM SEAMLESS PIPE- ALLOY STEEL	17
1.54	FITTINGS FROM SEAMLESS PIPE- S.S.	20
1.55	FITTINGS FROM S/LESS PIPES-EXOTIC MATLS	3
1.56	FIITINGS CROSS-FROM SEAMLESS PIPES	2



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1.57	FITTING-GRE	0	
1.58	FITTINGS TO IS-1239	8	
1.59	FITTINGS FABRICATED FROM PLATE - C.S.	15	
1.60	FITTINGS FABRICATED FROM PLATE - A.S.	12	
1.61	FITTINGS FABRICATED FROM PLATE - S.S.	12	
1.62	FITTINGS FAB. FROM PLATES-EXOTIC MATLS.	1	
1.63	FITTINGS PIPE CAP (C S)	18	
1.64	FITTINGS PIPE CAP (A S)	13	
1.65	FITTINGS PIPE CAP (S S)	15	
1.66	FITTINGS PIPE CAP (EXOTIC)	0	
1.67	GASKET (IMPORTED)	0	
1.68	GASKET NON-ASBESTOS	10	
1.69	GASKET METALLIC & SOFT IRON	6	
1.70	GASKET METAL JACKETED	7	
1.71	GASKET SPIRAL WOUND	12	
1.72	HOSE- RUBBER (STEAM/GAS/AIR/WATER/CHEM.)	9	
1.73	HOSE METALLIC FLEXIBLE SS	10	
1.74	FASTENERS	23	



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Sr.No	ITEM	Indian Vendors	
1.75	FASTENERS: HIGH TEMPERATURE TO A 453	3	
1.76	EXPANSION JOINTS (RUBBER)	6	
1.77	SPRING SUPPORTS	10	
1.78	STRAINERS	0	
1.79	STRAINERS (FAB/CAST/FORGED)	9	
1.80	STEAM TRAPS-BUCKET/TH.DYN/TH.STAT/FLOAT	7	
1.81	COMPACT STEAM TRAPING ASSY+SS/CR MANFOLD	3	
1.82	STEAM TRAPS-	6	
1.83	STEAM SUPPLY / COND. RECOVERY MANIFOLD	3	
1.84	VALVE GATE (THRU CONDUIT) (AP16D)	1	
1.85	VALVE GATE- (FOREIGN SUPPLIERS)	2	
1.86	VALVE GATE CAST	36	
1.87	VALVE GATE CRYOGENIC CAST	9	
1.88	VALVE GATE FORGED	27	
1.89	VALVE GATE CRYOGENIC FORGED	9	
1.90	VALVE GATE GUNMETAL/BRASS/BRONZE	5	
1.91	VALVE GATE (MOTOR OPERATED)	16	
1.92	VALVE KNIFE GATE	5	
1.93	VALVE GLOBE- (FOREIGN SUPPLIERS)	2	
1.94	VALVE GLOBE CAST	30	
1.95	VALVE GLOBE CRYOGENIC CAST	9	
1.96	VALVE GLOBE FORGED	26	
1.97	VALVE GLOBE CRYOGENIC FORGED	7	
1.98	VALVE GLOBE GUNMETAL/BRASS/BRONZE	4	
1.99	Y TYPE GLOBE & STOP CHECK VALVES	7	
1.100	VALVE- BLOWDOWN (Straight/Angle Pattern)	7	
1.101	VALVE CHECK- (FOREIGN SUPPLIERS)	2	
1.102	VALVE CHECK CAST	33	
1.103	VALVE CHECK CRYOGENIC CAST	8	
1.104	VALVE CHECK FORGED	27	
1.105	VALVE CHECK CRYOGENIC FORGED	4	
1.106	VALVE CHECK GUNMETAL/BRASS/BRONZE	6	
1.107	VALVE CHECK (DUAL PLATE TYPE)	9	
1.108	VALVE CHECK EXCESS FLOW	1	
1.109	VALVE-NON SLAM CHECK (NOZZLE)	2	
1.110	VALVE BALL- (FOREIGN SUPPLIERS)	3	
1.111	VALVE BALL CRYOGENIC	3	
1.112	VALVE BALL NON FIRE SAFE-CAST CARBON STEEL	32	
1.113	VALVE BALL NON FIRE SAFE-CAST STAINLESS STEEL	26	
1.114	VALVE BALL FIRE SAFE-CCS	25	
1.115	VALVE BALL FIRE SAFE-CSS	19	
1.116	VALVE BALL - FIRE SAFE (FORGED)	10	
1.117	VALVE BALL NON FIRE SAFE-FORGED CARBON STEEL	13	
1.118	VALVE BALL NON FIRE SAFE-FORGED STAINLESS STEEL	13	



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1.119	VALVE BALL JACKETED - NON FIRE SAFE	2
1.120	VALVE BALL MULTIPOINT NON FIRE SAFE	2
1.121	VALVE BUTTERFLY- (FOREIGN SUPPLIERS)	1
1.122	VALVE BUTTERFLY – CAST CARBON STEEL	22
1.123	VALVE BUTTERFLY -CAST STAINLESS STEEL	17
1.124	VALVE BUTTERFLY -CAST ALLOY STEEL	5
1.125	VALVE BUTTERFLY (PTFE SEATED)	9
1.126	VALVE BELLOW SEALED	6
1.127	VALVE-BUTTERFLY (TRIPLE OFFSET)	8
1.128	VALVE DIAPHRAGM-(FOREIGN SUPPLIERS)	0
1.129	VALVE DIAPHRAGM CAST CARBON STEEL	3
1.130	VALVE DIAPHRAGM CAST STAINLESS STEEL	3
1.131	VALVE PLUG- (FOREIGN SUPPLIERS)	0
1.132	VALVE PLUG CONCENTRIC- CAST CARBON STEEL (F.S & N.F.S)	8
1.133	VALVE PLUG CONCENTRIC -CAST STAINLESS STEEL (F.S & N.F.S)	5
1.134	VALVE PLUG CONCENTRIC-CAST ALLOY STEEL (F.S. & N.F.S.)	1
1.135	VALVE PISTON (GLANDLESS)	3
1.136	VALVE PLUG DBB EXPANDING TYPE	1



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1.137	VALVE PLUG MULTIPOINT - NON FIRE SAFE	1
1.138	VALVE NEEDLE	7
1.139	VALVE DOUBLE DISC GATE	1
1.140	VALVE SLIDE	0
1.141	VALVE SHUT DOWN	2
1.142	VALVE CRYOGENIC SS /LTCS	1
1.143	VALVE SPECIAL CATEGORY	5
1.144	VALVE TANK BOTTOM/FLUSH BOTTOM	2
1.145	HASTELLOY PIPING COMPONENTS	11
1.146	TITANIUM PIPING COMPONENTS	11
1.147	LOW PRESSURE DROP BALL CHECK VALVE	0
1.148	EXPANSION JOINT (METAL)	4
1.149	EXPANSION JOINT (PRESSURE BALANCE)	1
1.150	BIRD SCREEN	3
1.151	EYE WASHER & SAFETY SHOWER	6
1.152	INSULATING GASKET	2
1.153	POST INDICATOR VALVES	3
1.154	COPPER TUBING	8
1.155	3-WAY VALVE	5
1.156	LTCS (LOW TEMPERATURE CARBAN STEEL) FLANGE	26
1.157	PRIMARY SUPPORT	11
1.158	SPECTACLE BLIND	9
1.159	SEAMLESS PIPES INTERNALLY EPOXY COATED AND EXTERNALLY 3 LPE COATED	14
1.160	WELDED PIPE INTERNALLY EPOXY COATED AND EXTERNALLY 3 LPE COATED	16

SECTION-C : ELECTRICAL

5	STATIC EQUIPMENT	
5.1	SWITCHBOARD-HV (Indoor) WITH VCB BREAKER (complete)	8
5.2	SWITCHBOARD-MV: MCC/ASB/LDB-FIXED TYP	7
5.3	SWITCHBOARD-M.V. : MCC/PCC/PMCC-DRAWOUT	6
5.4	SWITCHBOARD FIXED TYPE FOR PACKAGE EQUIPTS	12
5.5	OUTDOOR SWITCHYARD PACKAGE	11
5.6	GIS upto 245kV (Indoor)	6
5.7	RELAY & CONTROL PANEL	8
5.8	PROTECTION RELAY (NUMERICAL TYPE)	8
5.9	AUX. RELAYS	9
5.10	BIMETAL RELAYS	6
5.11	(BASE+ADVANCE) ELECTRIC CONTROL SYSTEM (ECS)	8
5.12	INSTRUMENT TRANSFORMERS – CT & PT (HV)	8
5.13	INSTRUMENT TRANSFORMERS – CT & PT (MV)	9
5.14	CIRCUIT BREAKER SF-6 /OUT DOOR EHV	6
5.15	VACCUM CIRCUIT BREAKERS	8
5.16	AIR CIRCUIT BREAKER	6
5.17	ISOLATORS / LOAD BREAK SWITCHES (HV INDOOR)	3
5.18	CONTACTOR	7



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Sr.No	ITEM	Indian Vendors	
5.19	MCCB	6	
5.20	TIMERS	7	
5.21	PUSH BUTTON & INDICATING LAMPS (Independent supply / Retrofitting / Alteration / Modification work)	10	
5.22	MCB (Independent supply / Retrofitting / Alteration / Modification work)	9	
5.23	HEAVY DUTY SWITCHES (Independent supply / Retrofitting / Alteration / Modification work)	4	
5.24	CONTROL SWITCHES FOR BREAKER (Independent supply / Retrofitting / Alteration / Modification work)	3	
5.25	CONTROL SWITCHES / SELECTOR SWITCHES (Independent supply / Retrofitting / Alteration / Modification work)	7	
5.26	EARTH LEAKAGE CIRCUIT BREAKER (Independent supply / Retrofitting / Alteration / Modification work)	7	
5.27	FUSES (Independent supply / Retrofitting / Alteration / Modification work)	6	
5.28	TRANSFORMERS-POWER-ABOVE 5MVA	9	
5.29	TRANSFORMERS-DISTRIBUTION-UPTO 5MVA	12	
5.30	TRANSFORMER-DISTRIBUTION (DRY TYPE)	14	
5.31	DRY TYPE LIGHTING TRANSFORMER (LV)	13	
5.32	Neutral Grounding Resistors/Transformers (NGR / NGT)	5	
5.33	BUS DUCT (HV)	10	



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Sr.No	ITEM	Indian Vendors	
5.34	BUS DUCT (MV)	12	
5.35	CAPACITOR BANK (MV/HV)	10	
5.36	BATTERIES-LEAD ACID (FLOODED)	3	
5.37	BATTERY CHARGERS	8	
5.38	BATTERIES-LEAD ACID (VRLA)	5	
5.39	BATTERIES-NICKLE CADMIUM	2	
5.40	UPS SYSTEM	8	
5.41	A.C. VARIABLE SPEED DRIVE	18	
5.42	LIGHTNING ARRESTORS	6	
5.43	EARTHING & LIGHTNING PROTECTION	4	
5.44	MOTOR-INDUCTION-HV (INDUSTRIAL. TYPE SAFE AREA, EXD/EXE)	12	
5.45	MOTOR-INDUCTION (HV INCREASED SAFETY ZN2, FLP/PRESSURIZED)	8	
5.46	MOTOR INDUCTION-MV (INDL.TYPE SAFE AREA, EXD/EXE)	9	
5.47	MOTOR-INDUCTION- MV (ZONE 2-TYPE E & N, FLP/PRESSURIZED)	8	
5.48	MOTOR-INDUCTION-MV (FLAME PROOF)	9	
5.49	SYNCHRONOUS MOTOR	7	
5.50	MOTORS - IMPORTED	0	
5.51	SYNCHRONOUS GENERATORS (HV)	5	
5.52	DG SET / EMERGENCY GENERATORS (MV)	18	
5.53	ACTUATORS-MOV	9	
5.54	CONTROL STATIONS- WEATHERPROOF	11	
5.55	CONTROL STATIONS / PANEL-FLAME PROOF	14	
5.56	JUNCTION BOXES (FLAME PROOF)	12	
5.57	LIGHTING FIXTURE & ACCESSORIES-HAZARDOUS	15	
5.58	LIGHTING & POWER PANELS (FLP)	7	
5.59	PLUGS/sockets/HANDLAMPS (FLAME PROOF)	9	
5.60	HIGH MAST LIGHTING SYSTEM	3	
5.61	LIGHTING FIXTURES (SAFE AREA)	7	
5.62	LIGHTING & POWER PANELS (SAFE AREA)	14	
5.63	EXTRA HIGH VOLTAGE –XLPE CABLES	8	
5.64	CABLES-HIGH VOLTAGE-XLPE (FRLS)	14	
5.65	MV POWER CABLE - FIRE SURVIVAL (FRLS)	9	
5.66	CABLES-MEDIUM VOLTAGE-POWER-XLPE & PVC	21	
5.67	CABLES: CONTROL-XLPE & PVC	29	
5.68	CABLES-FIRE ALARM AND COMMN.	7	
5.69	CONTROL CABLE - FIRE SURVIVAL (FRLS)	9	
5.70	CABLES COMMUNICATION (JELLY FIELD)	10	
5.71	PLANT COMMUNICATION (PA / PAGING) SYSTEM	2	
5.72	TELEPHONE (Instrument / EPABX)	10	
5.73	TETRA SYSTEM	5	
5.74	FIRE ALARM SYSTEM	8	
5.75	ELECTRICAL HEAT TRACING SYSTEM	8	
5.76	CATHODIC PROTECTION SYSTEM	10	
5.77	CABLE TRAYS GI /SS (Perforated /Ladder) & CABLE DUCTS	14	



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Sr.No	ITEM	Indian Vendors
5.78	CABLE TRAYS FRP	4
5.79	CABLE JOINTS & TERMINATION KITS	7
5.80	CABLE GLANDS (FOR HAZARDOUS AREA)	10
5.81	LIGHTING POLES (GALVANISED)	3
5.82	NIFPS (NITROGEN INJECTED FIRE PROTECTION SYSTEM)	1
5.83	DC MOTORS	0

SECTION-D : INSTRUMENTATION ITEMS

6.1	TUBE FITTINGS	18
6.2	INSTRUMENT TUBING	6
6.3	MACHINE MONITORING SYSTEMS	3
6.4	THERMO COUPLE EXTN.CABLES	8
6.5	SIGNAL CABLES	16
6.6	OPTICAL FIBRE CABLE & ASSOC.ITEM	14
6.7	FIELD BUS SIGNAL CABLES	4
6.8	SIGNAL CABLE - FIRE RESISTANT	12
6.9	SPECIAL LEVEL INSTRUMENTS (TUNNING FORK)	7
6.1	COPPER TUBES (COATED, BARE)	8
6.11	CORROSION MONITORS	4



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Sr.No	ITEM	Indian Vendors
6.12	CONTROL VALVE POSITIONER / SMART POSITIONER	5
6.13	SOLENOID VALVES	7
6.14	CONTROL VALVES	19
6.15	PRESSURE RELIEF VALVE	13
6.16	INSTRUMENT VALVES & MANIFOLDS	21
6.17	TANK PR. PROTECT. DEVICES / FLAME ARRESSTER	6
6.18	ON-OFF VALVES	19
6.19	SELF ACTUATED PR. CONTROL VALVES	10
6.20	SPECIAL CONTROL VALVES (BUTTERFLY)	16
6.21	DESUPERHEATERS & PRDS	16
6.22	PR. REGULATOR & SLAM SHUT VALVES	3
6.23	PILOT OPERATED SAFETY VALVES	10
6.24	PROCESS STREAM ANALYSERS (O2-ZIRCONIA)	6
6.25	GAS CHROMATOGRAPH (PROCESS)	6
6.26	STACK GAS ANALYSER SYSTEMS (EXTRACTIVE)	8
6.27	AMBIENT AIR ANALYSER SYSTEMS	3
6.28	PROCESS STREAM ANALYSER (IR/UV)	7
6.29	PROCESS STREAM ANALYSER (H.C.-TCD/FID)	5
6.30	ANALYSER SYSTEMS	8
6.31	STACK GAS ANALYSER SYSTEMS (INSITU)	7
6.32	STACK GAS ANALYSERS (SPM)	7
6.33	ORIFICE PLATES & FLANGES	12
6.34	FLOW ELEMENTS : (VENTURI, FLOW NOZZLES)	9
6.35	TEMP. ELEMENTS, THERMOWELLS	13
6.36	SKIN THERMOCOUPLES	8
6.37	SPECIAL TEMPERATURE ELEMENTS	5
6.38	SURGE RELIEF VALVE	1
6.39	SPECIAL CONTROL VALVES (PLUG)	1
6.40	SPECIAL CONTROL VALVE (FLUSH BOTTOM)	2
6.41	WATER QUALITY ANALYSERS (SILICA)	5
6.42	WATER QUALITY ANALYSER-DISSOLVED OXYGEN	9
6.43	WATER QUALITY ANALYSER SYSTEMS	7
6.44	PROCESS STREAM ANALYSER-MOISTURE/ DEW PT	2
6.45	PROCESS STREAM ANALYSER(PARAMAGNETIC-O2)	7
6.46	WATER QUALITY ANALYSERS (PH)	9
6.47	PROCESS STREAM ANALYSER(HYDROGEN-TCD)	4
6.48	PRODUCT QUALITY ANALYSER SYSTEMS	6
6.49	WATER QUALITY ANALYSERS (TURBIDITY)	7
6.50	WATER QUALITY ANALYSERS (CONDUCTIVITY)	9
6.51	PROCESS STREAM ANALYSER(IR/UV)	6
6.52	SO2 ANALYSER	2
6.53	WATER QUALITY ANALYSER-OIL IN H2O TOC/TC	4
6.54	WATER QUALITY ANALYSER-OIL IN H2O DISLVD	1
6.55	WATER QUALITY ANALYSERS(CHLORINE)	5



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Sr.No	ITEM	Indian Vendors	
6.56	FLOW ELEMENTS-WEDGE TYPE	2	
6.57	GAS DETECTION SYSTEMS	11	
6.58	FIRE & GAS DETECTION SYSTEMS	6	
6.59	PRODUCT QUALITY ANALYSERS (NIR)	4	
6.60	PRODUCT QUALITY ANALYSERS (VISCOSITY)	2	
6.61	PRODUCT QUALITY ANALYSERS (DENSITY)	2	
6.62	PRODUCT QUALITY ANALYSERS (FLASH POINT)	3	
6.63	PRODUCT QUALITY ANALYSERS (DISTILLATION)	1	
6.64	PRODUCT QUALITY ANALYSER (SULPHUR)	2	
6.65	STACK GAS ANALYSERS (O2-ZIRCONIA) + CO + CO2	5	
6.66	ANALYSER-DENSITY/SP. GRAVITY (NUCLEONIC)	4	
6.67	ANALYSER-DENSITY/SP GRAVITY (VIB CYLINDR)	3	
6.68	ANALYSER-DENSITY/SP GRAVITY (CORIOLIS)	5	
6.69	VEGA INDIA LEVEL & PRESSURE MEASUREMENT PVT LTD	2	
6.70	WOBBE METERS	0	
6.71	PROGRAMMABLE LOGIC CONTROLLERS (DMR)	9	
6.72	PROGRAMMABLE LOGIC CONTROLLERS (TMR/QMR, SIL3 CERTIFIED)	7	
6.73	PRESSURE GAUGES	13	



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Sr.No	ITEM	Indian Vendors	
6.74	DRAFT GAUGES	4	
6.75	DIFFERENTIAL PRESSURE GAUGES	8	
6.76	TEMP.GAUGES(BI METALLIC,FILLED SYSTEM)	11	
6.77	VARIABLE AREA FLOW METERS(I,T)	12	
6.78	MAGNETIC FLOW METERS	7	
6.79	TERMINAL AUTOMATION SYSTEM	6	
6.80	POSITIVE DISPLACEMENT METERS	4	
6.81	ULTRASONIC FLOW METER	10	
6.82	VORTEX FLOW METER	7	
6.83	TURBINE FLOW METERS	6	
6.84	MASS FLOW METERS	11	
6.85	GAUGE GLASSES & COCKS	11	
6.86	DRUM LEVEL INSTRUMENTS (ELECTRONIC)	4	
6.87	DRUM LEVEL INSTRUMENTS (BI-COLOUR GAUGE)	2	
6.88	TANK LEVEL INSTRUMENTS (FLOAT OPERATED)	6	
6.89	MAGNETIC LEVEL INSTRUMENTS	16	
6.90	SPL. LEVEL INSTRUMENTS-GUIDED WAVE RADAR	6	
6.91	TANK FARM MANAGEMENT SYSTEM	6	
6.92	TANK LEVEL INSTRUMENT (SERVO TYPE)	4	
6.93	SPECIAL LEVEL INSTRUMENTS (RF TYPE)	5	
6.94	SPECIAL LEVEL INSTRUMENTS (CAP.& COND.)	8	
6.95	NUCLEONIC LEVEL INSTRUMENTS	3	
6.96	CLOSED CIRCUIT TV	9	
6.97	FIELD INSTRUMENTS/TRANSMITTERS (P,DP,F,L,T,TD)	10	
6.98	TANK LEVEL INSTRUMENT (RADAR,ULTRASONIC)	11	
6.99	SPEED TANSMITTERS	3	
6.100	CONTROL PANEL & ACCESSORIES	11	
6.101	PREFABRICATED INSTRUMENT HOOKUPS	5	
6.102	SP. CONTROL VALVE (KNIFE GATE)	5	
6.103	FIRE PROTECTION SYSTEM (VALVES & ACC.)	2	
6.104	ANALYSER-DENSITY/SP.GRAVITY(V.CYLNDR,CORLIS)	6	
6.105	ANALYSER (AIR DEMAND/TOTAL SULPHUR)	0	
6.106	AVERAGING PITOT TUBES	6	
6.107	ANALYSERS (HYDROGEN SULPHIDE)	3	
6.108	VISCOSITY METER	5	
6.109	RUPTURE DISCS	2	
6.110	METER PROVERS	2	
6.111	GAS PRESSURE REDUCING SKIDS	8	
6.112	GAS METERING SYSTEM (ULTRASONIC)	5	
6.113	GAS METERING SYSTEM (TURBINE)	7	
6.114	GAS METERING SYSTEM -DUAL CHAMBR ORIFICE	3	
6.115	LIQUID METERING SYSTEM (ULTRASONIC)	2	
6.116	LIQUID METERING SYSTEM (TURBINE)	4	
6.117	LIQUID METERING SYSTEM (P D METERS)	1	



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Sr.No	ITEM	Indian Vendors	
6.118	LIQUID METERING SYSTEM (MASS FLOW METER)	6	
6.119	DISPLACER LEVEL INSTRUMENTS	7	
6.120	DISTRIBUTED CONTROL SYSTEMS	8	
6.121	TELEPHONE AND PAGING SYSTEMS	10	
6.122	FOUNDATION FIELD BUS (FF JB'S)	3	
6.123	JUNCTION BOXES (Flame Proof)	8	
6.124	FLAME SCANNERS	2	
6.125	PLC CABINETS / LOCAL CONTROL PANEL	7	
6.126	OPACITY ANALYSERS	1	
6.127	THERMAL MASS FLOWMETERS	4	
6.128	MCT BLOCKS	4	
6.129	BARRIERS (IS) / BARRIERS (FF)	2	
6.130	BEACONS / HOOTERS/ MCP	5	
6.131	AIR FILTER REGULATORS	13	
6.132	ACCESS CONTROL SYSTEM	4	
6.133	ANALYSER SHELTER	8	
6.134	LOOP POWERED INDICATORS	7	
6.135	FIRE PROOFING FOR INSTRUMENT ITEMS (FOR CABLE TRAYS/DUCTS)	3	
6.136	SUNSHADE FOR FIELD INSTRUMENTS	2	
6.137	METER RUN ASSEMBLY (INTEGRAL ORIFICE)	2	
6.138	PROXIMITY TYPE LIMIT SWITCH	2	
6.139	POSITION INDICATION SWITCHBOXES	2	
6.140	TERMINAL BLOCKS	5	
6.141	CABLE TRAY	14	
6.142	INSTRUMENT DB&B BALL VALVES	6	
6.143	MOTOR OPERATED VALVES	8	
6.144	CORROSION COUPONS	0	
6.145	OPTICAL PYROMETERS	0	
6.146	SPECIAL CONTROL VALVES (AXIAL)	0	
6.147	SPECIAL CONTROL VALVES (PISTON)	0	
6.148	AUTOMATIC GAS SAMPLER	1	
6.149	PRODUCT QUALITY ANALYSERS (RVP)	2	
6.150	TARGET FLOWMETERS	0	
6.151	RECEIVER INSTRUMENTS	1	
6.152	INFRARED TEMP MEASUREMENT SYSTEM	0	
6.153	ANTI SURGE CONTROL	0	
6.154	SPEED GOVERNOR FOR TURBINE	0	
6.155	PRESSURE SWITCHES	8	
6.156	SPECIAL CONTROL VALVES (ECC ROTARY PLUG)	6	
6.157	BLENDING AUTOMATION SYSTEMS	5	
6.158	GAUGE GLASSES & COCKS (HIGH PRESSURE SERVICES 900# & ABOVE)	4	
6.159	MAGNETIC LEVEL GAUGES (HIGH PRESSURE SERVICES 900# & ABOVE)	2	
6.160	PORTABLE NUCLEONIC SURVEY METER (BETA-GAMMA-NEUTRON)	0	
6.161	SP CONTROL VALVES (ECCENTRIC DISC HI PERFORMANCE TYPE)	6	



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Sr.No	ITEM	Indian Vendors	
6.162	SPECIAL CONTROL VALVES (SEGMENTAL)	6	
6.163	SPECIAL CONTROL VALVES (BALL CONTROL)	4	
6.164	SPECIAL CONTROL VALVES (VARIABLE CV)	3	
6.165	SPECIAL CONTROL VALVES (LOW CV)	5	
6.166	SAFETY VALVE BOILER SERVICE	3	
6.167	INTERFACE DEVICES	2	
6.168	ACTUATORS-MOV	6	
6.169	PROCESS STREAM ANALYSERS(ELECTROCHEM-02)	4	
6.170	ALARM PANEL / ALARM ANNUNCIATOR	7	
6.171	PUSH BUTTON AND INDICATING LAMPS	12	
6.172	TUBE FITTINGS (SEAL OIL, LUBE OIL, HYDROCARBON & OTHER CRITICAL APPLICATIONS)	16	
6.173	DIGITAL INDICATOR / DIGITAL MULTIPOINT INDICATOR	2	
6.174	CONTROL VALVE - ANGLE TYPE	1	
6.175	I/P CONVERTER	2	
6.176	FLOW METER ULTRASONIC TYPE - For Flare Gas Application	2	
6.177	CLAMP-ON ULTRASONIC FLOW TRANSMITTER	1	
6.178	INSTRUMENT VALVES & MANIFOLDS FOR ANALYSERS / SAMPLING SYSTEMS	3	
6.179	PRESSURE REGULATOR FOR ANALYSERS / SAMPLING SYSTEMS	4	
6.180	GAS CYLINDER PRESSURE REGULATOR DUAL STAGE WITH PRESSURE GAUGE & SAFETY VALVE FOR ANALYSERS / SAMPLING SYSTEMS	5	
6.181	PELTIER / COMPRESSOR COOLER FOR GAS SAMPLE FOR ANALYSERS / SAMPLING SYSTEMS	3	
6.182	DIAPHRAGM PUMP SINGLE / DOUBLE STAGE / HEAD PUMP FOR GAS SAMPLE FOR ANALYSERS / SAMPLING SYSTEMS	3	
6.183	PURGE CONTROLLER FOR PANEL FOR ANALYSERS / SAMPLING SYSTEMS	2	
6.184	VORTEX COOLER FOR ANALYSERS FOR ANALYSERS / SAMPLING SYSTEMS	1	
6.185	FILTERS FOR ANALYSERS / SAMPLING SYSTEMS	4	
6.186	HOT EXTRACTION SAMPLE PROBE FOR ANALYSERS / SAMPLING SYSTEMS	2	
6.187	BULK POWER SUPPLY WITH SMPS (24 V DC) FOR ANALYSERS / SAMPLING SYSTEMS	4	
6.188	ETHERNET SWITCHES	0	
6.189	HMI SOFTWARE	0	
6.190	ELECTROMECHANICAL RELAY	9	
6.191	CONDITION MONITORING SYSTEM- (Rev-16 : Deleted)	0	

 IndianOil			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1	STATIC EQUIPMENT		
1.1	PRESSURE VESSEL -CS (UP TO 25MM)		
A	INDIAN BIDDERS		
1.1.1	ABF ENGINEERING INTERNATIONAL PVT. LTD.	INDIA	
1.1.2	ACOUSTICS INDIA PVT LTD	INDIA	
1.1.3	ADOR WELDING LTD.	INDIA	
1.1.4	AERO ENGINEERS	INDIA	
1.1.5	ALFA LAVAL INDIA LTD	INDIA	
1.1.6	GE POWER INDIA LIMITED	INDIA	Rev-13 : Name Updation
1.1.7	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.1.8	BARODA EQUIPMENT AND VESSELS PVT LTD	INDIA	
1.1.9	BEEKAY ENGINEERING CORPORATION	INDIA	
1.1.10	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.1.11	BILFINGER PLANT EQUIPMENTS PVT LTD (FML)	INDIA	
1.1.12	BTL EPC LIMITED	INDIA	
1.1.13	CHANDERPUR INDUSTRIES PVT LTD	INDIA	
1.1.14	CICB-CHEMICON PVT.LTD.	INDIA	
1.1.15	<u>ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)</u>	<u>INDIA</u>	Rev.13: Under Holiday List 29.03.2022
1.1.16	EXPO GAS CONTAINERS LTD.	INDIA	
1.1.17	<u>FABTECH PROJECTS & ENGINEERS LTD.</u>	<u>INDIA</u>	Rev.13: Name Deletion
1.1.18	FAB-TECH WORKS & CONSTRUCTIONS PVT LTD.	INDIA	Rev.11: Name Updation
1.1.19	FACT ENGINEERING WORKS	INDIA	
1.1.20	FURNACE FABRICA (INDIA) LIMITED	INDIA	
1.1.21	GEECY ENGINEERING PVT LTD	INDIA	
1.1.22	GMM PFAUDLER LTD	INDIA	
1.1.23	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.1.24	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.1.25	GRAND PRIX ENGINEERING PVT LTD.	INDIA	
1.1.26	GRASIM INDUSTRIES LIMITED	INDIA	Rev.7: Name Change
1.1.27	<u>HDO TECHNOLOGIES LTD</u>	<u>INDIA</u>	Rev.13: Name Deletion
1.1.28	INDCON PROJECTS AND EQUIPMENT LTD	INDIA	Rev.12: Name Change
1.1.29	<u>INDIA TUBE MILLS & METAL IND LTD</u>	<u>INDIA</u>	Rev.13: Name Deletion
1.1.30	INDUS PROJECTS LIMITED	INDIA	
1.1.31	INDUSTRIAL MANUFACTURERS	INDIA	
1.1.32	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.1.33	ISGEC HITACHI ZOSEN LTD	INDIA	
1.1.34	JINDAL STEEL & POWER LTD	INDIA	
1.1.35	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.1.36	LOYAL EQUIPMENTS LIMITED	INDIA	Rev-13 : Name Updation
1.1.37	<u>MGNALLY SAYAJI ENGINEERING LTD</u>	<u>INDIA</u>	Rev.16: Name Deletion
1.1.38	MEENAKSHI ASSOCIATES PVT LTD	INDIA	
1.1.39	MULTIMAX ENGINEERING WORKS PVT LTD	INDIA	Rev.1: Name Change
1.1.40	MULTITEX FILTRATION ENGINEERS LTD.	INDIA	
1.1.41	NEW FIELD INDUSTRIAL EQUIPMENT PVT LTD	INDIA	
1.1.42	NEWTON ENGINEERING AND CHEMICALS LTD	INDIA	Rev.12: Name Change
1.1.43	NILE LIMITED	INDIA	
1.1.44	<u>NOVATECH PROCESS EQUIPMENT</u>	<u>INDIA</u>	Rev.13: Name Duplication

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.1.45	NOVATECH PROJECTS INDIA PVT LTD	INDIA	
1.1.46	ORIENTAL ENTERPRISE PVT. LTD	INDIA	
1.1.47	OSWAL INFRASTRUCTURE LIMITED	INDIA	
1.1.48	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.1.49	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.1.50	PRABHA STEEL INDUSTRIES	INDIA	
1.1.51	PRAJ INDUSTRIES LIMITED	INDIA	
1.1.52	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.1.53	PROGEN SYSTEMS & TECHNOLOGIES LTD	INDIA	
1.1.54	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.1.55	RADIANT HEAT EXCHANGER PVT.LTD.	INDIA	
1.1.56	RAJ ENGINEERING CO.	INDIA	Rev-11 : Name Updation
1.1.57	RAVI INDUSTRIES	INDIA	
1.1.58	RELIANCE FABRICATIONS PVT LTD	INDIA	
1.1.59	SAURASHTRA ENGINEERING CORPN. PVT LTD	INDIA	
1.1.60	SHARP TANKS & STRUCTURALS PRIVATE LTD	INDIA	Rev-11 : Name Updation
1.1.61	SHREE SATYANARAYAN INDUSTRIAL SUPPLIERS PRIVATE LIMITED	INDIA	Rev-13 : Name Updation
1.1.62	SHRI LAKSHMI PRABHA ENGINEERING INDUSTRIES PRIVATE LIMITED	INDIA	Rev-13 : Name Updation
1.1.63	SREE RAMAKRISHNA ENGINEERING ENTERPRISES	INDIA	
1.1.64	SUDHIR BROTHERS	INDIA	
1.1.65	TECHNIP INDIA LTD.	INDIA	
1.1.66	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.1.67	TEMASME VESELEX INDIA PVT. LTD.	INDIA	
1.1.68	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.1.69	UNIQUE CHEMOPLANT EQUIPMENTS	INDIA	
1.1.70	UNITED HEAT TRANSFER PVT LTD	INDIA	
1.1.71	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.1.72	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.1.73	ISHAN EQUIPMENTS PVT LTD	INDIA	Rev-13 : Name Updation
1.1.74	NUBERG ENGINEERING LTD	INDIA	
1.1.75	REYNOLDS CHEMEQUIP PVT LTD	INDIA	Rev.16: Name Updation
1.1.76	UNIVERSAL HEAT EXCHANGERS LTD.	INDIA	
1.1.77	GEMINI ENGI-FAB LIMITED	INDIA	Rev 11 : Name Addition
1.1.78	CRYOSTAR TANKS AND VESSELS PVT. LTD	INDIA	Rev 11 : Name Addition
1.1.79	PRECISION GASIFICATION SERVICES PRIVATE LIMITED	INDIA	Rev 13 : Name Addition
1.1.80	FIL SEP EQUIPMENTS PVT LTD	INDIA	Rev 15: Name Addition
1.1.81	SPARKON ENGINEERS	INDIA	Rev 15: Name Addition
1.2	POLYMERISER REACTOR SYSTEM		
A	INDIAN BIDDERS		
1.2.1	ZEPPELIN SYSTEMS GMBH India	INDIA	
1.3	PRESSURE VESSEL -CS (26-50MM)		
A	INDIAN BIDDERS		
1.3.1	GE POWER INDIA LIMITED	INDIA	Rev-13 : Name Updation
1.3.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.3.3	BEEKAY ENGINEERING CORPORATION	INDIA	
1.3.4	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.3.5	BILFINGER PLANT EQUIPMENTS PVT LTD (FML)	INDIA	
1.3.6	CHANDERPUR INDUSTRIES PVT LTD	INDIA	
1.3.7	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.3.8	EXPO GAS CONTAINERS LTD.	INDIA	
1.3.9	FABTECH PROJECTS & ENGINEERS LTD.	INDIA	Rev.13: Name Deletion
1.3.10	FAB-TECH WORKS & CONSTRUCTIONS PVT LTD.	INDIA	Rev.11: Name Updation
1.3.11	GEECY ENGINEERING PVT LTD	INDIA	
1.3.12	GMM PFAUDLER LTD	INDIA	
1.3.13	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.3.14	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.3.15	GRAND PRIX ENGINEERING PVT LTD.	INDIA	
1.3.16	GRASIM INDUSTRIES LIMITED	INDIA	Rev.7: Name Change
1.3.17	INDCON PROJECTS AND EQUIPMENT LTD	INDIA	Rev.12: Name Change
1.3.18	INDIAN TUBE MILLS & METAL IND. LTD	INDIA	
1.3.19	INDUS PROJECTS LIMITED	INDIA	
1.3.20	INDUSTRIAL MANUFACTURERS	INDIA	
1.3.21	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.3.22	ISGEC HITACHI ZOSEN LTD	INDIA	
1.3.23	JINDAL STEEL & POWER LTD	INDIA	
1.3.24	THE KCP LIMITED	INDIA	
1.3.25	LARSEN & TOUBRO LTD	INDIA	
1.3.26	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.3.27	MEENAKSHI ASSOCIATES PVT. LTD.	INDIA	
1.3.28	MULTITEX FILTRATION ENGINEERS LTD.	INDIA	
1.3.29	NEW FIELD INDUSTRIAL EQUIPMENT PVT LTD	INDIA	
1.3.30	NILE LIMITED	INDIA	
1.3.31	ORIENTAL ENTERPRISE PVT. LTD	INDIA	
1.3.32	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.3.33	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.3.34	PRABHA STEEL INDUSTRIES	INDIA	
1.3.35	PRAJ INDUSTRIES LIMITED	INDIA	
1.3.36	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.3.37	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.3.38	RAJ ENGINEERING CO.	INDIA	Rev-11 : Name Updation
1.3.39	RAVI INDUSTRIES	INDIA	
1.3.40	SAURASHTRA ENGINEERING CORPN. PVT LTD	INDIA	
1.3.41	SHARP TANKS & STRUCTURALS PRIVATE LTD	INDIA	Rev-11 : Name Updation
1.3.42	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.3.43	UNIQUE CHEMOPLANT EQUIPMENTS	INDIA	
1.3.44	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.3.45	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.3.46	HINDUSTAN DORR OLIVER	INDIA	Rev-13 : Name Deletion
1.3.47	ISHAN EUIPMENTS PVT LTD	INDIA	
1.3.48	NEWTON ENGINEERING AND CHEMICALS LTD	INDIA	Rev.12: Name Change
1.3.49	UNIVERSAL HEAT EXCHANGERS LIMITED	INDIA	Rev-12 : Name Updation
1.3.50	SUDHIR BROTHERS	INDIA	Rev-8 : Bidder addition
1.3.51	GEMINI ENGI-FAB LIMITED	INDIA	Rev 11 : Name Addition

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.3.52	SPARKON ENGINEERS (Note : Acceptable manufacturing range : upto 35mm)	INDIA	Rev 15 : Name Addition
1.4	PRESSURE VESSEL-CS (51-100MM)		
A	INDIAN BIDDERS		
1.4.1	GE POWER INDIA LIMITED	INDIA	Rev-13 : Name Updation
1.4.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.4.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.4.4	BILFINGER PLANT EQUIPMENTS PVT LTD (FML)	INDIA	
1.4.5	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.4.6	FAB-TECH WORKS & CONSTRUCTIONS PVT LTD.	INDIA	Rev.11: Name Updation
1.4.7	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.4.8	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.4.9	INDUS PROJECTS LIMITED	INDIA	
1.4.10	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.4.11	ISGEC HITACHI ZOSEN LTD	INDIA	
1.4.12	THE KCP LIMITED	INDIA	
1.4.13	LARSEN & TOUBRO LTD	INDIA	
1.4.14	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.4.15	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.4.16	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.4.17	PRAJ INDUSTRIES LIMITED	INDIA	
1.4.18	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.4.19	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.4.20	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.4.21	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.4.22	INDIA TUBE MILLS & METAL IND LTD	INDIA	Rev.13: Name Deletion
1.5	PRESSURE VESSEL-CS (>100MM)		
A	INDIAN BIDDERS		
1.5.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.5.2	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.5.3	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.5.4	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.5.5	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.5.6	ISGEC HITACHI ZOSEN LTD	INDIA	
1.5.7	LARSEN & TOUBRO LTD	INDIA	
1.5.8	LLOYDS STEELS INDUSTRIES LTD	INDIA	
1.5.9	PRAJ INDUSTRIES LIMITED	INDIA	
1.6	PRESSURE VESSEL-SS (UP TO 25MM)		
A	INDIAN BIDDERS		
1.6.1	ABF ENGINEERING INTERNATIONAL PVT. LTD.	INDIA	
1.6.2	ACOUSTICS INDIA PVT LTD	INDIA	
1.6.3	ADOR WELDING LTD.	INDIA	
1.6.4	AERO ENGINEERS	INDIA	
1.6.5	ALFA LAVAL INDIA LTD	INDIA	
1.6.6	GE POWER INDIA LIMITED	INDIA	Rev-13 : Name Updation

 IndianOil			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.6.7	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.6.8	BTL EPC LIMITED	INDIA	
1.6.9	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.6.10	EXPO GAS CONTAINERS LTD.	INDIA	
1.6.11	FABTECH PROJECTS & ENGINEERS LTD.	INDIA	Rev.13: Name Deletion
1.6.12	FAB-TECH WORKS & CONSTRUCTIONS PVT LTD.	INDIA	Rev.11: Name Updation
1.6.13	GEECY ENGINEERING PVT LTD	INDIA	
1.6.14	GEMINI ENGI-FAB LIMITED	INDIA	
1.6.15	GMM PFAUDLER LTD	INDIA	
1.6.16	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.6.17	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.6.18	GRAND PRIX ENGINEERING PVT LTD.	INDIA	
1.6.19	INDCON PROJECTS AND EQUIPMENT LTD	INDIA	Rev.12: Name Change
1.6.20	INDUS PROJECTS LIMITED	INDIA	
1.6.21	INDUSTRIAL MANUFACTURERS	INDIA	
1.6.22	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.6.23	ISGEC HITACHI ZOSEN LTD	INDIA	
1.6.24	JINDAL STEEL & POWER LTD	INDIA	
1.6.25	LARSEN & TOUBRO LTD	INDIA	
1.6.26	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.6.27	MULTITEX FILTRATION ENGINEERS LTD.	INDIA	
1.6.28	NEW FIELD INDUSTRIAL EQUIPMENT PVT LTD	INDIA	
1.6.29	NILE LIMITED	INDIA	
1.6.30	NOVATECH PROJECTS INDIA PVT LTD	INDIA	
1.6.31	ORIENTAL ENTERPRISE PVT. LTD	INDIA	
1.6.32	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.6.33	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.6.34	PRABHA STEEL INDUSTRIES	INDIA	
1.6.35	PRAJ INDUSTRIES LIMITED	INDIA	
1.6.36	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.6.37	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.6.38	RADIANT HEAT EXCHANGER PVT.LTD.	INDIA	
1.6.39	RAJ ENGINEERING CO.	INDIA	Rev-11 : Name Updation
1.6.40	RELIANCE FABRICATIONS PVT LTD	INDIA	
1.6.41	SHARP TANKS & STRUCTURALS PRIVATE LTD	INDIA	Rev-11 : Name Updation
1.6.42	SHREE SATYANARAYAN INDUSTRIAL SUPPLIERS PRIVATE LIMITED	INDIA	Rev-13 : Name Updation
1.6.43	SPARKON ENGINEERS	INDIA	
1.6.44	TECHNIP INDIA LTD.	INDIA	
1.6.45	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.6.46	THE KCP LIMITED	INDIA	
1.6.47	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.6.48	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.6.49	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.6.50	ARJUN TECHNOLOGIES (INDIA) LTD	INDIA	
1.6.51	HDO TECHNOLOGIES LTD	INDIA	Rev.13: Name Deletion
1.6.52	INDIA TUBE MILLS & METAL IND LTD	INDIA	Rev.13: Name Deletion
1.6.53	ISHAN EQUIPMENTS PVT LTD	INDIA	

 IndianOil			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.6.54	LOYAL EQUIPMENTS LIMITED	INDIA	Rev-13 : Name Updation
1.6.55	MEENAKSHI ASSOCIATES PVT LTD	INDIA	
1.6.56	NUBERG ENGINEERING LTD	INDIA	
1.6.57	REYNOLDS CHEMEQUIP PVT LTD	INDIA	Rev.16: Name Updation
1.6.58	SUNGJIN GEOTECH CO.LTD	INDIA	
1.6.59	UNIVERSAL HEAT EXCHANGERS LTD	INDIA	
1.6.60	TRANS ENGINEERS INDIA PVT. LTD (Acceptable range : upto 14 mm)	INDIA	Rev-16 : Name Addition
1.7	PRESSURE VESSEL-SS (FROM 26MM to 50 MM)		
A	INDIAN BIDDERS		
1.7.1	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.7.2	GE POWER INDIA LIMITED	INDIA	Rev-13 : Name Updation
1.7.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.7.4	CHANDERPUR INDUSTRIES PVT.LTD.	INDIA	
1.7.5	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.7.6	EXPO GAS CONTAINERS LTD.	INDIA	
1.7.7	FABTECH PROJECTS & ENGINEERS LTD.	INDIA	Rev.13: Name Deletion
1.7.8	GEECY ENGINEERING PVT LTD	INDIA	
1.7.9	GMM PFAUDLER LTD	INDIA	
1.7.10	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.7.11	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.7.12	INDUS PROJECTS LIMITED	INDIA	
1.7.13	INDUSTRIAL MANUFACTURERS	INDIA	
1.7.14	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.7.15	ISGEC HITACHI ZOSEN LTD	INDIA	
1.7.16	THE KCP LIMITED	INDIA	
1.7.17	LARSEN & TOUBRO LTD	INDIA	
1.7.18	LLOYDS STEELS INDUSTRIES LTD	INDIA	
1.7.19	NEW FIELD INDUSTRIAL EQUIPMENT PVT LTD	INDIA	
1.7.20	NILE LIMITED	INDIA	
1.7.21	ORIENTAL ENTERPRISE PVT. LTD	INDIA	
1.7.22	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.7.23	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.7.24	PRAJ INDUSTRIES LIMITED	INDIA	
1.7.25	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.7.26	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.7.27	RADIANT HEAT EXCHANGER PVT.LTD.	INDIA	
1.7.28	SHARP TANKS & STRUCTURALS PRIVATE LTD	INDIA	Rev-11 : Name Updation
1.7.29	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.7.30	CHANDERPUR INDUSTRIES PVT.LTD.	INDIA	
1.7.31	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.7.32	INDIA TUBE MILLS & METAL IND LTD	INDIA	Rev.13: Name Deletion
1.7.33	SUNGJIN GEOTECH CO.LTD	INDIA	
1.7.34	GEMINI ENGI-FAB LIMITED	INDIA	Rev 11 : Name Addition
1.8	PRESSURE VESSEL-SS (> 50 MM)		
A	INDIAN BIDDERS		

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
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M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.8.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.8.2	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.8.3	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.8.4	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.8.5	ISGEC HITACHI ZOSEN LTD	INDIA	
1.8.6	LARSEN & TOUBRO LTD	INDIA	
1.8.7	LLOYDS STEELS INDUSTRIES LTD	INDIA	
1.8.8	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.8.9	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.8.10	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.8.11	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.9	PRESSURE VESSEL -LOW ALLOY STEEL		
A	INDIAN BIDDERS		
1.9.1	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.9.2	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.9.3	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.9.4	FABTECH PROJECTS & ENGINEERS LTD.	INDIA	Rev.13: Name Deletion
1.9.5	GMM PFAUDLER LTD	INDIA	
1.9.6	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.9.7	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.9.8	INDCON PROJECTS AND EQUIPMENT LTD	INDIA	Rev.12: Name Change
1.9.9	INDUS PROJECTS LIMITED	INDIA	
1.9.10	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.9.11	ISGEC HITACHI ZOSEN LTD	INDIA	
1.9.12	LARSEN & TOUBRO LTD	INDIA	
1.9.13	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.9.14	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.9.15	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.9.16	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.9.17	RAJ ENGINEERING CO.	INDIA	Rev-11 : Name Updation
1.9.18	TECHNIP INDIA LTD.	INDIA	
1.9.19	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.9.20	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.9.21	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.9.22	HDO TECHNOLOGIES LTD.	INDIA	Rev.13: Name Deletion
1.9.23	HYUNDAI HEAVY INDUSTRIES CO.LTD	INDIA	
1.9.24	IL SUNG ENGINEERING & COST CO.LTD	INDIA	Rev-13 : Bidder Deletion
1.9.25	SUNGJIN GEOTECH CO.LTD	INDIA	
1.9.26	UNIVERSAL HEAT EXCHANGERS LTD	INDIA	
1.9.27	SUDHIR BROTHERS	INDIA	Rev-8 : Bidder addition
1.9.28	NUBERG ENGINEERING LIMITED	INDIA	Rev-13 : Bidder addition
1.10	PRESSURE VESSEL – LTCS		
A	INDIAN BIDDERS		
1.10.1	AERO ENGINEERS	INDIA	
1.10.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.10.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.10.4	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.10.5	EXPO GAS CONTAINERS LTD.	INDIA	
1.10.6	FABTECH PROJECTS & ENGINEERS LTD.	INDIA	Rev.13: Name Deletion
1.10.7	FAB-TECH WORKS & CONSTRUCTIONS PVT LTD.	INDIA	Rev.11: Name Updation
1.10.8	GMM PFAUDLER LTD	INDIA	
1.10.9	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.10.10	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.10.11	GRAND PRIX ENGINEERING PVT LTD.	INDIA	
1.10.12	INDCON PROJECTS AND EQUIPMENT LTD	INDIA	Rev.12: Name Change
1.10.13	INDIA TUBE MILLS & METAL IND LTD	INDIA	Rev.13: Name Deletion
1.10.14	INDUS PROJECTS LIMITED	INDIA	
1.10.15	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.10.16	ISGEC HITACHI ZOSEN LTD	INDIA	
1.10.17	JINDAL STEEL & POWER LTD	INDIA	
1.10.18	LARSEN & TOUBRO LTD	INDIA	
1.10.19	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.10.20	MEENAKSHI ASSOCIATES PVT. LTD.	INDIA	
1.10.21	NILE LIMITED	INDIA	
1.10.22	ORIENTAL ENTERPRISE PVT. LTD	INDIA	
1.10.23	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.10.24	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.10.25	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.10.26	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.10.27	RAJ ENGINEERING CO.	INDIA	Rev-11 : Name Updation
1.10.28	SUNGJIN GEOTECH CO. LTD	INDIA	
1.10.29	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.10.30	TEMASME VESELEX INDIA PVT. LTD.	INDIA	
1.10.31	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.10.32	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.10.33	HDO TECHNOLOGIES LTD	INDIA	
1.10.34	INDUSTRIAL MANUFACTURERS	INDIA	
1.10.35	REYNOLDS CHEMEQUIP PVT LTD	INDIA	Rev.16: Name Updation
1.10.36	UNIVERSAL HEAT EXCHANGERS LIMITED	INDIA	Rev-12 : Name Updation
1.10.37	SUDHIR BROTHERS	INDIA	Rev-8 : Bidder addition
1.10.38	GEMINI ENGI-FAB LIMITED	INDIA	Rev-11 : Bidder addition
1.11	PRESSURE VESSEL-CS/LAS+SS CLAD		
A	INDIAN BIDDERS		
1.11.1	ALFA LAVAL INDIA LTD	INDIA	
1.11.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.11.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.11.4	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.11.5	EXPO GAS CONTAINERS LTD.	INDIA	
1.11.6	FABTECH PROJECTS & ENGINEERS LTD.	INDIA	Rev.13: Name Deletion
1.11.7	GEECY ENGINEERING PVT LTD	INDIA	
1.11.8	GODREJ & BOYCE MFG. CO. LTD.	INDIA	




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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.11.9	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.11.10	INDIA TUBE MILLS & METAL IND LTD	INDIA	Rev.13: Name Deletion
1.11.11	INDUS PROJECTS LIMITED	INDIA	
1.11.12	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.11.13	ISGEC HITACHI ZOSEN LTD	INDIA	
1.11.14	LARSEN & TOUBRO LTD	INDIA	
1.11.15	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.11.16	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.11.17	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.11.18	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.11.19	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.11.20	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.11.21	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.11.22	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.11.23	INDUSTRIAL MANUFACTURERS	INDIA	
1.11.24	UNIVERSAL HEAT EXCHANGERS LIMITED	INDIA	Rev-12 : Name Updation
1.11.25	WALCHANDNAGAR INDUSTRIES LTD	INDIA	
1.11.26	CRYOSTAR TANKS AND VESSELS PVT. LTD.	INDIA	Rev.5: New Addition
1.11.27	GMM PFAUDLER LTD	INDIA	Rev.5: New Addition
1.11.28	GEMINI ENGI-FAB LIMITED	INDIA	Rev.11: New Addition
1.11.29	NUBERG ENGINEERING LIMITED	INDIA	Rev-13 : Bidder addition
1.12	PRESSURE VESSEL-MONEL CLADDED		
A	INDIAN BIDDERS		
1.12.1	ALFA LAVAL INDIA LTD	INDIA	
1.12.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.12.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.12.4	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.12.5	EXPO GAS CONTAINERS LTD. India	INDIA	
1.12.6	GEECY ENGINEERING PVT LTD India	INDIA	
1.12.7	GODREJ & BOYCE MFG. CO. LTD. India	INDIA	
1.12.8	ISGEC HEAVY ENGINEERING LTD India	INDIA	
1.12.9	ISGEC HITACHI ZOSEN LTD India	INDIA	
1.12.10	LARSEN & TOUBRO LTD India	INDIA	
1.12.11	PHILS HEAVY ENGINEERING PVT LIMITED India	INDIA	
1.12.12	R. D. ENGINEERS (INDIA) PVT. LTD India	INDIA	
1.12.13	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.13	PRESSURE VESSEL- MONEL		
A	INDIAN BIDDERS		
1.13.1	ALFA LAVAL INDIA LTD	INDIA	
1.13.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.13.3	PHILS HEAVY ENGINEERING PVT LIMITED India	INDIA	
1.13.4	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.14	CYCLONES (REACTOR & REGENERATOR)		
A	INDIAN BIDDERS		

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
	NO INDIAN BIDDER AVAILABLE		
1.15	DEMISTER-WIRE MESH TYPE		
A	INDIAN BIDDERS		
1.15.1	CONTINENTAL PROFILES LTD	INDIA	
1.15.2	EVERGREEN TECHNOLOGIES PVT.LTD.	INDIA	
1.15.3	HAVER STANDARD INDIA PVT LTD	INDIA	
1.15.4	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	
1.15.5	KOCH ENGINEERED SOLUTIONS INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.15.6	PACE ENGINEERING INDUSTRIES PVT. LTD.	INDIA	
1.15.7	JEETMULL JAICHANDLALL PVT LTD INDIA	INDIA	
1.16	COLUMN/TOWER CARBON STEEL		
A	INDIAN BIDDERS		
1.16.1	ALFA LAVAL INDIA LTD	INDIA	
1.16.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.16.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.16.4	BTL EPC LIMITED	INDIA	
1.16.5	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.16.6	EXPO GAS CONTAINERS LTD.	INDIA	
1.16.7	FABTECH PROJECTS & ENGINEERS LTD.	INDIA	Rev.13: Name Deletion
1.16.8	FAB-TECH WORKS & CONSTRUCTIONS PVT LTD.	INDIA	Rev.11: Name Updation
1.16.9	GEECY ENGINEERING PVT LTD	INDIA	
1.16.10	GEMINI ENGI-FAB LTD	INDIA	
1.16.11	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.16.12	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.16.13	IL SUNG ENGINEERING	INDIA	Rev-13 : Bidder Deletion
1.16.14	INDIA TUBE MILLS & METALS INDIA LTD	INDIA	
1.16.15	INDUS PROJECTS LIMITED	INDIA	
1.16.16	INDUSTRIAL MANUFACTURERS	INDIA	Rev.11: Name Updation
1.16.17	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.16.18	ISGEC HITACHI ZOSEN LTD	INDIA	
1.16.19	LARSEN & TOUBRO LTD	INDIA	
1.16.20	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.16.21	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.16.22	PRAJ INDUSTRIES LIMITED	INDIA	
1.16.23	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.16.24	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.16.25	RAJ ENGINEERING CO.	INDIA	Rev-11 : Name Updation
1.16.26	SHARP TANKS & STRUCTURALS PRIVATE LTD	INDIA	Rev-11 : Name Updation
1.16.27	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.16.28	THE KCP LIMITED	INDIA	
1.16.29	UNIVERSAL HEAT EXCHANGERS LTD	INDIA	
1.16.30	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.16.31	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.16.32	SUDHIR BROTHERS	INDIA	Rev-8 : Bidder addition
1.16.33	NUBERG ENGINEERING LIMITED	INDIA	Rev-13 : Bidder addition

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.17	COLUMN/TOWER STAINLESS STEEL		
A	INDIAN BIDDERS		
1.17.1	ALFA LAVAL INDIA LTD	INDIA	
1.17.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.17.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.17.4	BTL EPC LIMITED	INDIA	
1.17.5	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.17.6	EXPO GAS CONTAINERS LTD.	INDIA	
1.17.7	FAB-TECH WORKS & CONSTRUCTIONS PVT LTD.	INDIA	Rev.11: Name Updation
1.17.8	GEECY ENGINEERING PVT LTD	INDIA	
1.17.9	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.17.10	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.17.11	INDIA TUBE MILLS & METAL IND LTD	INDIA	Rev.13: Name Deletion
1.17.12	INDUS PROJECTS LIMITED	INDIA	
1.17.13	INDUSTRIAL MANUFACTURERS	INDIA	
1.17.14	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.17.15	ISGEC HITACHI ZOSEN LTD	INDIA	
1.17.16	LARSEN & TOUBRO LTD	INDIA	
1.17.17	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.17.18	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.17.19	PRAJ INDUSTRIES LIMITED	INDIA	
1.17.20	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.17.21	SHARP TANKS & STRUCTURALS PRIVATE LTD	INDIA	Rev-11 : Name Updation
1.17.22	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.17.23	THE KCP LIMITED	INDIA	
1.17.24	UNIVERSAL HEAT EXCHANGERS LIMITED	INDIA	Rev-12 : Name Updation
1.17.25	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.17.26	GEMINI ENGI-FAB LIMITED	INDIA	Rev.11: New Addition
1.18	COLUMN/TOWER - LOW ALLOY STEEL		
A	INDIAN BIDDERS		
1.18.1	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.18.2	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.18.3	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.18.4	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.18.5	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.18.6	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.18.7	ISGEC HITACHI ZOSEN LTD	INDIA	
1.18.8	LARSEN & TOUBRO LTD	INDIA	
1.18.9	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.18.10	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.18.11	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.18.12	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.19	COLUMN/TOWER - LTCS		
A	INDIAN BIDDERS		

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.19.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.19.2	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.19.3	EXPO GAS CONTAINERS LTD.	INDIA	
1.19.4	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.19.5	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.19.6	INDIA TUBE MILLS & METAL IND LTD	INDIA	Rev.13: Name Deletion
1.19.7	INDUS PROJECTS LIMITED	INDIA	
1.19.8	INDUSTRIAL MANUFACTURERS	INDIA	Rev.11: Name Updation
1.19.9	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.19.10	ISGEC HITACHI ZOSEN LTD	INDIA	
1.19.11	LARSEN & TOUBRO LTD	INDIA	
1.19.12	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.19.13	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.19.14	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.19.15	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.19.16	UNIVERSAL HEAT EXCHANGERS LTD	INDIA	
1.19.17	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.19.18	SUDHIR BROTHERS	INDIA	Rev-8 : Bidder addition
1.20	COLUMN/TOWER-CS/LAS+SS CLADDED		
A	INDIAN BIDDERS		
1.20.1	ALFA LAVAL INDIA LTD	INDIA	
1.20.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.20.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.20.4	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.20.5	EXPO GAS CONTAINERS LTD.	INDIA	
1.20.6	GEECY ENGINEERING PVT LTD	INDIA	
1.20.7	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.20.8	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.20.9	INDUS PROJECTS LIMITED	INDIA	
1.20.10	INDUSTRIAL MANUFACTURERS	INDIA	
1.20.11	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.20.12	ISGEC HITACHI ZOSEN LTD	INDIA	
1.20.13	LARSEN & TOUBRO LTD	INDIA	
1.20.14	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.20.15	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.20.16	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.20.17	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.20.18	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.20.19	GEMINI ENGI-FAB LIMITED	INDIA	Rev.11: New Addition
1.20.20	NUBERG ENGINEERING LIMITED	INDIA	Rev-13 : Bidder addition
1.21	COLUMN - MONEL CLAD		
A	INDIAN BIDDERS		
1.21.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.21.2	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.21.3	EXPO GAS CONTAINERS LTD.	INDIA	

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.21.4	GEECY ENGINEERING PVT LTD	INDIA	
1.21.5	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.21.6	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.21.7	ISGEC HITACHI ZOSEN LTD	INDIA	
1.21.8	LARSEN & TOUBRO LTD	INDIA	
1.21.9	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.21.10	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.21.11	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.21.12	VIJAY TANKS & VESSELS PVT LTD	INDIA	Rev.9: Bidder Addition
1.22	CCR PLATFORMING REACTOR		
A	INDIAN BIDDERS		
1.22.1	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.22.2	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.22.3	LARSEN & TOUBRO LTD	INDIA	
1.23	REACTOR/SEPARATOR-SS CLAD 1.25 Cr 0.5 MO		
A	INDIAN BIDDERS		
1.23.1	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.23.2	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.23.3	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.23.4	ISGEC HITACHI ZOSEN LTD	INDIA	
1.23.5	LARSEN & TOUBRO LTD	INDIA	
1.23.6	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.24	REACTOR/SEPARATOR-SS CLAD-2.25 Cr-1 Mo		
A	INDIAN BIDDERS		
1.24.1	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.24.2	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.24.3	ISGEC HITACHI ZOSEN LTD	INDIA	
1.24.4	LARSEN & TOUBRO LTD	INDIA	
1.25	REACTOR/SEPARATOR- CLAD 2.25Cr 1Mo 0.25V		
A	INDIAN BIDDERS		
1.25.1	ISGEC HITACHI ZOSEN LTD	INDIA	
1.25.2	LARSEN & TOUBRO LTD	INDIA	
1.26	COLUMN/TOWER-CS (51-100MM THK)		
A	INDIAN BIDDERS		
1.26.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.26.2	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.26.3	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.26.4	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.26.5	INDUS PROJECTS LIMITED	INDIA	
1.26.6	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.26.7	ISGEC HITACHI ZOSEN LTD	INDIA	
1.26.8	LARSEN & TOUBRO LTD	INDIA	
1.26.9	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.26.10	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.26.11	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.26.12	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.27	HEAT EXCHANGER CARBON STEEL		
A	INDIAN BIDDERS		
1.27.1	ADOR WELDING LTD.	INDIA	
1.27.2	AERO ENGINEERS	INDIA	
1.27.3	ALFA LAVAL INDIA LTD	INDIA	
1.27.4	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.27.5	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.27.6	BTL EPC LIMITED	INDIA	
1.27.7	CICB-CHEMICON PVT.LTD.	INDIA	
1.27.8	COPERION IDEAL PVT. LTD.	INDIA	
1.27.9	<u>ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)</u>	<u>INDIA</u>	Rev.13: Under Holiday List 29.03.2022
1.27.10	EXPO GAS CONTAINERS LTD.	INDIA	
1.27.11	GANSONS LTD	INDIA	
1.27.12	GEECY ENGINEERING PVT LTD	INDIA	
1.27.13	GMM PFAUDLER LTD	INDIA	
1.27.14	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.27.15	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.27.16	INDCON PROJECTS AND EQUIPMENT LTD	INDIA	Rev.12: Name Change
1.27.17	<u>INDIA TUBE MILLS & METAL IND LTD</u>	<u>INDIA</u>	Rev.13: Name Deletion
1.27.18	INDUS PROJECTS LIMITED	INDIA	
1.27.19	INDUSTRIAL MANUFACTURERS	INDIA	
1.27.20	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.27.21	ISGEC HITACHI ZOSEN LTD	INDIA	
1.27.22	LARSEN & TOUBRO LTD	INDIA	
1.27.23	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.27.24	MEENAKSHI ASSOCIATES PVT LTD	INDIA	
1.27.25	MULTIMAX ENGINEERING WORKS PVT LTD	INDIA	Rev.1: Name Change
1.27.26	NEW FIELD INDUSTRIAL EQUIPMENT PVT LTD	INDIA	
1.27.27	NEWTON ENGINEERING AND CHEMICALS LTD	INDIA	Rev.12: Name Change
1.27.28	ORIENTAL ENTERPRISE PVT. LTD	INDIA	
1.27.29	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.27.30	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.27.31	PRABHA STEEL INDUSTRIES	INDIA	
1.27.32	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.27.33	R. D. ENGINEERS (INDIA) PVT. LTD	INDIA	
1.27.34	RADIANT HEAT EXCHANGER PVT.LTD.	INDIA	
1.27.35	RAJ ENGINEERING CO.	INDIA	Rev-11 : Name Updation
1.27.36	RELIANCE FABRICATIONS PVT LTD	INDIA	
1.27.37	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.27.38	TEMA INDIA LTD.	INDIA	
1.27.39	TEMASME VESELEX INDIA PVT. LTD.	INDIA	
1.27.40	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.27.41	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.27.42	SUDHIR BROTHERS	INDIA	Rev-8 : Bidder addition


			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.27.43	GEMINI ENGI-FAB LIMITED	INDIA	Rev-11 : Bidder addition
1.27.44	NUBERG ENGINEERING LIMITED	INDIA	Rev-13 : Bidder addition
1.28	HEAT EXCHANGER-ROD AND PLATE TYPE BAFFLE		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
1.29	HEAT EXCHANGER STAINLESS STEEL.		
A	INDIAN BIDDERS		
1.29.1	ADOR WELDING LTD.	INDIA	
1.29.2	AERO ENGINEERS	INDIA	
1.29.3	ALFA LAVAL INDIA LTD	INDIA	
1.29.4	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.29.5	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.29.6	BTL EPC LIMITED	INDIA	
1.29.7	CICB-CHEMICON PVT.LTD.	INDIA	
1.29.8	COPERION IDEAL PVT. LTD.	INDIA	
1.29.9	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.29.10	GANSONS LTD	INDIA	
1.29.11	GEECY ENGINEERING PVT LTD	INDIA	
1.29.12	GMM PFAUDLER LTD	INDIA	
1.29.13	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.29.14	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.29.15	INDCON PROJECTS AND EQUIPMENT LTD	INDIA	Rev.12: Name Change
1.29.16	INDIA TUBE MILLS & METAL IND LTD	INDIA	Rev.13: Name Deletion
1.29.17	INDUS PROJECTS LIMITED	INDIA	
1.29.18	INDUSTRIAL MANUFACTURERS	INDIA	
1.29.19	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.29.20	ISGEC HITACHI ZOSEN LTD	INDIA	
1.29.21	LARSEN & TOUBRO LTD	INDIA	
1.29.22	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
1.29.23	NEW FIELD INDUSTRIAL EQUIPMENT PVT LTD	INDIA	
1.29.24	ORIENTAL ENTERPRISE PVT. LTD	INDIA	
1.29.25	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.29.26	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.29.27	PRABHA STEEL INDUSTRIES	INDIA	
1.29.28	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.29.29	RADIANT HEAT EXCHANGER PVT.LTD.	INDIA	
1.29.30	RAJ ENGINEERING CO.	INDIA	Rev-11 : Name Updation
1.29.31	RELIANCE FABRICATIONS PVT LTD	INDIA	
1.29.32	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.29.33	TEMA INDIA LTD	INDIA	
1.29.34	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.29.35	UNIVERSAL HEAT EXCHANGERS LTD.	INDIA	
1.29.36	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.29.37	GEMINI ENGI-FAB LIMITED	INDIA	Rev-11 : Bidder addition
1.29.38	NUBERG ENGINEERING LIMITED	INDIA	Rev-13 : Bidder addition

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.30	HEAT EXCHANGER LOW ALLOY STEEL		
A	INDIAN BIDDERS		
1.30.1	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.30.2	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.30.3	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.30.4	GEECY ENGINEERING PVT LTD	INDIA	
1.30.5	GEMINI ENGI-FAB LIMITED	INDIA	
1.30.6	GANSONS LIMITED	INDIA	Rev-11 : Name Updation
1.30.7	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.30.8	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.30.9	INDUSTRIAL MANUFACTURERS	INDIA	
1.30.10	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.30.11	ISGEC HITACHI ZOSEN LTD	INDIA	
1.30.12	LARSEN & TOUBRO LTD	INDIA	
1.30.13	LLYODS STEEL INDUSTRIES LTD	INDIA	
1.30.14	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.30.15	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.30.16	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.30.17	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.30.18	TEMA INDIA LTD	INDIA	
1.30.19	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.30.20	UNIVERSAL HEAT EXCHANGERS LIMITED	INDIA	Rev-12 : Name Updation
1.30.21	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.30.22	SUDHIR BROTHERS	INDIA	Rev-8 : Bidder addition
1.31	HEAT EXCHANGER LTCS.		
A	INDIAN BIDDERS		
1.31.1	AERO ENGINEERS	INDIA	
1.31.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.31.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.31.4	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.31.5	GMM PFAUDLER LTD	INDIA	
1.31.6	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.31.7	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.31.8	INDIA TUBE MILLS & METAL IND LTD	INDIA	Rev.13: Name Deletion
1.31.9	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.31.10	ISGEC HITACHI ZOSEN LTD	INDIA	
1.31.11	LARSEN & TOUBRO LTD	INDIA	
1.31.12	MEENAKSHI ASSOCIATES PVT. LTD.	INDIA	
1.31.13	NEW FIELD INDUSTRIAL EQUIPMENT PVT LTD	INDIA	
1.31.14	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.31.15	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.31.16	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.31.17	RAJ ENGINEERING CO.	INDIA	Rev-11 : Name Updation
1.31.18	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.31.19	TEMA INDIA LTD	INDIA	


			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.31.20	TEMASME VESELEX INDIA PVT. LTD.	INDIA	
1.31.21	UNIVERSAL HEAT EXCHANGERS LIMITED	INDIA	Rev-12 : Name Updation
1.31.22	GEMINI ENGI-FAB LIMITED	INDIA	Rev-11 : Bidder addition
1.32	HEAT EXCHANGER 3.5 % NI STEEL		
A	INDIAN BIDDERS		
1.32.1	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.32.2	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.32.3	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.32.4	INDUS PROJECTS LIMITED	INDIA	
1.32.5	LARSEN & TOUBRO LTD	INDIA	
1.32.6	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.32.7	UNIVERSAL HEAT EXCHANGERS LTD.	INDIA	
1.33	HEAT EXCHANGER-CS/LAS+SS CLAD		
A	INDIAN BIDDERS		
1.33.1	ALFA LAVAL INDIA LTD	INDIA	
1.33.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.33.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.33.4	<u>ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)</u>	<u>INDIA</u>	Rev.13: Under Holiday List 29.03.2022
1.33.5	GEECY ENGINEERING PVT LTD	INDIA	
1.33.6	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.33.7	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.33.8	<u>INDIA TUBE MILLS & METAL IND LTD</u>	<u>INDIA</u>	Rev.13: Name Deletion
1.33.9	INDUSTRIAL MANUFACTURERS	INDIA	
1.33.10	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.33.11	ISGEC HITACHI ZOSEN LTD	INDIA	
1.33.12	LARSEN & TOUBRO LTD	INDIA	
1.33.13	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.33.14	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.33.15	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.33.16	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.33.17	TEMA INDIA LIMITED	INDIA	
1.33.18	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.33.19	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.33.20	UNIVERSAL HEAT EXCHANGERS LIMITED	INDIA	Rev-12 : Name Updation
1.33.21	GEMINI ENGI-FAB LIMITED	INDIA	Rev-11 : Bidder addition
1.34	HEAT EXCHANGER (PLATES-WELDED)		
A	INDIAN BIDDERS		
1.34.1	ALFA LAVAL INDIA LTD	INDIA	
1.34.2	DOVER INDIA PVT LTD	INDIA	
1.34.3	IDMC LTD	INDIA	
1.34.4	FUNKE HEAT EXCHANGERS INDIA LTD.	INDIA	
1.34.5	KELVION INDIA PRIVATE LIMITED	INDIA	
1.34.6	SONDEX HEAT EXCHANGERS INDIA PVT. LTD.	INDIA	
1.34.7	TRANTER INDIA PRIVATE LIMITED	INDIA	

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.34.8	GEA ECOFLEX INDIA PVT LTD (GEA GROUP)	INDIA	
1.34.9	GEA VIEX INC (GEA GROUP)	INDIA	
1.35	HEAT EXCHANGERS (PLATE -GASKETTED)		
A	INDIAN BIDDERS		
1.35.1	ALFA LAVAL INDIA LTD	INDIA	
1.35.2	FUNKE HEAT EXCHANGERS INDIA LTD.	INDIA	
1.35.3	KELVION INDIA PRIVATE LIMITED	INDIA	
1.35.4	IDMC LIMITED	INDIA	
1.35.5	LARSEN & TOUBRO LTD	INDIA	
1.35.6	GEA ECOFLEX INDIA PVT LTD (GEA GROUP)	INDIA	
1.35.7	SONDEX HEAT EXCHANGERS INDIA PVT. LTD.	INDIA	
1.35.8	TRANTER INDIA PRIVATE LIMITED	INDIA	
1.36	HEAT EXCHANGER NF- (BRASS, CU-Ni)		
A	INDIAN BIDDERS		
1.36.1	AERO ENGINEERS	INDIA	
1.36.2	ALFA LAVAL INDIA LTD	INDIA	
1.36.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.36.4	CICB-CHEMICON PVT.LTD.	INDIA	
1.36.5	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.36.6	GEMINI ENGI-FAB LIMITED	INDIA	
1.36.7	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.36.8	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.36.9	INDIA TUBE MILLS & METAL IND LTD	INDIA	Rev.13: Name Deletion
1.36.10	INDUSTRIAL MANUFACTURERS	INDIA	
1.36.11	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.36.12	LARSEN & TOUBRO LTD	INDIA	
1.36.13	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.36.14	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.36.15	REYNOLDS CHEMEQUIP PVT LTD	INDIA	Rev.16: Name Updation
1.36.16	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.36.17	TEMA INDIA LIMITED	INDIA	
1.36.18	UNIVERSAL HEAT EXCHANGERS LIMITED	INDIA	Rev-12 : Name Updation
1.36.19	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.37	AIR FIN COOLER (CS & SS)		
A	INDIAN BIDDERS		
1.37.1	AKSHAR PRECISION TUBES PVT LIMITED	INDIA	
1.37.2	BGR ENERGY SYSTEMS LIMITED	INDIA	
1.37.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.37.4	ENGINEMATES HEAT TRANSFER PVT. LTD.	INDIA	
1.37.5	KELVION INDIA PRIVATE LIMITED	INDIA	
1.37.6	LARSEN & TOUBRO LTD	INDIA	
1.37.7	PAHARPUR COOLING TOWERS LTD.	INDIA	
1.37.8	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.37.9	GEI INDUSTRIAL SYSTEM LTD	INDIA	Rev:12 : Deleted

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.38	AIR FIN COOLERS (DUPLEX SS)		
A	INDIAN BIDDERS		
1.38.1	KELVION INDIA PRIVATE LIMITED	INDIA	
1.38.2	BGR ENERGY SYSTEMS LIMITED	INDIA	
1.38.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.38.4	<u>GE INDUSTRIAL SYSTEM LTD</u>	<u>INDIA</u>	Rev:12 : Deleted
1.39	SAMPLE COOLER		
A	INDIAN BIDDERS		
1.39.1	AERO ENGINEERS	INDIA	
1.39.2	CHEMTRON SCIENCE LABORATORIES PVT. LTD. INDIA	INDIA	
1.39.3	ENPRO INDUSTRIES PVT LTD	INDIA	
1.39.4	FLOWLINE INSTRUMENTATION PVT. LTD. INDIA	INDIA	
1.39.5	FORBES MARSHALL PVT. LTD. INDIA	INDIA	
1.39.6	GRAND PRIX ENGINEERING PVT LTD.	INDIA	
1.39.7	GRASIM INDUSTRIES LIMITED	INDIA	Rev.7: Name Change
1.39.8	MEENAKSHI ASSOCIATES PVT LTD	INDIA	
1.39.9	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.39.10	RELIANCE FABRICATIONS PVT LTD	INDIA	
1.39.11	TUBE WELD ENGINEERING WORKS LTD.	INDIA	
1.40	CRYOGENIC VAPORIZER-DIRECT STEAM HEATED		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
1.41	HEAT EXCHANGER (AL. BRAZED FIN TYPE)		
A	INDIAN BIDDERS		
1.41.1	SUMITOMO PRECISION PRODUCTS CO LTD	INDIA	
1.42	HEAT EXCH. MONEL / MONEL CLAD		
A	INDIAN BIDDERS		
1.42.1	ALFA LAVAL INDIA LTD	INDIA	
1.42.2	<u>ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)</u>	<u>INDIA</u>	Rev.13: Under Holiday List 29.03.2022
1.42.3	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.42.4	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.42.5	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.42.6	TEMA INDIA LTD	INDIA	
1.42.7	GEMINI ENGI-FAB LIMITED	INDIA	Rev-11 : Bidder addition
1.43	HEAT EXCH. NICKEL / NICKEL CLAD		
A	INDIAN BIDDERS		
1.43.1	ALFA LAVAL INDIA LTD	INDIA	
1.43.2	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.43.3	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.44	HEAT EXCH. HASTALLOY / HASTALLOY CLAD		

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
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M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
A	INDIAN BIDDERS		
1.44.1	ALFA LAVAL INDIA LTD	INDIA	
1.44.2	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.44.3	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.44.4	TEMA INDIA LTD	INDIA	
1.45	ELECTRIC HEATER		
A	INDIAN BIDDERS		
1.45.1	ESCORTS LIMITED	INDIA	
1.45.2	ETIREX CHROMALOX	INDIA	
1.45.3	SANDVIK ASIA PVT LTD-KANTHAL DIVISION	INDIA	
1.45.4	KANTILAL, CHUNILAL & SONS	INDIA	Rev.1: Addition
1.46	HEAT EXCHANGER SS-DUPLEX		
A	INDIAN BIDDERS		
1.46.1	ALFA LAVAL INDIA LTD	INDIA	
1.46.2	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.46.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.46.4	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.46.5	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.46.6	INDUSTRIAL MANUFACTURERS	INDIA	Rev.11: Name Updation
1.46.7	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.46.8	LARSEN & TOUBRO LTD	INDIA	
1.46.9	PATELS AIR TEMP (INDIA) LIMITED	INDIA	Rev-16 : Name Updation
1.46.10	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.46.11	REYNOLDS CHEMEQUIP PVT LTD	INDIA	Rev.16: Name Updation
1.46.12	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.46.13	TEMA INDIA LTD	INDIA	
1.46.14	UNIVERSAL HEAT EXCHANGERS LIMITED	INDIA	Rev-12 : Name Updation
1.46.15	WALCHANDNAGAR INDUSTRIES LTD	INDIA	Rev-16 : Name Updation
1.46.16	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	Rev.1: Name Change
1.46.17	GEMINI ENGI-FAB LIMITED	INDIA	Rev-11 : Bidder addition
1.46.18	UNITED HEAT TRANSFER PRIVATE LIMITED	INDIA	Rev-13 : Bidder addition
1.47	HEAT EXCHANGER - ALLOY 625		
A	INDIAN BIDDERS		
1.47.1	FLASH FORGE PVT LTD.	INDIA	
1.47.2	GODREJ & BOYCE	INDIA	
1.47.3	ISGEC	INDIA	
1.47.4	LARSEN & TOUBRO	INDIA	
1.47.5	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.47.6	TEMA INDIA LIMITED	INDIA	
1.47.7	TITANIUM EQUIPMENT & ANODE MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev-14 : Name Updation
1.48	LOUVERS FOR AIR FIN COOLERS		
A	INDIAN BIDDERS		
1.48.1	GEI INDUSTRIAL SYSTEM LTD	INDIA	Rev:12 : Deleted

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.49	EJECTOR (ENGINEERED)		
A	INDIAN BIDDERS		
1.49.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.49.2	CRYSTAL INDUSTRIAL SYNDICATE PVT LTD.	INDIA	
1.49.3	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.49.4	MAZDA LIMITED	INDIA	
1.49.5	MICRO PRECISION PRODUCTS PVT LTD	INDIA	
1.49.6	NEW FIELD INDUSTRIAL EQUIPMENT PVT LTD	INDIA	
1.49.7	SSP PVT LTD	INDIA	
1.50	EJECTOR (UNENGINEERED)		
A	INDIAN BIDDERS		
1.50.1	CHEM PROCESS SYSTEM PVT. LTD.	INDIA	
1.50.2	MAZDA LIMITED	INDIA	
1.50.3	NEW FIELD INDUSTRIAL EQUIPMENT PVT LTD	INDIA	
1.51	SILENCER		
A	INDIAN BIDDERS		
1.51.1	ACOUSTICS INDIA PVT LTD	INDIA	
1.51.2	BBM ACOUSTIC INDIA PVT LTD	INDIA	
1.51.3	BURGESS MANNING(INDIA) PVT LTD	INDIA	
1.51.4	FLO-DYNE CONTROLS(INDIA)PVT LTD	INDIA	
1.51.5	GRAND PRIX ENGINEERING PVT LTD.	INDIA	
1.51.6	INDIRA INDUSTRIES	INDIA	
1.51.7	MICROPRECESION PRODUCTS	INDIA	
1.51.8	PR ACOUSTICAL & ENGINEERING WORKS(P)LTD	INDIA	
1.52	VACUUM EJECTOR CONDENSER SYS(ENGINEERED)		
A	INDIAN BIDDERS		
1.52.1	GODREJ & BOYCE MFG. CO. LTD	INDIA	
1.52.2	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.53	VACUUM EJECTOR CONDSR SYS (UNENGINEERED)		
A	INDIAN BIDDERS		
1.53.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	
1.53.2	NEW FIELD INDUSTRIAL EQUIPMENT	INDIA	
1.53.3	SSP LTD	INDIA	
1.54	DEMISTER-VANE TYPE		
A	INDIAN BIDDERS		
1.54.1	FINEPAC STRUCTURES PVT. LTD.	INDIA	
1.54.2	GRAND PRIX ENGINEERING PVT LTD	INDIA	
1.54.3	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change
1.54.4	KOCH ENGINEERED SOLUTIONS INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.54.5	SULZER INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.55	EXPANSION JOINT-METALLIC		

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
A	INDIAN BIDDERS		
1.55.1	FLEXATHERM EXPANLLOW PVT LTD	INDIA	
1.55.2	FLEXICAN BELLOWS AND HOSES PRIVATE LIMITED	INDIA	
1.55.3	FLEXOCON ENGINEERS PRIVATE LIMITED	INDIA	
1.55.4	LONESTAR INDUSTRIES	INDIA	
1.55.5	METALLIC BELLOWS (INDIA) PRIVATE LIMITED	INDIA	
1.55.6	WITZENMANN GMBH	INDIA	
1.56	AIR PRE-HEATER (CAST)		
A	INDIAN BIDDERS		
1.56.1	KAMAL ENCON INDUSTRIES LIMITED	INDIA	Rev-11 : Name Updation
1.57	AIR PRE-HEATER (GLASS TUBE)		
A	INDIAN BIDDERS		
1.57.1	KAMAL ENCON INDUSTRIES LIMITED	INDIA	Rev-11 : Name Updation
1.58	BURNER-CONVENTIONAL		
A	INDIAN BIDDERS		
1.58.1	AIROIL FLAREGAS (INDIA) LTD.	INDIA	
1.59	BURNER-LOW NO_x (PROCESS FIRED HEATER)		
A	INDIAN BIDDERS		
	NIL		
1.60	BURNER-SRU		
A	INDIAN BIDDERS		
	NIL		
1.61	AIR HEATER (DIRECT FIRED)		
A	INDIAN BIDDERS		
	NIL		
1.62	LNG VAPORIZER		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
1.63	TOWER PACKING: METALLIC (NON-PROPRIETARY)		
A	INDIAN BIDDERS		
1.63.1	HI-PACK MASS TRANSFER PRODUCTS	INDIA	
1.63.2	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change
1.63.3	KOCH ENGINEERED SOLUTIONS INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.63.4	MASS TRANSFER PRODUCT INDUSTRIES	INDIA	
1.63.5	SWAN ENTERPRISES PVT LTD	INDIA	
1.64	TOWER PCKG & ASSTD INTL: METALLIC (PROPRIETARY)		
A	INDIAN BIDDERS		
1.64.1	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.64.2	KOCH ENGINEERED SOLUTIONS INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.64.3	SULZER INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.65	TOWER PKG:NON METALLIC(PROPRIETARY)		
A	INDIAN BIDDERS		
1.65.1	KOCH ENGINEERED SOLUTIONS INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.65.2	KOCH GLITSCH	INDIA	
1.65.3	SULZER INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.65.4	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change
1.66	TOWER PACKING: CERAMIC		
A	INDIAN BIDDERS		
1.66.1	DEVSON INSULATORS PVT. LTD.	INDIA	
1.66.2	TOPACK CERAMICS PVT LTD	INDIA	
1.66.3	Khyati Ceramics	INDIA	
1.66.4	Fullmoon Industrial Ceramics (P) Ltd	INDIA	
1.66.5	Filtra Catalysts & Chemicals Limited	INDIA	
1.66.6	Nilgiri Chemical Stoneware Co. Private Limited	INDIA	
1.66.7	Oxide (India) Pvt. Ltd	INDIA	
1.66.8	Excel Micron Poona PVT LTD	INDIA	
1.67	COLUMN TRAYS-HIGH CAPACITY		
A	INDIAN BIDDERS		
1.67.1	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change
1.67.2	KOCH ENGINEERED SOLUTIONS INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.67.3	SULZER INDIA LIMITED	INDIA	
1.67.4	UOP	INDIA	
1.68	NON-PROP. PACKGS WITH CONVENL INTERNALS		
A	INDIAN BIDDERS		
1.68.1	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.68.2	KAMAL ENCON INDUSTRIES LIMITED	INDIA	Rev-11 : Name Updation
1.68.3	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change
1.68.4	KOCH ENGINEERED SOLUTIONS INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.68.5	LARSEN & TOUBRO LTD	INDIA	
1.68.6	SULZER INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.69	NON-PROP PKG,HIGH QUAL DISR& INL-UN ENGIN		
A	INDIAN BIDDERS		
1.69.1	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.69.2	KAMAL ENCON INDUSTRIES LIMITED	INDIA	Rev-11 : Name Updation
1.69.3	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change
1.69.4	KOCH ENGINEERED SOLUTIONS INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.69.5	SULZER INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.70	INLET FEED DEVICE (VANE TYPE)		
A	INDIAN BIDDERS		
1.70.1	GODREJ & BOYCE MFG. CO. LTD.	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.70.2	KAMAL ENCON INDUSTRIES LIMITED	INDIA	Rev-11 : Name Updation
1.70.3	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change
1.71	SEPARATOR INTERNALS		
A	INDIAN BIDDERS		
1.71.1	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.71.2	KAMAL ENCON INDUSTRIES LIMITED	INDIA	Rev-11 : Name Updation
1.71.3	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change
1.71.4	KOCH ENGINEERED SOLUTIONS INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.71.5	SULZER INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
1.72	REACTOR INTERNALS		
A	INDIAN BIDDERS		
1.72.1	ANDRITZ EUROSLOT INDIA PVT. LTD.	INDIA	
1.72.2	AQSEPTENCE GROUP INDIA PVT. LTD.	INDIA	
1.72.3	BILFINGER WATER TECHNOLOGIES (I) PVT LTD	INDIA	Rev.15: NAME DELETION
1.72.4	EUROSLOT KDSS INDIA PVT LTD	INDIA	Rev.15: NAME DELETION
1.72.5	EVERGREEN TECHNOLOGIES PVT LTD INDIA	INDIA	
1.72.6	GODREJ AND BOYCE MFG. CO. LTD.	INDIA	
1.72.7	HEAVY ENGINEERING SERVICES (A UNIT OF EPC CONSTRUCTIONS INDIA LTD)	INDIA	Rev:9 : Holiday List upto 23.03.2022
1.72.8	ISGEC HITACHI ZOSEN LIMITED	INDIA	
1.72.9	KAMAL ENGG INDIA	INDIA	
1.72.10	LARSEN & TOUBRO LTD	INDIA	
1.72.11	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.73	SPRAY NOZZLE-PROCESS		
A	INDIAN BIDDERS		
1.73.1	DEMACH ENGINEERS (P) LTD.	INDIA	
1.73.2	DE'S TECHNICO	INDIA	
1.73.3	FIRE TECH EQUIPMENTS & SYSTEMS PVT LTD	INDIA	
1.73.4	HD FIRE PROTECT PRIVATE LTD INDIA	INDIA	
1.73.5	JOHN ZINK COMPANY LTD	INDIA	
1.73.6	LECHLER (INDIA) PVT LIMITED	INDIA	
1.73.7	SIDDHARTH ENTERPRISES	INDIA	
1.73.8	SPRAYING SYSTEMS (INDIA) PVT. LTD.	INDIA	
1.73.9	SPRAYTECH	INDIA	
1.74	SPRAY NOZZLE-TORCH OIL		
A	INDIAN BIDDERS		
1.74.1	SPRAYING SYSTEMS LTD.	INDIA	
1.75	TOWER PACKING:CARBON		
A	INDIAN BIDDERS		
1.75.1	BLAST CARBOBLOCKS PVT. LTD.	INDIA	
1.75.2	CARBON PRODUCTS INDIA	INDIA	
1.75.3	SUGUNA INTERNATIONAL	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.76	TOWER PACKINGS:PVC & PP(NON-PROPRIETORY)		
A	INDIAN BIDDERS		
1.76.1	HI-PACK MASS TRANSFER PRODUCTS	INDIA	
1.76.2	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change
1.76.3	MASS TRANSFER PRODUCT INDUSTRIES	INDIA	
1.77	WASTE HEAT BOILERS		
A	INDIAN BIDDERS		
1.77.1	GE POWER INDIA LIMITED	INDIA	Rev-13 : Name Updation
1.77.2	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.77.3	CHEEMA BOILERS	INDIA	
1.77.4	ISGEC	INDIA	
1.77.5	L&T	INDIA	
1.77.6	THERMAL SYSTEMS	INDIA	
1.77.7	THERMAX BABCOCK & WILCOX ENERGY SOLUTIONS LIMITED	INDIA	Rev-15 : Name Updation
1.77.8	THERMAX LIMITED	INDIA	Rev-14 : Name Deletion
1.77.9	WALCHANDNAGAR INDUSTRIES LTD.	INDIA	
1.78	REFRACTORY FIRE BRICKS		
A	INDIAN BIDDERS		
1.78.1	ABS REFRACTORIES PVT. LTD	INDIA	
1.78.2	ASHOKE REFRACTORIES PVT LTD	INDIA	
1.78.3	ASSOCIATED CERAMICS LTD.	INDIA	
1.78.4	CHAMPION CERAMICS PVT LTD	INDIA	
1.78.5	CONTINENTAL REFRACTORIES PVT LTD	INDIA	
1.78.6	DALMIA REFRACTORIES LTD.	INDIA	
1.78.7	GITA REFRACTORIES PVT LIMITED	INDIA	
1.78.8	MAHAKOSHAL REFRACTORIES PVT.LTD.	INDIA	
1.78.9	MAITHAN CERAMIC LTD	INDIA	
1.78.10	MANISHRI REFRACTORIES & CERAMICS PVT LTD	INDIA	
1.78.11	MPR REFRACTORIES	INDIA	
1.78.12	NATIONAL REFRACTORIES	INDIA	
1.78.13	NILACHAL REFRACTORIES LTD	INDIA	
1.78.14	OCL INDIA LTD	INDIA	
1.78.15	PACIFIC REFRACTORIES LTD	INDIA	
1.78.16	PREMIER REFRACTORIES OF INDIA PVT LTD	INDIA	
1.78.17	RAASI REFRACTORIES LTD	INDIA	
1.78.18	RAJ CERAMICS	INDIA	
1.78.19	RAJHANS REFRACTORIES (P) LTD	INDIA	
1.78.20	RHI CLASIL LTD	INDIA	
1.78.21	SHRI VALLEY REFRACTORIES LIMITED	INDIA	
1.78.22	TRL KROSAKI REFRACTORIES LIMITED	INDIA	
1.78.23	SHREEKANT INDUS	INDIA	
1.79	INSULATING REFRACTORY CASTABLE		
A	INDIAN BIDDERS		
1.79.1	CALDERYS INDIA REF.LTD	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.79.2	CARBORUNDUM UNIVERSAL LTD	INDIA	
1.79.3	CASTWELL INDUSTRIES PVT. LTD.	INDIA	
1.79.4	JSL REFRACTORIES LIMITED	INDIA	
1.79.5	MAHAKOSHAL REFRACTORIES PVT.LTD.	INDIA	
1.79.6	MAITHAN CERAMIC LTD	INDIA	
1.79.7	MPR REFRACTORIES	INDIA	
1.79.8	OCL INDIA LTD	INDIA	
1.79.9	PACIFIC REFRACTORIES LTD	INDIA	
1.79.10	PREMIER REFRACTORIES OF INDIA PVT LTD	INDIA	
1.79.11	PROGRESSIVE REFRACTORY & MONOLITHICS P.L	INDIA	
1.79.12	SHARAD REFRACTORIES PVT LTD	INDIA	
1.79.13	SHARADAA CERAMICS PVT. LTD.	INDIA	
1.79.14	TRL KROSAKI REFRACTORIES LIMITED	INDIA	
1.79.15	VESUVIUS INDIA LTD.	INDIA	
1.80	SULPHUR TRAPS		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
1.81	STORAGE TANKS, BULLETS & MOUNDED BULLETS (Deleted)		Rev.2: Deleted
1.82	DEAERATOR		
A	INDIAN BIDDERS		
1.82.1	THE ANUP ENGINEERING LIMITED	INDIA	Rev-14 : Name Updation
1.82.2	ESSAR HEAVY ENGG SERVICES (UNIT OF EPIL)	INDIA	Rev.13: Under Holiday List 29.03.2022
1.82.3	G.R. ENGINEERING PRIVATE LIMITED	INDIA	
1.82.4	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.82.5	ISGEC	INDIA	
1.82.6	PHILS HEAVY ENGINEERING PVT LIMITED	INDIA	
1.83	FILTER - BASKET		
A	INDIAN BIDDERS		
1.83.1	BOMBAY CHEMICAL EQUIPMENTS	INDIA	
1.83.2	FIL SEP EQUIPMENTS PVT LTD	INDIA	
1.83.3	FILTRATION ENGINEER (I) PVT LTD	INDIA	
1.83.4	FLASH POINT EQUIPMENTS PVT LTD	INDIA	
1.83.5	GRAND PRIX ENGINEERING PVT LTD	INDIA	
1.83.6	GUJARAT OTOFILT	INDIA	
1.83.7	MAHLE FILTER SYSTEMS (INDIA) PRIVATE LIMITED	INDIA	
1.83.8	MULTITEX FILTRATION ENGINEERS LTD	INDIA	
1.83.9	PALL INDIA PRIVATE LIMITED	INDIA	Rev.14: Name Updation
1.83.10	PETROMAR ENGINEERED SOLUTIONS PRIVATE LIMITED	INDIA	Rev.15: Name Updation
1.83.11	SUNGOV ENGINEERING PVT LTD	INDIA	
1.83.12	SUPERFLO FILTERS PVT LTD INDIA	INDIA	
1.84	FILTER - CARTRIDGE/CANDLE		
A	INDIAN BIDDERS		

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.84.1	KLENGAS TECH LLP	INDIA	Rev.4: Name Updation
1.84.2	AAF INDIA PVT LTD	INDIA	
1.84.3	CECO EMTROL BUELL INDIA PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.84.4	PYRO CLARK RELIANCE LEVEL SOLUTIONS INIDA PVT LTD	INDIA	Rev.4: Name Updation
1.84.5	FIL SEP EQUIPMENTS PVT LTD	INDIA	Rev.15: Name Updation
1.84.6	FILTRATION ENGINEERS (I) PVT LTD	INDIA	
1.84.7	FLASH POINT EQUIPMENTS PVT. LTD.	INDIA	
1.84.8	GAS PROCESSING EQUIPMENT PVT. LTD	INDIA	
1.84.9	GEOFLUID PROCESSORS PVT LTD	INDIA	
1.84.10	GRAND PRIX ENGINEERING PVT LTD.	INDIA	
1.84.11	GUJARAT OTOFILT	INDIA	
1.84.12	INDCON PROJECTS AND EQUIPMENT LTD	INDIA	Rev.12: Name Change
1.84.13	MULTITEX FILTRATION ENGINEERS LTD	INDIA	
1.84.14	NIRMAL INDUSTRIAL CONTROLS PRIVATE LIMITED	INDIA	Rev.12: Name Updation
1.84.15	PALL INDIA PVT LTD	INDIA	
1.84.16	PARKER HANFIN INDIA PVT LTD	INDIA	Rev.4: Name Updation
1.84.17	PETROMAR ENGINEERED SOLUTIONS PRIVATE LIMITED	INDIA	Rev.15: Name Updation
1.84.18	FLOW P&E INDIA PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.84.19	ULTRAFILTER (INDIA) PVT LTD	INDIA	
1.84.20	EPE PROCESS FILTERS & ACCUMULATORS PRIVATE LTD	INDIA	Rev.15: Name Updation
1.84.21	HYDAC INDIA PVT. LTD.	INDIA	
1.84.22	FILTER CONCEPT PRIVATE LIMITED		
1.85	FILTER - PRESSURE		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
1.86	FURNACE (Deleted)		Rev.2: Deleted
1.87	FLARE/FLARE STACK COMPONENTS		
1.87.1	ADOR WELDING LTD.	INDIA	
1.87.2	ADVANI-OERLIKON LTD (ADOR SAMIA LTD)	INDIA	
1.87.3	AIR OIL FLAREGAS PVT LTD.	INDIA	
1.87.4	JOHN ZINK INDIA	INDIA	
1.88	MAIN COMBUSTN. CHAMBR PKG(SRU)-ENGINEERED		
A	INDIAN BIDDERS		
1.88.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
1.88.2	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
1.88.3	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.88.4	LARSEN & TOUBRO LTD	INDIA	
1.88.5	THERMAL SYSTEMS (HYDERABAD) PVT LTD	INDIA	
1.88.6	THERMAX BABCOCK & WILCOX ENERGY SOLUTIONS LIMITED	INDIA	Rev-15 : Name Updation
1.89	INCINERATOR PACKAGE FOR SRU		
1.89.1	JOHN ZINK INDIA	INDIA	
1.89.2	PARAMOUNT POLLUTION CONTROL LTD.	INDIA	
1.89.3	JOHN ZINK COMPANY LTD	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.90	FIRED HEATERS		
A	INDIAN BIDDERS		
1.90.1	LARSEN & TOUBRO LTD.	INDIA	
1.90.2	THERMAX BABCOCK & WILCOX ENERGY SOLUTIONS LIMITED	INDIA	Rev-15 : Name Updation
1.90.3	PETRON ENGINEERING & CONSTRUCTION LTD	INDIA	
1.90.4	BRIDGE & ROOF CO (INDIA) LTD.	INDIA	
1.90.5	MUKAND LTD.	INDIA	
1.90.6	ENGINEERING CONSTRUCTION CORP. LTD.	INDIA	
1.90.7	ESTEEM PROJECTS PVT. LTD.	INDIA	
1.90.8	TECHNICAS REUNIDAS	INDIA	
1.90.9	JNK HEATERS LTD	INDIA	
1.90.10	HEURTEY PETROCHEM	INDIA	
1.90.11	TECHNIP KT INDIA LTD	INDIA	
1.90.12	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	
1.91	COLUMN / DRUM (SITE FABRICATED)		
1.91.1	ISGEC India	INDIA	
1.91.2	VIJAY TANKS & VESSELS PVT LTD	INDIA	
1.92	HAIRPIN EXCHANGER		
A	INDIAN BIDDERS		
1.92.1	PATELS AIRTEMP (INDIA) LTD	INDIA	
1.92.2	PRECISION EQUIPMENTS (CHENNAI) PVT LTD	INDIA	
1.92.3	HRS PROCESS SYSTEMS LTD	INDIA	
1.92.4	KINAM ENGINEERING INDUSTRIES	INDIA	
1.92.5	INDUSTRIAL MANUFACTURERS	INDIA	
1.92.6	TEMA INDIA LIMITED	INDIA	
1.93	SILOS		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
1.94	LOW FIN HEAT EXCHANGER		
A	INDIAN BIDDERS		
1.94.1	THE ANUP ENGINEERING LIMITED	INDIA	
1.94.2	TECHNO PROCESS EQUIPMENT (INDIA) LIMITED	INDIA	
1.94.3	ISGEC (a unit of Saraswati Industrial syndicate Ltd.)	INDIA	
1.94.4	LARSEN & TOUBRO LTD.	INDIA	
1.94.5	GODREG & BOYCE MFG. CO	INDIA	
1.95	SOOT BLOWER		Rev. 5: New Category
A	INDIAN BIDDERS		
1.95.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	
1.95.2	TRUST WELL ENGINEERS INDIA PVT LTD	INDIA	
1.96	CASTINGS TUBE SHEET/TUBE SUPPORT		Rev. 5: New Category
A	INDIAN BIDDERS		

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.96.1	HASTALLOY INDIA LTD	INDIA	
1.96.2	KARTIK STEELS LTD	INDIA	
1.96.3	NI-CHROME ALLOY CASTINGS (P) LTD	INDIA	
1.96.4	NITIN CASTINGS (P) LTD.	INDIA	
1.97	DAMPERS & ISOLATORS		Rev. 5: New Category
A	INDIAN BIDDERS		
1.97.1	KAMAL ENCON INDUSTRIES LIMITED	INDIA	Rev-11 : Name Updation
1.97.2	BACHMANN INDUSTRIED (I) LTD	INDIA	
1.97.3	FOURESS ENGINEERING (INDIA) PRIVATE LIMITED	INDIA	Rev-12 : Name Updation
2	ROTARY EQUIPMENT		
2.1	PUMP-CENT.HOR(GPP)		
A	INDIAN BIDDERS		
2.1.1	BEACON WEIR LTD. INDIA	INDIA	Rev-16 : Name Deletion
2.1.2	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.1.3	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.1.4	ITT CORPORATION INDIA PVT LTD	INDIA	
2.1.5	KIRLOSKAR BROTHERS LTD	INDIA	
2.1.6	KIRLOSKAR EBARA PUMPS LTD	INDIA	
2.1.7	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.1.8	MATHER & PLATT PUMPS LTD.	INDIA	
2.1.9	RUHRPUMPEN INDIA PVT LTD.	INDIA	
2.1.10	SAM TURBO INDUSTRY PVT. LTD	INDIA	
2.1.11	SU MOTORS PVT LTD	INDIA	
2.1.12	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.1.13	WILO MATHER AND PLATT PUMPS PVT. LTD.	INDIA	
2.1.14	FLOWMORE LTD	INDIA	
2.1.15	JYOTI LTD	INDIA	
2.1.16	MICROFINISH PUMPS PVT. LTD.	INDIA	
2.2	PUMP-CENT.HOR(SPP)		
A	INDIAN BIDDERS		
2.2.1	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.2.2	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.2.3	ITT CORPORATION INDIA PVT LTD	INDIA	
2.2.4	KIRLOSKAR EBARA PUMPS LTD	INDIA	
2.2.5	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.2.6	RUHRPUMPEN INDIA PVT LTD	INDIA	
2.2.7	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.2.8	DMW CORPORATION INDIA PRIVATE LIMITED (Approved for Model Series: SMKP, DF/NDF; Max Rating: upto 800 KW)	INDIA	Rev.2: Addition
2.2.9	MICROFINISH PUMPS PVT. LTD.	INDIA	
2.3	PUMP-CENT.HOR(GWS)		
A	INDIAN BIDDERS		
2.3.1	BEACON WEIR LTD. INDIA	INDIA	Rev-16 : Name Deletion
2.3.2	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change


			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
2.3.3	FLOWMORE LIMITED	INDIA	
2.3.4	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.3.5	ITT CORPORATION INDIA PVT LTD	INDIA	
2.3.6	KIRLOSKAR BROTHERS LTD	INDIA	
2.3.7	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.3.8	RUHRPUMPEN INDIA PVT LTD.	INDIA	
2.3.9	SAM TURBO INDUSTRY PVT. LTD	INDIA	Rev. 12: Name Updation
2.3.10	SU MOTORS PVT LTD	INDIA	
2.3.11	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.3.12	WILO MATHER AND PLATT PUMPS PVT. LTD.	INDIA	
2.3.13	WPIL LTD	INDIA	
2.3.14	MICROFINISH PUMPS PVT. LTD.	INDIA	
2.4	PUMP-CENT.HOR(LCWS)		
A	INDIAN BIDDERS		
2.4.1	BEACON WEIR LTD. INDIA	INDIA	Rev-16 : Name Deletion
2.4.2	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.4.3	FLOWMORE LIMITED	INDIA	
2.4.4	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.4.5	ITT CORPORATION INDIA PVT LTD	INDIA	
2.4.6	KIRLOSKAR BROTHERS LTD	INDIA	
2.4.7	MATHER & PLATT PUMPS LTD.	INDIA	
2.4.8	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.4.9	RUHRPUMPEN INDIA PVT LTD.	INDIA	
2.4.10	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.4.11	WILO MATHER AND PLATT PUMPS PVT. LTD.	INDIA	
2.4.12	WPIL Ltd	INDIA	
2.4.13	FLOWMORE LTD	INDIA	
2.4.14	ENSIVAL MORET BELGIUM SA	INDIA	Rev.9: Country Change
2.4.15	JYOTI LTD	INDIA	
2.4.16	MICROFINISH PUMPS PVT. LTD.	INDIA	
2.5	PUMP-CENT.HOR.(MOLTEN SULPHUR)		
A	INDIAN BIDDERS		
2.5.1	ITT CORPORATION INDIA PVT LTD	INDIA	Rev.4: Name Updation
2.5.2	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.6	PUMP-CENT.VERT(GPP)		
A	INDIAN BIDDERS		
2.6.1	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.6.2	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.6.3	ITT CORPORATION INDIA PVT LTD	INDIA	
2.6.4	KIRLOSKAR BROTHERS LTD	INDIA	
2.6.5	KIRLOSKAR EBARA PUMPS LTD	INDIA	
2.6.6	KISHOR PUMPS PVT LTD.	INDIA	
2.6.7	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.6.8	RUHRPUMPEN INDIA PVT LTD	INDIA	
2.6.9	SAM TURBO INDUSTRY PVT. LTD	INDIA	Rev. 12: Name Updation


			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
2.6.10	SU MOTORS PVT LTD	INDIA	
2.6.11	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.6.12	WILO MATHER AND PLATT PUMPS PVT. LTD.	INDIA	
2.6.13	WPIL Ltd	INDIA	
2.6.14	FLOWMORE LTD	INDIA	
2.6.15	DENCIL PUMPS & SYSTEMS PVT. LTD.	INDIA	
2.7	PUMP-CENT.VERT. BARREL TYPE(SPP)		
A	INDIAN BIDDERS		
2.7.1	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.7.2	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.7.3	ITT CORPORATION INDIA PVT LTD	INDIA	
2.7.4	KIRLOSKAR EBARA PUMPS LTD	INDIA	
2.7.5	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.7.6	LAWRENCE PUMPS ASIA PTE LTD.	INDIA	
2.7.7	RUHRPUMPEN INDIA PVT LTD	INDIA	
2.7.8	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.8	PUMP-CENT.VERT.(GWS)		
A	INDIAN BIDDERS		
2.8.1	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.8.2	FLOWMORE LIMITED	INDIA	
2.8.3	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.8.4	ITT CORPORATION INDIA PVT LTD	INDIA	
2.8.5	KIRLOSKAR BROTHERS LTD	INDIA	
2.8.6	KISHOR PUMPS PVT LTD.	INDIA	
2.8.7	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.8.8	SAM TURBO INDUSTRY PVT. LTD	INDIA	Rev. 12: Name Updation
2.8.9	SU MOTORS PVT LTD	INDIA	
2.8.10	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.8.11	WILO MATHER AND PLATT PUMPS PVT. LTD.	INDIA	
2.8.12	WPIL LTD	INDIA	
2.8.13	FLOWMORE LTD	INDIA	
2.8.14	RUHRPUMPEN INDIA PVT LTD	INDIA	
2.8.15	JYOTI LTD	INDIA	
2.8.16	DENCIL PUMPS & SYSTEMS PVT. LTD.	INDIA	
2.9	PUMP-CENT.VERT(LCWS)		
A	INDIAN BIDDERS		
2.9.1	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.9.2	FLOWMORE LIMITED	INDIA	
2.9.3	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.9.4	ITT CORPORATION INDIA PVT LTD	INDIA	
2.9.5	KIRLOSKAR BROTHERS LTD	INDIA	
2.9.6	KISHOR PUMPS PVT. LTD.	INDIA	
2.9.7	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.9.8	SAM TURBO INDUSTRY PVT. LTD.	INDIA	
2.9.9	WILO MATHER AND PLATT PUMPS PVT. LTD.	INDIA	

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
2.9.10	WPIL LTD	INDIA	
2.9.11	FLOWMORE LTD	INDIA	
2.9.12	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.9.13	RUHRPUMPEN INDIA PVT LTD	INDIA	
2.9.14	JYOTI LTD	INDIA	
2.9.15	MICROFINISH PUMPS PVT. LTD.	INDIA	
2.10	PUMP-CENT.VERT.(MOLTEN SULPHUR)		
A	INDIAN BIDDERS		
2.10.1	ITT CORPORATION INDIA PVT LTD	INDIA	Rev.4: Name Updation
2.10.2	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.11	PUMP-CENT. (BFW)		
A	INDIAN BIDDERS		
2.11.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
2.11.2	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.11.3	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.11.4	ITT CORPORATION INDIA PVT LTD	INDIA	
2.11.5	KIRLOSKAR EBARA PUMPS LTD	INDIA	
2.11.6	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.11.7	RUHRPUMPEN INDIA PVT LTD	INDIA	
2.11.8	STERLING FLUID SYSTEMS LTD	INDIA	
2.11.9	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.11.10	CNP PUMPS INDIA PVT LTD	INDIA	
2.12	PUMP-CENT.SU.M(CRYO)		
A	INDIAN BIDDERS		
	No Indian Bidders Available		
2.13	PUMP-CENT.H/V(FW)		
A	INDIAN BIDDERS		
2.13.1	FLOWMORE LIMITED	INDIA	
2.13.2	KIRLOSKAR BROTHERS LTD	INDIA	
2.13.3	WILO MATHER AND PLATT PUMPS PVT. LTD.	INDIA	
2.13.4	WPIL LTD	INDIA	
2.13.5	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	
2.13.6	ITT CORPORATION INDIA PVT LTD	INDIA	
2.13.7	KSB LIMITED	INDIA	
2.14	PUMP-CENT.HOR.MULTI STAGE(SPP)		
A	INDIAN BIDDERS		
2.14.1	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.14.2	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.14.3	ITT CORPORATION INDIA PVT LTD	INDIA	
2.14.4	KIRLOSKAR EBARA PUMPS LTD	INDIA	
2.14.5	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.14.6	RUHRPUMPEN INDIA PVT LTD	INDIA	
2.14.7	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
2.15	PUMP-CENT. (LOW CAPACITY HIGH HEAD)		
A	INDIAN BIDDERS		
2.15.1	FLOWERVE INDIA CONTROLS PVT LTD.	INDIA	
2.16	PUMP-ROTARY.SCREW		
A	INDIAN BIDDERS		
2.16.1	ALEKTON ENGG INDUSTRIES PVT. LTD	INDIA	
2.16.2	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.16.3	NETZSCH TECHNOLOGIES INDIA PVT.LTD	INDIA	
2.16.4	ROTO PUMPS LTD	INDIA	
2.16.5	SEPEX GMBH	INDIA	Rev-9 Country Change
2.16.6	ALLWEILER INDIA PVT LTD. (A CIRCOR BUSINESS UNIT)	INDIA	
2.16.7	TUSHACO PUMPS PVT. LTD	INDIA	
2.16.8	UT PUMPS & SYSTEMS PVT. LTD. (BORNEMAN)	INDIA	
2.16.9	ITT CORPORATION INDIA PVT LTD	INDIA	
2.16.10	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.16.11	PLENTY MIRRLESS PUMPS(SPX FLOW)	INDIA	
2.16.12	MADAV FLUID SOLUTIONS-(VIKING)	INDIA	
2.17	PUMP-ROTARY.GEAR		
A	INDIAN BIDDERS		
2.17.1	DEL PD PUMPS & GEARS PVT. LTD.	INDIA	
2.17.2	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.17.3	TUSHACO PUMPS PVT. LTD	INDIA	
2.17.4	ITT CORPORATION INDIA PVT LTD	INDIA	
2.17.5	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.17.6	ALLWEILER INDIA PVT LTD	INDIA	
2.17.7	NETZSCH TECHNOLOG IES INDIA PVT.LTD.	INDIA	
2.17.8	MADAV FLUID SOLUTIONS-(VIKING)	INDIA	
2.17.9	PLENTY MIRRLESS PUMPS(SPX FLOW)	INDIA	
2.18	PUMP-ROTARY.SL.VANE		
A	INDIAN BIDDERS		
2.18.1	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.18.2	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.18.3	ITT CORPORATION INDIA PVT LTD	INDIA	
2.19	PUMP-ROT.SCR.ARC(ES)		
A	INDIAN BIDDERS		
2.19.1	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.19.2	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.19.3	ITT CORPORATION INDIA PVT LTD	INDIA	
2.20	PUMP-ROTARY(LOBE)		
2.20.1	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.20.2	ITT CORPORATION INDIA PVT LTD	INDIA	Rev.4: Name Updation
2.20.3	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.20.4	VOGELSANG INDIA PVT LTD	INDIA	

 IndianOil			
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M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
2.21	PUMP-SLURRY.RECIPRO		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
2.22	PUMP-SLURRY.CENT.H/V		
A	INDIAN BIDDERS		
2.22.1	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.22.2	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.22.3	FLOWERVE(THOMPSONS KELLY&LEWIS PTY LTD)	INDIA	
2.22.4	ITT CORPORATION INDIA PVT LTD	INDIA	
2.22.5	KIRLOSKAR BROTHERS LTD	INDIA	
2.22.6	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.22.7	SAM TURBO INDUSTRY PVT. LTD	INDIA	Rev. 12: Name Updation
2.22.8	SULZER PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.23	PUMP-RECIPRO (API 674)		
A	INDIAN BIDDERS		
2.23.1	DENCIL PUMPS AND SYSTEMS PVT LTD	INDIA	
2.23.2	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.23.3	GOMA ENGINEERING PVT LTD	INDIA	
2.23.4	HIRO NISHA SYSTEMS PVT. LTD.	INDIA	
2.23.5	ITT CORPORATION INDIA PVT LTD	INDIA	
2.23.6	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.23.7	SWELORE ENGG. PVT. LTD.	INDIA	
2.23.8	V.K. PUMP INDUSTRIES PVT. LTD.	INDIA	Rev-15 : Name Updation
2.23.9	POSITIVE METERING PUMPS (INDIA) PRIVATE LIMITED	INDIA	Rev-15 : Name Updation
2.23.10	ACCUDYNE INDUSTRIES INDIA PVT. LTD.	INDIA	
2.24	PUMP-A.F.PROPELLER		
A	INDIAN BIDDERS		
2.24.1	CLYDE PUMPS INDIA PRIVATE LIMITED	INDIA	Rev.3: Name Change
2.24.2	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	Rev. 5: Name Change
2.24.3	ITT CORPORATION INDIA PVT LTD	INDIA	
2.24.4	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.25	PUMP - AIR OPERATED DIAPHRAGM		
A	INDIAN BIDDERS		
2.25.1	HI-LIFE MANUFACTURING CO.	INDIA	
2.25.2	MONIBA ANAND ELECTRICALS PVT LTD	INDIA	
2.25.3	ITT CORPORATION INDIA PVT LTD	INDIA	
2.25.4	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.25.5	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.26	EJECTOR		
A	INDIAN BIDDERS		
2.26.1	MAZDA LIMITED	INDIA	
2.26.2	NEW FIELD INDUSTRIAL EQUIPMENT PVT LTD	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
2.26.3	CHEM PROCESS	INDIA	
2.27	COMP-RECIPRO(SPP)		
A	INDIAN BIDDERS		
2.27.1	BURCKHARDT COMPRESSION (INDIA) PVT.LTD.	INDIA	
2.27.2	SIEMENS (FORMER DRESSER RAND INDIA PVT LTD)	INDIA	
2.27.3	GARDNER DENVER	INDIA	
2.27.4	HITACHI LTD. INTERNATIONAL	INDIA	
2.27.5	NEUMAN & ESSER ENGINEERING INDIA PVT LTD	INDIA	
2.27.6	ATLAS COPCO INDIA LIMITED	INDIA	Rev.14 : Name Updation
2.27.7	DRESSER RAND	INDIA	
2.27.8	HOWDEN	INDIA	
2.27.9	EMERSON COPELAND	INDIA	
2.28	COMP-RECIPRO(PIANS)		
A	INDIAN BIDDERS		
2.28.1	BURCKHARDT COMPRESSION (INDIA) PVT. LTD.	INDIA	
2.28.2	DRESSER RAND INDIA PVT LTD	INDIA	
2.28.3	SIEMENS (FORMER DRESSER RAND INDIA PVT LTD)	INDIA	
2.28.4	GARDNER DENVER	INDIA	
2.28.5	HITACHI LTD	INDIA	
2.28.6	INGERSOLL-RAND (INDIA) LTD.	INDIA	
2.28.7	KIRLOSKAR PNEUMATIC CO LTD	INDIA	
2.28.8	NEUMAN & ESSER ENGINEERING INDIA PVT LTD	INDIA	
2.28.9	ATLAS COPCO INDIA LIMITED	INDIA	Rev.14 : Name Updation
2.28.10	EMERSON COPELAND	INDIA	
2.29	COMP-RECIPRO(DIAPHRAGM)		
A	INDIAN BIDDERS		
2.29.1	NEUMAN & ESSER ENGINEERING INDIA PVT LTD	INDIA	
2.29.2	SUNDYNE	INDIA	
2.30	COMP-RECIPRO(LABYRINTH)		
A	INDIAN BIDDERS		
2.30.1	BURCKHARDT COMPRESSION AG	INDIA	
2.31	COMP. HIGH PRESSURE(PIANS)		
A	INDIAN BIDDERS		
2.31.1	NEUMAN & ESSER ENGINEERING (I) PVT LTD.	INDIA	
2.32	COMP-CENT.(SPP)		
A	INDIAN BIDDERS		
2.32.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
2.32.2	HITACHI LTD	INDIA	
2.32.3	MAN Energy Solutions India Private Limited	INDIA	Rev.14 : Name Updation
2.32.4	MITSUBISHI HEAVY INDUSTRIES LTD	INDIA	
2.32.5	SIEMENS (FORMER DRESSER RAND INDIA PVT LTD)	INDIA	
2.32.6	ATLAS COPCO INDIA LIMITED	INDIA	Rev.14 : Name Updation

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
2.33	COMP-ROT.LIQUID RING/VP(PS)		
A	INDIAN BIDDERS		
2.33.1	BUSCH GVT LTD (FORMER GRAHAM PRECISION PUMP)	INDIA	
2.33.2	EDWARDS LTD (PROCESS VACUUM SYSTEMS)	INDIA	
2.33.3	GARDNER DENVER NASH ENGINEERED PRODUCTS INDIA PVT LTD	INDIA	
2.33.4	JB SAWANT ENGG PVT LTD	INDIA	
2.33.5	PPI SYSTEM	INDIA	
2.33.6	SIEMENS (FORMER DRESSER RAND INDIA PVT LTD)	INDIA	
2.33.7	SIHI PUMPS (SHANGHAI) CO.,LTD	INDIA	
2.33.8	SWAM PNEUMATICS PVT. LTD.	INDIA	
2.33.9	UNOZAWA GUMI IRON WORKS LTD	INDIA	
2.33.10	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.34	COMP-ROT.LIQUID RING / VP(AS)		
A	INDIAN BIDDERS		
2.34.1	GARDNER DENVER NASH ENGINEERED PRODUCTS INDIA PVT LTD	INDIA	
2.34.2	BUSCH GVT LTD (FORM GRAHAM PRECISION PUMP	INDIA	
2.34.3	EDWARDS LTD (PROCESS VACUUM SYSTEMS)	INDIA	
2.34.4	JB SAWANT ENGG PVT LTD	INDIA	
2.34.5	PPI SYSTEM	INDIA	
2.34.6	SIHI PUMPS (SHANGHAI) CO.,LTD	INDIA	
2.34.7	SWAM PNEUMATICS PVT. LTD.	INDIA	
2.34.8	DRESSER RAND	INDIA	
2.34.9	PRECISION PNEUMATICS INDUSTRIES	INDIA	


			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
2.35	MECH.SEAL FOR PUMPS/AGITATORS		
A	INDIAN BIDDERS		
2.35.1	AESSEAL INDIA PVT.LTD.	INDIA	
2.35.2	CHHETRA SEALS INDIA PVT. LTD.	INDIA	
2.35.3	EAGLEBURGMANN INDIA PVT LTD	INDIA	
2.35.4	FLOWERVE SANMAR LTD	INDIA	
2.35.5	JOHN CRANE SEALING SYSTEMS INDIA PVT. LTD.	INDIA	
2.35.6	LEAK PROOF ENGG (I) PVT LTD	INDIA	
2.36	MECHANICAL SEALS (API 682 TYPE & DRY GAS SEAL)		
A	INDIAN BIDDERS		
2.36.1	AESSEAL INDIA PVT.LTD.	INDIA	
2.36.2	CHHETRA SEALS INDIA PVT. LTD.	INDIA	
2.36.3	EAGLEBURGMANN INDIA PVT LTD	INDIA	
2.36.4	FLOWERVE SANMAR LTD	INDIA	
2.36.5	JOHN CRANE SEALING SYSTEMS INDIA PVT. LTD.	INDIA	
2.36.6	LEAK PROOF ENGG (I) PVT LTD	INDIA	
2.37	COMP-ROT.SCREW(PS)		
A	INDIAN BIDDERS		
2.37.1	ATLAS COPCO INDIA LIMITED	INDIA	Rev.14 : Name Updation
2.37.2	HOWDEN COMPRESSORS	INDIA	Rev.14 : Name Updation
2.37.3	INGERSOLL RAND INDIA LIMITED	INDIA	Rev.14 : Name Updation
2.37.4	KIRLOSKAR PNEUMATIC CO LTD	INDIA	
2.37.5	MAN Energy Solutions India Private Limited	INDIA	Rev.14 : Name Updation
2.37.6	SIEMENS LIMITED	INDIA	Rev.14 : Name Updation
2.37.7	ELGI EQUIPMENT LIMITED	INDIA	
2.38	COMP-ROT.SCREW(PIAS)		
A	INDIAN BIDDERS		
2.38.1	ELGI EQUIPMENTS LTD.	INDIA	
2.38.2	HOWDEN SOLYVENT (INDIA) PVT. LTD. (C/O Howden Thomassen India Pvt Ltd)	INDIA	
2.38.3	INGERSOLL-RAND (INDIA) LTD.	INDIA	
2.38.4	KIRLOSKAR PNEUMATIC CO LTD- (PUNE)	INDIA	
2.38.5	MAN Energy Solutions India Private Limited	INDIA	Rev.14 : Name Updation
2.38.6	ATLAS COPCO INDIA LIMITED	INDIA	Rev.14 : Name Updation
2.39	COMP-EXPANDER(PRO)		
A	INDIAN BIDDERS		
	NO INDIAN BIDDERS		
2.40	COMP-EXPANDER(AIR)		
A	INDIAN BIDDERS		
	NO INDIAN BIDDERS		
2.41	TURBINE-STEAM(GP)		
A	INDIAN BIDDERS		
2.41.1	BELLISS INDIA LTD	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
2.41.2	HITACHI LTD.	INDIA	
2.41.3	MAN Energy Solutions India Private Limited	INDIA	Rev.14 : Name Updation
2.41.4	mitsubishi heavy industries ltd	INDIA	
2.41.5	SIEMENS (FORMER DRESSER RAND INDIA PVT LTD)	INDIA	
2.41.6	WESTINGHOUSE ELECTRIC CORPORATION	INDIA	
2.41.7	TRIVENI TURBINE LIMITED	INDIA	Rev.2: Addition
2.41.8	KIRLOSKAR EBARA PUMPS LTD.	INDIA	
2.42	TURBINE-STEAM(SP)		
2.42.1	ABB LTD	INDIA	
2.42.2	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
2.42.3	GEC ALSTHOM TURBINE GENERATORS	INDIA	
2.42.4	HITACHI LTD.	INDIA	
2.42.5	MAN Energy Solutions India Private Limited	INDIA	Rev.14 : Name Updation
2.42.6	mitsubishi heavy industries ltd	INDIA	
2.42.7	SIEMENS (FORMER DRESSER RAND INDIA PVT LTD)	INDIA	
2.42.8	TRIVENI TURBINE LIMITED	INDIA	Rev.2: Addition
2.42.9	WESTINGHOUSE ELECTRIC CORPORATION	INDIA	
2.42.10	KIRLOSKAR EBARA PUMPS LTD.	INDIA	
2.43	TURBINE-GAS		
A	INDIAN BIDDERS		
2.43.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
2.43.2	MAN Energy Solutions India Private Limited	INDIA	Rev.14 : Name Updation
2.43.3	mitsubishi heavy industries ltd	INDIA	
2.43.4	SIEMENS INDUSTRIAL TURBO MACHINERY LTD.	INDIA	
2.43.5	WESTINGHOUSE ELECTRIC CORPORATION	INDIA	
2.44	FAN-ID/FD		
A	INDIAN BIDDERS		
2.44.1	ABB ALVI	INDIA	
2.44.2	BOLDROCCHI INDIA PRIVATE LIMITED	INDIA	Rev.11 : Name Updation
2.44.3	AIR CONTROL & CHEMICAL ENGG.CO.LTD.	INDIA	
2.44.4	ANDREW YULE & CO LTD-KOLKATA	INDIA	
2.44.5	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
2.44.6	CBI Group	INDIA	
2.44.7	EBARA CORPORATION	INDIA	
2.44.8	FLAKT (INDIA) LTD (UPTO 130 kW CHENNAI)	INDIA	
2.44.9	HOWDEN SOLYVENT (INDIA) PVT. LTD.	INDIA	
2.44.10	mitsubishi heavy industries ltd	INDIA	
2.44.11	REITZ INDIA LTD	INDIA	
2.44.12	SOLYVENT FLAKT (INDIA) PVT. LIMITED	INDIA	
2.44.13	THERMAX LTD	INDIA	
2.44.14	TLT ENGINEERING INDIA PVT LTD	INDIA	
2.44.15	HOWDEN PROCESS COMPESSORS	INDIA	
2.44.16	TUTHILL	INDIA	
2.45	FAN-AXIAL FLOW		

 IndianOil			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
A	INDIAN BIDDERS		
2.45.1	MARATHON ELECTRIC MOTOR I LTD-	INDIA	
2.45.2	PATELS AIRFLOW LTD.	INDIA	
2.46	BLOWER-TURBO CENTRIFUGAL		
A	INDIAN BIDDERS		
2.46.1	AIR CONTROL & CHEMICAL ENGG.CO.LTD.	INDIA	
2.46.2	BATLIBOI ENVIRONMENTAL ENGG.LIMITED	INDIA	
2.46.3	BOLDROCCHI INDIA PRIVATE LIMITED	INDIA	
2.46.4	HITACHI LTD.	INDIA	
2.46.5	HOWDEN SOLYVENT (INDIA) PVT. LTD.	INDIA	
2.46.6	MAN Energy Solutions India Private Limited	INDIA	Rev.14 : Name Updation
2.46.7	MARATHON ELECTRIC MOTOR I LTD-	INDIA	
2.46.8	MITSUBISHI HEAVY INDUSTRIES LTD	INDIA	
2.46.9	PATELS AIRFLOW LTD.	INDIA	
2.46.10	SOLYVENT FLAKT (INDIA) PVT. LTD.	INDIA	
2.46.11	HOWDEN PROCESS COMPESSORS	INDIA	
2.46.12	SIEMENS LIMITED	INDIA	Rev.14 : Name Updation
2.46.13	TUTHILL	INDIA	
2.46.14	TMVT INDUSTRIES PVT. LTD.	INDIA	
2.46.15	PPI SYSTEM	INDIA	
2.47	POSITIVE DISPLACEMENT PUMPS RECIPROCATING - (CONTROLLED VOLUME)		
A	INDIAN BIDDERS		
2.47.1	ACCUDYNE INDUSTRIES INDIA PVT. LTD.	INDIA	
2.47.2	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.47.3	ITT CORPORATION INDIA PVT LTD	INDIA	
2.47.4	KSB LIMITED	INDIA	Rev-12 : Name Updation
2.47.5	POSITIVE METERING PUMPS (INDIA) PRIVATE LIMITED	INDIA	Rev-15 : Name Updation
2.47.6	SPX FLOW TECHNOLOGIES PVT. LTD.	INDIA	
2.47.7	SWELORE ENGG (P) LTD.	INDIA	
2.47.8	V.K.PUMPS INDUSTRIES	INDIA	
2.47.9	MILTON ROY INDIA PVT LTD	INDIA	Rev-15 : Bidder Deletion
2.47.10	SHAPOTOOLS	INDIA	
2.48	AGITATOR		
A	INDIAN BIDDERS		
2.48.1	A J SERVICES	INDIA	
2.48.2	CEECONS INDIA	INDIA	
2.48.3	GMM PFAUDLER LTD	INDIA	
2.48.4	HITACHI LTD.	INDIA	
2.48.5	METSO MINERALS CANADA INC.	INDIA	
2.48.6	MIXRITE CORPORATION	INDIA	
2.48.7	MIXRITE MIXING SYSTEMS	INDIA	
2.48.8	RATHI MIXERS PVT LTD	INDIA	
2.48.9	REMI PROCESS PLANT & MACHINERY LTD	INDIA	
2.48.10	SHAPOTOOLS INDIA	INDIA	
2.48.11	STANDARD ENGINEERS	INDIA	

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Sr.No	VENDOR NAME	COUNTRY	REMARK
2.48.12	SUDARSHAN CHEMICAL INDUSTRIES LTD (FORMERLY DIV. KNOWN AS RATHI VESSELS & SYSTEMS PVT LTD.) INDIA	INDIA	
2.48.13	SPX PROCESS EQUIPMENT LTD	INDIA	
2.49	Centrifugal Pumps - Sealless General Service		
A	INDIAN BIDDERS		
2.49.1	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.50	Special Purpose Gear Unit		
A	INDIAN BIDDERS		
2.50.1	TRIVENI	INDIA	
2.50.6	TRIVENI	INDIA	
2.51	ONE WAY CLUTCH		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
2.52	FLEXIBLE METALLIC COUPLING		
A	INDIAN BIDDERS		
2.52.1	EUROFLEX (NON API 617)	INDIA	
2.52.2	RATHI (NON API 617)	INDIA	
2.52.3	UNIQUE (NON API 617)	INDIA	
2.52.4	JOHNCRANE	INDIA	
2.53	Centrifugal Pumps - Non Metallic / Lined		
A	INDIAN BIDDERS		
2.53.1	FLOWERVE INDIA CONTROLS PVT LTD	INDIA	
2.53.2	ITT CORPORATION INDIA PVT LTD	INDIA	
2.53.3	AMBICA	INDIA	
2.53.4	Bhagwati Engineering Works	INDIA	
2.53.5	Process Pumps (I) Pvt.Ltd.	INDIA	
2.53.6	Leak-Proof Pumps (I) Pvt.Ltd.	INDIA	
2.54	VACUUM PUMPS		
A	INDIAN BIDDERS		
2.54.1	PPI PUMPS PVT. LTD.	INDIA	
2.54.2	VINDI VAK PUMP PVT. LTD.	INDIA	
2.54.3	JOYAM ENGINEERS & CONSULTANTS PVT. LTD.	INDIA	
2.54.4	INDO-AIR COMPRESSORS PVT. LTD.	INDIA	
2.54.5	CORE ENERGY SYSTEMS PVT. LTD.	INDIA	
2.54.9	GARDNER DENVER ENGINEERING PRODUCTS INDIA PVT. LTD.	INDIA	
2.55	PUMP-CRITICAL TEMPERATURE COLD SERVICE		
3	FIRE FIGHTING EQUIPMENT		
3.1	FIRE EXTINGUISHERS (PORTABLE)		
A	INDIAN BIDDERS		
3.1.1	ASCO STRUMECH PVT LTD	INDIA	


			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
3.1.2	BHARAT ENGG. WORKS	INDIA	
3.1.3	BRIJBASI HI-TECH UDYOG	INDIA	
3.1.4	FIRE SAFETY DEVICES PVT. LIMITED	INDIA	
3.1.5	GUNNEBO INDIA LIMITED	INDIA	
3.1.6	INTEGRATED FIRE PROTECTION PVT. LTD.	INDIA	Rev. 10 : Holiday listing upto 16.06.2022
3.1.7	INTIME FIRE APPLIANCES PVT LTD	INDIA	
3.1.8	KANADIA FYR FYTER PVT. LTD.	INDIA	
3.1.9	KIDDE INDIA LTD.	INDIA	
3.1.10	NEWAGE INDUSTRIES	INDIA	
3.1.11	NITIN FIRE PROTECTION INDUSTRIES LTD	INDIA	
3.1.12	SAFEX FIRE SERVICES LTD.	INDIA	
3.1.13	SUPREMEX EQUIPMENTS	INDIA	
3.1.14	UNITED FIRE EQUIPMENTS PVT. LTD.	INDIA	
3.1.15	VIMAL FIRE CONTROLS PVT LTD	INDIA	
3.1.16	ZENITH FIRE SERVICES (INDIA) PVT. LTD.	INDIA	
3.1.17	MINIMAX	INDIA	
3.2	SAFETY SHOWER & EYE WASHER		
A	INDIAN BIDDERS		
3.2.1	CREATIVE ENGINEERS	INDIA	
3.2.2	PRADEEP SAFETY PVT LTD.	INDIA	
3.2.3	FRANCIS LESLIE & CO.	INDIA	
3.2.4	STAR ENGINEERS	INDIA	
3.2.5	TYCO FIRE & INTEGRATED SOLUTIONS	INDIA	
3.2.6	UNICARE EMERGENCY EQPT	INDIA	
3.3	CLEAN AGENT SYSTEM		
A	INDIAN BIDDERS		
3.3.1	CHETAN CORPORATION	INDIA	
3.3.2	MX SYSTEMS INTERNATIONAL PVT. LTD.	INDIA	
3.3.3	NEW FIRE ENGINEERS (P) LTD	INDIA	
3.3.4	NITIN FIRE PROTECTION INDUSTRIES LTD	INDIA	
3.3.5	SIEMENS LIMITED	INDIA	
3.3.6	TYCO FIRE & SECURITY INDIA PVT. LTD	INDIA	
3.3.7	NOHMI BOSAI (INDIA) PRIVATE LIMITED	INDIA	Rev. 5: Name Change
3.3.8	CHETAN ENGINEERS	INDIA	
3.3.9	MINIMAX	INDIA	
3.3.10	VIMAL FIRE CONTROLS PVT LTD.	INDIA	
3.3.11	STERLING FIRE FIGHTING SERVICES PVT LTD.	INDIA	
3.3.12	WILSON FIRE FIGHTING EQUIPMENTS	INDIA	
3.4	DELUGE VALVE AND HEAT DETECTORS		
A	INDIAN BIDDERS		
3.4.1	DE'S TECHNICO LIMITED	INDIA	Rev.7: Name Change
3.4.2	FIRETECH EQUIPMENT & SYSTEMS PVT. LTD.	INDIA	Rev.7: Name Change
3.4.3	FLOW-TEK VALVES AND CONTROLS INC	INDIA	Rev.7: Name Change
3.4.4	HD FIRE PROTECT PVT. LTD.	INDIA	Rev.7: Name Change

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
3.4.5	UTC FIRE AND SECURITY INDIA	INDIA	
3.4.6	TYCO FIRE AND SECURITY INDIA PVT. LTD	INDIA	Rev.7: Name Change
3.4.7	MINIMAX Gmbh & Co. KG	INDIA	Rev.7: Name Change
3.5	HOSE DELIVERY		
A	INDIAN BIDDERS		
3.5.1	CHHATARIYA FIRETECH INDUSTRIES	INDIA	
3.5.2	DEWAS HYDROQUIP PVT LTD	INDIA	
3.5.3	HELIFLEX HYDRAULICS & ENGG.CO.	INDIA	
3.5.4	INDUSTRIAL COMMERTIAL CORPORATION	INDIA	
3.5.5	NEWAGE FIRE PROTECTION INDUSTRIES P LTD	INDIA	
3.5.6	NEWAGE FIREFIGHTING CO, LTD.	INDIA	
3.5.7	NITIN FIRE PROTECTION INDUSTRIES LTD	INDIA	
3.5.8	SUKAN EQUIPMENTS PVT LTD	INDIA	
3.5.9	CHHATARIYA RUBBER & CHEMICAL INDUSTRIES	INDIA	
3.6	FIRE HOSE ACCESSORIES		
A	INDIAN BIDDERS		
3.6.1	ASCO STRUMECH PVT.LTD.	INDIA	
3.6.2	BRIJBASI HI-TECH UDYOG	INDIA	
3.6.3	GUNNEBO INDIA LIMITED	INDIA	
3.6.4	KIDDE INDIA LTD.	INDIA	
3.6.5	NEWAGE FIRE PROTECTION INDUSTRIES P LTD	INDIA	
3.6.6	NEWAGE INDUSTRIES	INDIA	
3.6.7	SHAH BHOGILAL JETHALAL & BROTHERS	INDIA	
3.6.8	SUKAN EQUIPMENTS PVT LTD	INDIA	
3.6.9	SUPREMEX EQUIPMENTS	INDIA	
3.6.10	UNITED FIRE EQUIPMENTS PVT. LTD.	INDIA	
3.6.11	VIMAL FIRE CONTROLS PVT LTD	INDIA	
3.7	FOAM MAKER		
A	INDIAN BIDDERS		
3.7.1	BRIJBASI HI-TECH UDYOG	INDIA	
3.7.2	FIRETECH EQUIPMENTS & SYSTEM PVT. LTD.	INDIA	
3.7.3	HD FIREPROTECT PVT. LTD.	INDIA	
3.7.4	NEWAGE INDUSTRIES	INDIA	
3.8	VAPOUR SEAL CHAMBER		
A	INDIAN BIDDERS		
3.8.1	BRIJBASI HI-TECH UDYOG	INDIA	
3.8.2	HD FIREPROTECT PVT. LTD.	INDIA	
3.8.3	NEWAGE FIREFIGHTING CO, LTD.	INDIA	
3.9	BRANCH PIPES		
A	INDIAN BIDDERS		
3.9.1	ASCO STRUMECH PVT LTD	INDIA	
3.9.2	BRIJBASI HI-TECH UDYOG	INDIA	
3.9.3	GUNNEBO INDIA LIMITED	INDIA	

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
3.9.4	NEWAGE FIREFIGHTING CO.LTD.	INDIA	
3.9.5	NITIN FIRE PROTECTION INDUSTRIES LTD	INDIA	
3.9.6	SHAH BHOGILAL JETHALAL & BROTHERS	INDIA	
3.9.7	SUKAN EQUIPMENTS PVT LTD	INDIA	
3.9.8	SUPREMEX EQUIPMENTS	INDIA	
3.9.9	UNITED FIRE EQUIPMENTS PVT. LTD.	INDIA	
3.9.10	VIMAL FIRE CONTROLS PVT LTD	INDIA	
3.9.11	ZENITH FIRE SERVICES (INDIA) PVT. LTD.	INDIA	
3.10	INLINE INDUCTORS		
A	INDIAN BIDDERS		
3.10.1	BRIJBASI HI-TECH UDYOG	INDIA	
3.10.2	FIRETECH EQUIPMENTS & SYSTEM PVT. LTD.	INDIA	
<u>3.10.3</u>	<u>INTEGRATED FIRE PROTECTION PVT. LTD</u>	<u>INDIA</u>	Rev. 10 : Holiday listing upto 16.06.2022
3.10.4	NEWAGE FIREFIGHTING CO.LTD.	INDIA	
3.11	WATER SPRINKLER		
A	INDIAN BIDDERS		
3.11.1	HD FIREPROTECT PVT. LTD.	INDIA	
3.11.2	MX SYSTEMS INTERNATIONAL PVT. LTD.	INDIA	
3.11.3	NITIN FIRE PROTECTION INDUSTRIES LTD	INDIA	
3.11.4	TYCO FIRE & SECURITY INDIA PVT. LTD	INDIA	
3.11.5	MINIMAX	INDIA	
3.12	FIXED FOAM SYSTEM (FOAM PACKAGE)		
A	INDIAN BIDDERS		
3.12.1	BRIJBASI HI-TECH UDYOG	INDIA	
3.12.2	HD FIREPROTECT PVT. LTD.	INDIA	
3.12.3	MX SYSTEMS INTERNATIONAL PVT. LTD.	INDIA	
3.13	HYDRANT/LANDING VALVE		
A	INDIAN BIDDERS		
3.13.1	ASCO STRUMECH PVT.LTD.	INDIA	
3.13.2	BRIJBASI HI-TECH UDYOG	INDIA	
3.13.3	GUNNEBO INDIA LIMITED	INDIA	
3.13.4	NEWAGE FIREFIGHTING CO.LTD.	INDIA	
3.13.5	NITIN FIRE PROTECTION INDUSTRIES LTD	INDIA	
3.13.6	SHAH BHOGILAL JETHALAL & BROTHERS	INDIA	
3.13.7	SUKAN EQUIPMENTS PVT LTD	INDIA	
3.13.8	UNITED FIRE EQUIPMENTS PVT. LTD.	INDIA	
3.13.9	VENUS PUMP & ENGINEERING WORKS	INDIA	
3.13.10	KIDDE INDIA LTD	INDIA	
3.13.11	TYCO FIRE & INTEGRATED FIRE SOLUTION	INDIA	
3.13.12	ZENITH FIRE SERVICES	INDIA	
3.14	SPRAY NOZZLE- FIRE FIGHTING		
A	INDIAN BIDDERS		

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
3.14.1	FIRETECH EQUIPMENTS & SYSTEM PVT. LTD.	INDIA	
3.14.2	HD FIREPROTECT PVT. LTD.	INDIA	
3.14.3	TYCO FIRE & INTEGRATED FIRE SOLUTION	INDIA	
3.14.4	UTC FIRE AND SECURITY INDIA LTD	INDIA	
3.15	AUTO DCP EXTINGUISHING SYSTEM		
A	INDIAN BIDDERS		
3.15.1	MX SYSTEMS INTERNATIONAL PVT. LTD.	INDIA	
3.15.2	VIJAY FIRE VEHICLES AND PUMPS LTD	INDIA	
3.16	HV/MV SPRAY SYSTEMS		
A	INDIAN BIDDERS		
3.16.1	AGNICE FIRE PROTECTION. PVT LTD.	INDIA	
3.16.2	DE'S TECHNICO PVT LTD.	INDIA	
3.16.3	HD FIREPROTECT PVT. LTD.	INDIA	
3.16.4	HONEYWELL AUTOMATION INDIA LTD	INDIA	
3.16.5	KIDDE INDIA LTD.	INDIA	
3.16.6	Wilo MATHER & PLATT PUMPS LTD.	INDIA	
3.16.7	MX SYSTEMS INTERNATIONAL PVT. LTD.	INDIA	
3.16.8	NEW FIRE ENGINEERS (P) LTD	INDIA	
3.16.9	TECHNO FIRE PROTECTION SERVICES PVT LTD	INDIA	
3.16.10	THERMOSYSTEMS PVT LTD	INDIA	
3.16.11	MEHTA AND ASSO FIRE PROTECTION SYSTEM	INDIA	
3.16.12	TYCO ENGINEERING AND CONSTURCTION PVT LTD	INDIA	
3.17	RIM SEAL FIRE PROTECTION SYSTEM		
A	INDIAN BIDDERS		
3.17.1	HSE ENGINEERS PVT. LTD.	INDIA	
3.17.2	FITECH EQUIPMENTS (INDIA) PRIVATE LIMITED	INDIA	Rev.6: New Addition
3.17.3	VIMAL FIRE CONTROLS PVT LTD	INDIA	
3.18	WATER MONITOR		
A	INDIAN BIDDERS		
3.18.1	AKRON BRASS COMPANY	INDIA	
3.18.2	BRIJBASI HI-TECH UDYOG	INDIA	
3.18.3	DE'S TECHNICO PVT LTD.	INDIA	
3.18.4	FIRETECH EQUIPMENTS & SYSTEM PVT. LTD.	INDIA	
3.18.5	GUNNEBO INDIA LIMITED	INDIA	
3.18.6	HD FIREPROTECT PVT. LTD.	INDIA	
3.18.7	NEWAGE FIREFIGHTING CO.LTD.	INDIA	
3.18.8	NEWAGE INDUSTRIES	INDIA	
3.18.9	SHAH BHOGILAL JETHALAL & BROTHERS	INDIA	
3.18.10	SUPREMEX EQUIPMENTS	INDIA	
3.18.11	VIMAL FIRE CONTROLS PVT LTD	INDIA	
3.18.12	VISHAL FIRE PROTECTION EQUIPMENTS	INDIA	
3.18.13	ZENITH FIRE SERVICES (INDIA) PVT LTD.	INDIA	
3.18.14	MINIMAX	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
3.19	WATER CUM FOAM MONITOR		
A	INDIAN BIDDERS		
3.19.1	AKRON BRASS COMPANY	INDIA	
3.19.2	FIRETECH EQUIPMENTS & SYSTEM PVT. LTD.	INDIA	
3.19.3	HD FIREPROTECT PVT. LTD.	INDIA	
3.19.4	NEWAGE FIREFIGHTING CO.LTD.	INDIA	
3.19.5	SHAH BHOGILAL JETHALAL & BROTHERS	INDIA	
3.19.6	VIMAL FIRE CONTROLS PVT LTD	INDIA	
3.19.7	ANGUS FIRE ARMER LTD	INDIA	
3.19.8	TYCO FIRE AND INTEGRATED SOLUTIONS	INDIA	
3.19.9	VISHAL FIRE PROTECTION EQUIPMENTS	INDIA	
3.2	LONG RANGE MONITOR		
A	INDIAN BIDDERS		
3.20.1	AKRON BRASS COMPANY	INDIA	
3.20.2	HD FIREPROTECT PVT. LTD.	INDIA	
3.20.3	NEWAGE FIREFIGHTING CO.LTD.	INDIA	
3.20.4	NEWAGE INDUSTRIES	INDIA	
3.20.5	SHAH BHOGILAL JETHALAL & BROTHERS	INDIA	
3.20.6	VIMAL FIRE CONTROLS PVT LTD	INDIA	
3.21	REMOTE CONTROLLED MONITORS		
A	INDIAN BIDDERS		
3.21.1	AKRON BRASS COMPANY	INDIA	
3.21.2	HD FIRE PROTECT PRIVATE LTD	INDIA	
3.21.3	NEWAGE FIREFIGHTING CO.LTD.	INDIA	
3.21.4	NEWAGE INDUSTRIES	INDIA	
3.21.5	SHAH BHOGILAL JETHALAL & BROTHERS	INDIA	
3.21.6	VIMAL FIRE CONTROLS PVT LTD	INDIA	
4	PACKAGES , HVAC & MISCELLANEOUS		
4.1	DESALTER PACKAGE (COALESCER - ELECTROSTATIC)		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
4.2	VACUUM EJECTOR CONDENSER SYS(ENGINEERED)		
A	INDIAN BIDDERS		
4.2.1	GODREJ & BOYCE MFG. CO. LTD.	INDIA	
4.2.2	MAZDA LIMITED.	INDIA	
4.3	VACUUM EJECTOR CONDSR SYS(UNENGINEERED)		
A	INDIAN BIDDERS		
4.3.1	MAZDA LIMITED.	INDIA	
4.4	DOSING PACKAGE(SKID MOUNTED)		
A	INDIAN BIDDERS		
4.4.1	ACCUDYNE INDUSTRIES INDIA PVT. LTD.	INDIA	
4.4.2	DENCIL PUMPS AND SYSTEMS PVT. LTD.	INDIA	


 IndianOil			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
4.4.3	ENPRO INDUSTRIES PVT LTD	INDIA	
4.4.4	SWELORE ENGG. (P) LTD	INDIA	
4.4.5	V.K. PUMP INDUSTRIES PVT. LTD.	INDIA	Rev-15 : Name Updation
4.4.6	METAPOW ENGINEERS PVT. LTD.	INDIA	
4.4.7	METACHEM CORPORATION	INDIA	
4.4.8	MILTON ROY INDIA PVT LTD	INDIA	Rev-15 : Bidder Deletion
4.4.9	PSI ENGG SYSTEMS P.LTD.	INDIA	
4.4.10	RAVI INDUSTRIES	INDIA	
4.4.11	SHAPOTOOLS	INDIA	Rev.7: Name Change
4.4.12	POSITIVE METERING PUMPS (INDIA) PRIVATE LIMITED	INDIA	Rev-15 : Name Updation
4.5	PRU (Propylene Recovery Unit) DRYER		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
4.6	PNEUMATIC CONVEYING PACKAGE (FLUID START PIPE)		
A	INDIAN BIDDERS		
4.6.1	COPERION IDEAL PVT LTD	INDIA	
4.7	EXTRUDER / PELLETIZER PACKAGE		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
4.8	CATALYST, ADDITIVES UNLOADING PACKAGE		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
4.9	LOSS-IN WEIGHT FEEDER PACKAGE / SCREW CONVEYOR		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
4.10	ROTARY FEEDER		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
4.11	BAGGING PLANT		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
4.12	VACUUM CLEANING SYSTEMS		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
4.13	DRIER-AIR/GAS		
A	INDIAN BIDDERS		
4.13.1	CICB-CHEMICON PVT.LTD.	INDIA	
4.13.2	DELAIR INDIA PVT LTD	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
4.13.3	GAS PROCESSING EQUIPMENT PVT. LTD	INDIA	
4.13.4	INDCON PROJECTS AND EQUIPMENT LTD	INDIA	Rev.12: Name Change
4.13.5	LLOYDS STEELS INDUSTRIES LTD.	INDIA	
4.13.6	PURIFLAIR INDIA PVT LIMITED	INDIA	
4.13.7	SUMMITS HYGRONICS PVT.LTD	INDIA	
4.13.8	TRIDENT PNEUMATIC PVT LTD	INDIA	
4.13.9	ULTRAFILTER (INDIA) PVT. LTD	INDIA	
4.13.10	UTTAM VALUE STEELS LTD	INDIA	
4.13.11	CLEAN AIR	INDIA	
4.13.12	GASO ENERGY SYSTEMS INDIA PVT LTD	INDIA	
4.13.13	KILBURN ENGINEERING	INDIA	
4.13.14	PROCESS EQUIPMENT ENGINEERING	INDIA	
4.13.15	ADVANCED COMPAIR SYSTEM, INDIA	INDIA	
4.13.16	AIROX NIGEN EQUIPMENTS PVT LTD	INDIA	
4.14	FILTER BAG TYPE		
A	INDIAN BIDDERS		
4.14.1	BATLIBOI ENVIRONMENTAL ENGG.LIMITED	INDIA	
4.14.2	COPERION IDEAL PVT. LTD.	INDIA	
4.14.3	F.HARLEY & CO. PVT LTD.	INDIA	
4.14.4	THERMAX LIMITED	INDIA	
4.14.5	PALL INDIA PRIVATE LIMITED	INDIA	Rev.14: Name Updation
4.15	PLANT & INSTRUMENT AIR COMPRESSOR PACKAGE		
A	INDIAN BIDDERS		
4.15.1	KIRLOSKAR PNEUMATIC CO. LTD	INDIA	
4.15.2	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	
4.16	COOLING TOWER (Deleted)		Rev.2: Deleted
4.17	NITROGEN PLANT (CRYOGENIC)		
A	INDIAN BIDDERS		
4.17.1	AIR LIQUIDE GLOBAL E&C SOLUTIONS INDIA PRIVATE LIMITED	INDIA	
4.17.2	AIR LIQUIDE ENGINEERING INDIA PRIVATE LTD (ALEI)	INDIA	
4.17.3	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
4.17.4	CRYOGAS EQUIPMENT PRIVATE LIMITED	INDIA	
4.17.5	GARDNER DENVER ENGINEERED PRODUCTS INDIA PVT LTD	INDIA	
4.17.6	INOX AIR PRODUCTS LTD.	INDIA	
4.17.7	NIRMAL INDUSTRIAL CONTROLS PRIVATE LIMITED	INDIA	
4.17.8	LINDE	INDIA	
4.17.9	INOX INDIA PVT. LTD.	INDIA	
4.18	DM WATER & CONDENSATE POLISHING UNIT		
A	INDIAN BIDDERS		
4.18.1	AQUATECH SYSTEMS (ASIA) PVT. LTD	INDIA	
4.18.2	ION EXCHANGE (INDIA) LTD	INDIA	
4.18.3	VA TECH WABAG LTD	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
4.18.4	WIPRO WATER	INDIA	
4.18.5	DRIPLEX WATER ENGINEERING PRIVATE LIMITED	INDIA	Rev:8 Bidder Addition
4.19	EFFLUENT TREATMENT PACKAGE		
A	INDIAN BIDDERS		
4.19.1	BIOTECH SERVICES	INDIA	
4.19.2	CAMERON MANUFACTURING (INDIA) PVT.LIMITED (Group of Schlumberger Ltd)	INDIA	
4.19.3	DOSHION VEOLIA WATER SOLUTIONS PVT LTD	INDIA	
4.19.4	ECOTECH LABS	INDIA	
4.19.5	ENPRO ENVIROTECH AND ENGINEERS PVT LTD.	INDIA	
4.19.6	GEO MILLER & CO. PVT. LTD.	INDIA	
4.19.7	ION EXCHANGE (INDIA) LTD	INDIA	
4.19.8	ROCHEM SEPARATION SYSTEMS	INDIA	
4.19.9	VA TECH WABAG LTD	INDIA	
4.19.10	SUEZ WATER TECHNOLOGIES & SOLUTIONS INDIA	INDIA	
4.19.11	TOSHIBA WATER SOLUTIONS PVT. LTD. INDIA	INDIA	
4.20	EMERGENCY DIESEL GENERATOR		
A	INDIAN BIDDERS		
4.20.1	BHARAT HEAVY ELECTRICALS LIMITED (BHEL)	INDIA	Rev.4: Name Updation
4.20.2	FUJI ELECTRIC INDIA PVT LTD	INDIA	
4.20.3	KIRLOSKAR OIL ENGINES LTD	INDIA	
4.20.4	STERLING AND WILSON POWERGEN PVT. LTD	INDIA	
4.20.5	JAKSONS	INDIA	
4.20.6	WARTSILA	INDIA	
4.21	CRANE-H.O.T / E.O.T / ELECTRIC HOISTS		
A	INDIAN BIDDERS		
4.21.1	ANUPAM INDUSTRIES LIMITED (ANAND)	INDIA	
4.21.2	ARMSEL MHE PVT LTD	INDIA	
4.21.3	AVON CRANES PVT. LTD. INDIA	INDIA	
4.21.4	BOMBAY POWERLIFT E.H. PVT. LTD. INDIA	INDIA	
4.21.5	BRAITHWAITE & CO. LTD. INDIA	INDIA	
4.21.6	CONSOLIDATED HOISTS PVT LTD.	INDIA	
4.21.7	EDDY CRANES ENGRS (P) LTD	INDIA	
4.21.8	ELECTROMECH MATERIAL HANDLING SYSTEMS (INDIA) PRIVATE LIMITED	INDIA	Rev.16: Name Updation
4.21.9	FURNACE AND FOUNDRY EQUIPMENT CO.	INDIA	
4.21.10	GRIP ENGINEERS PVT.LTD	INDIA	
4.21.11	HEAVY ENGINEERING CORPORATION LTD	INDIA	
4.21.12	HERCULES HOISTS LTD (Authorised Representative /Business Partner : M/s BSI SOLUTIONZ, INDIA)	INDIA	Rev.16: Name Updation
4.21.13	HINDUSTAN MOTORS LTD. INDIA	INDIA	
4.21.14	JESSOP & CO. LTD. INDIA	INDIA	
4.21.15	KALINGA ENGINEERS LTD. INDIA	INDIA	
4.21.16	LIFTING EQUIPMENT & ACCESSORIES INDIA	INDIA	
4.21.17	MEEKA MACHINERY PVT LTD	INDIA	
4.21.18	MUKAND LIMITED	INDIA	
4.21.19	RHS CRANES & COMPONENTS	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
4.21.20	SAFEX ELECTROMECH PVT LTD	INDIA	
4.21.21	SAFEX ENERGY PVT LTD	INDIA	
4.21.22	SAVY ENGINEERING CORPORATION LTD. INDIA	INDIA	Rev.13: Name Deletion
4.21.23	SOUTHERN STRUCTURALS LTD. INDIA	INDIA	
4.21.24	TATA STEEL GROWTH SHOP	INDIA	
4.21.25	TECHNO INDUSTRIES	INDIA	
4.21.26	TRACTEL TIRFOR (I) PVT. LTD.	INDIA	
4.21.27	TUNGABHADRA STEEL PRODUCTS LTD. INDIA	INDIA	
4.21.28	UNIQUE INDUSTRIAL HANDLERS PVT. LTD.	INDIA	
4.21.29	W.H.BRADY & CO.LTD	INDIA	
4.21.30	WMI KONECRANES INDIA LTD.	INDIA	
4.22	REFRIGERATION SYSTEM- VAPOUR ABSORPTION		
A	INDIAN BIDDERS		
4.22.1	ALFA LAVAL	INDIA	
4.22.2	ETA ENGINEERING PVT. LTD.	INDIA	
4.22.3	KIRLOSKAR PNEUMATIC CO. LTD.	INDIA	
4.22.4	THERMAX LIMITED	INDIA	
4.22.5	VOLTAS LIMITED	INDIA	
4.23	VENTILATION & PRESSURISATION SYSTEM		
A	INDIAN BIDDERS		
4.23.1	ADVANCE VENTILATION PVT. LTD	INDIA	
4.23.2	BLUE STAR LTD	INDIA	
4.23.3	C DOCTOR INDIA PVT LTD	INDIA	
4.23.4	CARRIER CORPORATION	INDIA	
4.23.5	DUSTVEN PVT LTD	INDIA	
4.23.6	EMERSON NETWORK POWER (I) PVT LTD	INDIA	
4.23.7	ENGINEERS FABRICATORS	INDIA	
4.23.8	KPC	INDIA	
4.23.9	ROOTS COOLING SYSTEMS PVT LTD	INDIA	
4.23.10	S K SYSTEMS PVT LTD	INDIA	
4.23.11	VERTIV ENERGY PRIVATE LIMITED	INDIA	
4.23.12	VOLTAS LIMITED	INDIA	
4.24	AIR CONDITIONING SYSTEM - PACKAGE UNIT		
A	INDIAN BIDDERS		
4.24.1	ADVANCE VENTILATION PVT. LTD	INDIA	
4.24.2	AIR PERFECTION	INDIA	
4.24.3	BLUE STAR LTD	INDIA	
4.24.4	EMERSON NETWORK POWER (I) PVT LTD (VERTIV INDIA)	INDIA	
4.24.5	ETA ENGINEERING PVT. LTD.	INDIA	
4.24.6	ROOTS COOLING SYSTEMS PVT LTD	INDIA	
4.24.7	VOLTAS LIMITED	INDIA	
4.25	AIR CONDITIONING SYSTEM - CENTRAL		
A	INDIAN BIDDERS		
4.25.1	ABB LTD.	INDIA	


			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
4.25.2	ADVANCE VENTILATION PVT LTD	INDIA	
4.25.3	BATLIBOI ENVIROMENTAL ENGINEERING LTD	INDIA	Rev-13 : Name Updation
4.25.4	BLUE START LTD	INDIA	
4.25.5	CARRIER AIR CONDITIONING AND REFRIGERATION LTD	INDIA	Rev-13 : Name Updation
4.25.6	KIRLOSKAR PNEUMATIC CO. LTD.	INDIA	
4.25.7	ROOTS COOLING SYSTEMS PVT LTD	INDIA	
4.25.8	UNIVERSAL MEP PROJECTS & ENGINEERING SERVICES LIMITED (UMPESL)	INDIA	Rev-13 : Name Updation
4.25.9	ANEMO PROJECTS PVT. LTD	INDIA	Rev-13 : BIDDER ADDITON
4.26	CHILLER PACKAGE /CONDENSING UNIT		
A	INDIAN BIDDERS		
4.26.1	BLUESTAR	INDIA	
4.26.2	CARRIER AIR CONDITIONING AND REFRIGERATION LTD	INDIA	Rev-13 : Name Updation
4.26.3	DAIKIN	INDIA	
4.26.4	HITACHI	INDIA	
4.26.5	KIRLOSKAR	INDIA	
4.26.6	LG	INDIA	
4.26.7	TRANE	INDIA	
4.26.8	VOLTAS	INDIA	
4.26.9	YORK	INDIA	
4.27	AIR HANDLING UNIT		
A	INDIAN BIDDERS		
4.27.1	BLUESTAR	INDIA	
4.27.2	CARYAIRE	INDIA	
4.27.3	EDGE TECH	INDIA	
4.27.4	SUVIDHA(SAVEAIR)	INDIA	
4.27.5	VOLTAS	INDIA	
4.27.6	ZECO	INDIA	
4.27.7	CARRIER AIR CONDITIONING AND REFRIGERATION LTD	INDIA	Rev-13 : Name Updation
4.27.8	TRANE	INDIA	
4.27.9	YORK	INDIA	
4.27.10	ABB	INDIA	
4.27.11	FLAKT	INDIA	
4.28	CHEMICAL FILTER (HVAC)		
A	INDIAN BIDDERS		
4.28.1	BRY AIR	INDIA	
4.28.2	CAMFIL	INDIA	
4.28.3	CARYAIRE	INDIA	
4.28.4	PURAFIL	INDIA	
4.29	CENTRIFUGAL FAN (HVAC)		
A	INDIAN BIDDERS		
4.29.1	ADVANCE VENTILATION	INDIA	
4.29.2	AIR CONTROL	INDIA	
4.29.3	FLAKT (INDIA)	INDIA	
4.29.4	KRIGER	INDIA	
4.29.5	LTD	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
4.29.6	NICOTRA	INDIA	
4.29.7	S.K.SYSTEM	INDIA	
4.30	EXHAUST AXIAL FAN (HVAC)		
A	INDIAN BIDDERS		
4.30.1	GE POWER INDIA LIMITED	INDIA	
4.30.2	CROMPTON GREAVES LTD.	INDIA	
4.30.3	PATEL AIRFLOW LTD	INDIA	
4.31	SPLIT / WINDOW AC		
A	INDIAN BIDDERS		
4.31.1	BLUESTAR	INDIA	
4.31.2	CARRIER AIR CONDITIONING AND REFRIGERATION LTD	INDIA	Rev-13 : Name Updation
4.31.3	DAIKIN	INDIA	
4.31.4	HITACHI	INDIA	
4.31.5	MITSHUBISHI	INDIA	
4.31.6	PANASONIC	INDIA	
4.31.7	SHARP	INDIA	
4.31.8	VOLTAS	INDIA	
4.31.9	LG	INDIA	
4.31.10	LYODS	INDIA	
4.31.11	VEDIOCON	INDIA	
4.32	AIR FILTERS (HVAC)		
A	INDIAN BIDDERS		
4.32.1	AIRTECH	INDIA	
4.32.2	ANFILCO	INDIA	
4.32.3	DYNA	INDIA	
4.32.4	TENACITY	INDIA	
4.32.5	THERMADYNE	INDIA	
4.33	3 WAY MODULATING VALVE FOR HVAC APPLICATION		
A	INDIAN BIDDERS		
4.33.1	DANFOSS	INDIA	
4.33.2	HONEYWELL	INDIA	
4.33.3	JHONSON CONTROLS	INDIA	
4.33.4	PSL LTD	INDIA	
4.33.5	SIEMENS LIMITED	INDIA	Rev.14 : Name Updation
4.34	FIRE DAMPER		
A	INDIAN BIDDERS		
4.34.1	CARYAIRE	INDIA	
4.34.2	GEORGE RAO & CO	INDIA	
4.34.3	RAVISTAR	INDIA	
4.34.4	TSC INSTRUMENTS	INDIA	
4.34.5	RUSKIN	INDIA	
4.34.6	ACTION AIR	INDIA	

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
4.35	VOLUME CONTROL DAMPERS / LOUVERS		
A	INDIAN BIDDERS		
4.35.1	ADVANCE VENTILATION	INDIA	
4.35.2	AIR MASTER	INDIA	
4.35.3	CARRYAIRE	INDIA	
4.35.4	DYNACRAFT	INDIA	
4.35.5	RAVISTAR	INDIA	
4.35.6	S.K.SYSTEMS	INDIA	
4.36	GRILL / DIFFUSER FOR AIR CONDITIONING SYSTEM		
A	INDIAN BIDDERS		
4.36.1	AIR MASTER	INDIA	
4.36.2	CARRYAIRE	INDIA	
4.36.3	DYNACRAFT	INDIA	
4.36.4	RAVISTAR	INDIA	
4.36.5	TITUS	INDIA	
4.36.6	TROX	INDIA	
4.36.7	METAL AIRE	INDIA	
4.36.8	WATERLOO	INDIA	
4.37	DAMPER ACTUATOR		
A	INDIAN BIDDERS		
4.37.1	BELIMO	INDIA	
4.37.2	DANFOSS	INDIA	
4.37.3	HONEYWELL	INDIA	
4.37.4	SIEMENS LIMITED	INDIA	Rev.14 : Name Updation
4.38	MODULATING DAMPER ACTUATOR		
A	INDIAN BIDDERS		
4.38.1	HONEYWELL	INDIA	
4.38.2	INDFOSS	INDIA	
4.38.3	JHONSON CONTROLS	INDIA	
4.38.4	PENN	INDIA	
4.38.5	SIEMENS LIMITED	INDIA	Rev.14 : Name Updation
4.39	G.I. SHEETS (HVAC DUCTING)		
A	INDIAN BIDDERS		
4.39.1	JINDAL	INDIA	
4.39.2	SAIL	INDIA	
4.39.3	TATA	INDIA	
4.40	REFRIGERATION SYSTEM - PROCESS		
A	INDIAN BIDDERS		
4.40.1	ALFA LAVAL INDIA LTD.	INDIA	
4.40.2	KIRLOSKAR PNEUMATIC CO LTD- (PUNE)	INDIA	
4.40.3	SYSTEMS & COMPONENTS (INDIA) PVT. LTD.	INDIA	
4.40.4	TRANE	INDIA	
4.40.5	VOLTAS LIMITED	INDIA	

			
SECTION-A MECHANICAL EQUIPMENTS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
4.40.6	JOHNSON CONTROLS (INDIA) PRIVATE LIMITED	INDIA	Rev.16 : Name Updation
4.41	ELECTRONIC WEIGH SCALE		
A	INDIAN BIDDERS		
4.41.1	AVERY INDIA LTD	INDIA	
4.41.2	BLUE STAR LTD	INDIA	
4.41.3	HYDERABAD TULAMAN LTD	INDIA	
4.41.4	IPA PVT LTD.	INDIA	
4.41.5	PRECIA MOLEN INDIA PVT. LTD.	INDIA	
4.41.6	MINEBEA INTEC INDIA PVT LTD	INDIA	Rev.7: New Addition
4.41.7	RICE LAKE WEIGHING SYSTEMS INDIA LTD	INDIA	Rev.7: New Addition
4.41.8	METTLER-TOLEDO INDIA PVT LTD	INDIA	Rev.7: New Addition
4.41.9	SCHENCK PROCESS INDIA PVT LTD	INDIA	Rev.7: New Addition
4.42	PSA HYDROGEN PLANT		
A	INDIAN BIDDERS		
4.42.1	UOP INDIA PVT LTD	INDIA	
4.42.2	UOP LLC	INDIA	
4.43	STATIC MIXER		
A	INDIAN BIDDERS		
4.43.1	MIXRITE MIXING SYSTEMS	INDIA	
4.43.2	GMM PFAUDLER LIMITED	INDIA	Rev.3: Name Change
4.43.3	REMI PROCESS PLANT & MACHINERY LTD.	INDIA	
4.43.4	STANDARD ENGINEERS	INDIA	
4.43.5	SULZER INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
4.44	COALESCER - FILTER		
A	INDIAN BIDDERS		
4.44.1	GRAND PRIX ENGINEERING PVT LTD.	INDIA	
4.44.2	LARSEN & TOUBRO LTD.	INDIA	
4.44.3	MULTITEX FILTRATION ENGINEERS LTD.	INDIA	
4.44.4	PALL INDIA PVT LTD	INDIA	
4.44.5	PETROMAR ENGINEERED SOLUTIONS PRIVATE LIMITED	INDIA	Rev.15: Name Updation
4.44.6	PALL PHARMA LAB.	INDIA	REV.14 : Name Deletion
4.44.7	FIL SEP EQUIPMENTS PVT LTD	INDIA	REV.14 : Name Updation
4.45	FEED FLTR AUTO BACK WASH HYD.CRAKR DHDT		
A	INDIAN BIDDERS		
4.45.1	EATON INDUSTRIES PTE LIMITED	INDIA	
4.45.2	PALL INDIA PVT LTD	INDIA	
4.46	FILTER- ROTARY		
A	INDIAN BIDDERS		
4.46.1	EIMCO KCP LIMITED (THE)	INDIA	
4.47	FILTER-VACUUM		
A	INDIAN BIDDERS		

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
	NO INDIAN BIDDERS AVAILABLE		
4.48	QUICK OPENING CLOSURE(FILTER/SEPARATOR)		
A	INDIAN BIDDERS		
4.48.1	FLASH POINT EQUIPMENTS PVT. LTD.	INDIA	
4.48.2	MULTITEX FILTRATION ENGINEERS LTD.	INDIA	
4.48.3	PALL INDIA PRIVATE LIMITED	INDIA	Rev.14: Name Updation
4.49	LIFTS (PASSENGER & GOODS)		
A	INDIAN BIDDERS		
4.49.1	AILMAK	INDIA	
4.49.2	OTIS ELEVATOR COMPANY (I) LTD.	INDIA	
4.49.3	SCHINDLER INDIA PVT LTD	INDIA	
4.49.4	KONE ELEVATOR INDIA PVT LTD	INDIA	
4.49.5	THYSSENKRUPP ELEVATOR (INDIA) PVT. LTD.	INDIA	
4.50	LOADING/UNLOADING ARM		
A	INDIAN BIDDERS		
4.50.1	LLOYDS STEELS INDUSTRIES LTD.	INDIA	Rev.11: NAME ADDTION
4.50.2	WOODFIELD SYSTEMS INTERNATIONAL PVT. LTD	INDIA	Rev.11: NAME ADDTION
4.50.3	ASSOCIATE ENGINEERS	INDIA	Rev.11: NAME ADDTION
4.50.4	TECHNIKA	INDIA	Rev.11: NAME ADDTION
4.50.5	DOVER INDIA PVT. LTD. (OPW DIVISION)	INDIA	Rev.11: NAME ADDTION
4.50.6	FERRO TUBE & FORGE INDUSTRIES	INDIA	Rev.11: NAME ADDTION
4.51	TOWER PACKING CARBON		
A	INDIAN BIDDERS		
1.51.1	BLAST CARBOBLOCKS PVT LTD	INDIA	
1.51.2	CARBON PRODUCTS PVT LTD	INDIA	
1.51.3	SUGUNA INTERNATIONAL	INDIA	
4.52	TOWER PACKINGS;PVC&PP(NON-PROPRIETRY)		
A	INDIAN BIDDERS		
4.52.1	HI-PACK MASS TRANSFER PRODUCTS	INDIA	
4.52.2	MUNTERS INDIA HUMIDITY CONTROL PVT. LTD.	INDIA	Rev.3:Name Change
4.52.3	MASS TRANSFER PRODUCT INDUSTRIES	INDIA	
4.53	SPIRAL HEAT EXCHNAGER		
A	INDIAN BIDDERS		
4.53.1	TEMA INDIA	INDIA	
4.53.2	ALFA LAVAL	INDIA	
4.54	HASTOLLOY SOLID REACTORS		
A	INDIAN BIDDERS		
4.54.1	LARSEN AND TOUBRO	INDIA	
4.54.2	ISGEC	INDIA	
4.54.3	GODREJ AND BOYCE MFG CO LTD	INDIA	

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-A (MECHANICAL EQUIPMENTS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
4.55	DUPLEX SOLID REACTORS		
A	INDIAN BIDDERS		
4.55.1	LARSEN AND TOUBRO	INDIA	
4.55.2	ISGEC	INDIA	
4.55.3	GODREJ AND BOYCE MFG CO LTD	INDIA	
4.56	DEHYDRATION PACKAGE		
A	INDIAN BIDDERS		
4.56.1	URIEL	INDIA	
4.56.2	KILBURN ENGINEERING LIMITED	INDIA	
4.56.3	GAS PROCESSING EQUIPMENTS PVT. LTD.	INDIA	
4.56.4	MOJJ ENGINEERING SYSTEMS LTD.	INDIA	
4.56.5	PRAJ INDUSTRIES LTD.	INDIA	
4.56.6	NARAN LALA PVT. LTD.	INDIA	
4.57	BIOMASS SEPARATION PACKAGE		
A	INDIAN BIDDERS		
4.57.1	KILBURN ENGINEERING LIMITED	INDIA	
4.57.2	PENNWALT INDIA LTD.	INDIA	
4.57.3	ISGEC HEAVY ENGINEERING LTD.	INDIA	
4.57.4	SPAN HYDROTECH PVT. LTD.	INDIA	
4.58	FALLING FILM EVAPORATOR		
A	INDIAN BIDDERS		
4.58.1	SULZER INDIA PRIVATE LIMITED	INDIA	Rev.11: NAME UPDATION
4.58.2	SPRAY ENGINEERING DEVICES LTD.	INDIA	
4.58.3	URIEL	INDIA	
4.58.4	GRAND PRIX ENGINEERING PVT. LTD.	INDIA	
4.58.5	MULTITEX FILTRATION ENGINEERS LIMITED	INDIA	
4.59	INOCULATOR FEED GAS CONDITIONING PACKAGE		
A	INDIAN BIDDERS		
4.59.1	KILBURN ENGINEERING LIMITED	INDIA	

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M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1	PIPING & FITTINGS		
1.1	NON STANDARD FORGINGS-CARBON STEEL		
A	INDIAN BIDDERS		
1.1.1	BAY FORGE (FORMERLY KNOWN - FOMAS INDIA)	INDIA	
1.1.2	BHARAT FORGE LTD.	INDIA	
1.1.3	BRITEX ENGINEERING WORKS	INDIA	
1.1.4	CD ENGINEERING CO.	INDIA	
1.1.5	CD INDUSTRIES UNIT OF M/S KISAAN ENGINEERING WORKS PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.1.6	CHW FORGE PVT LTD (FR. CHAUDHRY HAMMER)	INDIA	
1.1.7	ECHJAY INDUSTRIES PVT LTD. (RAJKOT)	INDIA	
1.1.8	EMPEE ENGINEERING CORPORATION	INDIA	
1.1.9	GOOD LUCK ENGINEERING CO.	INDIA	
1.1.10	HEAVY ENGINEERING CORPORATION LTD	INDIA	
1.1.11	JAV FORGINGS & ENGINEERINGS PVT LTD	INDIA	Rev.1: Name Change
1.1.12	KISAAN STEELS PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.1.13	KUNJ FORGINGS PVT LTD.	INDIA	Rev.12: DELETED
1.1.14	L&T SPECIAL STEELS AND HEAVY FORGINGS	INDIA	
1.1.15	LAL METAL FORGE LTD	INDIA	
1.1.16	MACKEIL ISPAT & FORGING LTD	INDIA	
1.1.17	METAL FORGINGS PVT LTD	INDIA	
1.1.18	PALLAVI INDUSTRIES	INDIA	
1.1.19	PARAMOUNT FORGE	INDIA	
1.1.20	R D FORGE (A UNIT OF R D CHEMICALS PVT LTD)	INDIA	Rev.4: Name Updation
1.1.21	SANGHVI FORGING AND ENGINEERING LIMITED	INDIA	Rev.12: Deleted
1.1.22	SE FORGE LIMITED	INDIA	
1.1.23	TRIVENI REFRACTORIES PVT LTD	INDIA	
1.1.24	WONIL F&T CO. LTD	INDIA	
1.2	NON STANDARD FORGINGS-ALLOY STEEL		
A	INDIAN BIDDERS		
1.2.1	BAY FORGE (FORMERLY KNOWN - FOMAS INDIA)	INDIA	
1.2.2	BHARAT FORGE LTD.	INDIA	
1.2.3	CD ENGINEERING CO.	INDIA	
1.2.4	CHW FORGE PVT LTD (FR. CHAUDHRY HAMMER)	INDIA	
1.2.5	ECHJAY INDUSTRIES PVT LTD. (RAJKOT)	INDIA	Rev.1: Name Change
1.2.6	GOOD LUCK ENGINEERING CO.	INDIA	
1.2.7	JAV FORGINGS & ENGINEERINGS PVT LTD	INDIA	
1.2.8	KUNJ FORGINGS PVT LTD.	INDIA	Rev.12: DELETED
1.2.9	L&T SPECIAL STEELS AND HEAVY FORGINGS	INDIA	
1.2.10	MACKEIL ISPAT & FORGING LTD	INDIA	
1.2.11	METAL FORGINGS PVT LTD	INDIA	Rev.1: Name Change
1.2.12	R D FORGE (A UNIT OF R D CHEMICALS PVT LTD)	INDIA	Rev.4: Name Updation
1.2.13	SANGHVI FORGING AND ENGINEERING LIMITED	INDIA	Rev.12: Deleted
1.2.14	SE FORGE LIMITED	INDIA	
1.2.15	WONIL F&T CO. LTD	INDIA	
1.2.16	KISAAN STEELS PRIVATE LIMITED	INDIA	Rev.16: Bidder Addition
1.3	NON STANDARD FORGINGS- STAINLESS STEEL		

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M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
A	INDIAN BIDDERS		
1.3.1	BAY FORGE (FORMERLY KNOWN - FOMAS INDIA)	INDIA	
1.3.2	BHARAT FORGE LTD.	INDIA	
1.3.3	BRITECH ENGINEERING WORKS	INDIA	
1.3.4	CD ENGINEERING CO.	INDIA	
1.3.5	CD INDUSTRIES UNIT OF M/S KISAAN ENGINEERING WORKS PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.3.6	CHW FORGE PVT LTD (FR. CHAUDHRY HAMMER)	INDIA	
1.3.7	ECHJAY INDUSTRIES PVT LTD	INDIA	
1.3.8	EMPEE ENGINEERING CORPORATION	INDIA	
1.3.9	GOOD LUCK ENGINEERING CO.	INDIA	
1.3.10	JAV FORGINGS & ENGINEERINGS PVT LTD	INDIA	Rev.1: Name Change
1.3.11	L&T SPECIAL STEELS AND HEAVY FORGINGS	INDIA	
1.3.12	METAL FORGINGS PVT LTD	INDIA	
1.3.13	PALLAVI INDUSTRIES	INDIA	
1.3.14	PARAMOUNT FORGE	INDIA	
1.3.15	R D FORGE (A UNIT OF R D CHEMICALS PVT LTD)	INDIA	Rev.4: Name Updation
1.3.16	SANGHVI FORGING AND ENGINEERING LIMITED	INDIA	Rev.12: Deleted
1.3.17	SE FORGE LIMITED	INDIA	
1.3.18	WONIL F&T CO. LTD	INDIA	
1.3.19	KISAAN STEELS PRIVATE LIMITED	INDIA	Rev.16: Bidder Addition
1.4	LINING (RUBBER)		
A	INDIAN BIDDERS		
1.4.1	ARUL RUBBER PVT LTD	INDIA	
1.4.2	CORI ENGINEERS PVT LTD	INDIA	
1.4.3	JASMINO POLYMERTECH PVT.LTD.	INDIA	
1.4.4	LATHIA RUBBER MFG CO	INDIA	
1.4.5	LEBRACS RUBBER LININGS PVT LTD	INDIA	
1.4.6	MIL INDUSTRIES LIMITED	INDIA	
1.4.7	POLY RUBBER PRODUCTS	INDIA	
1.4.8	SHRI RAM RUBTECH PVT LIMITED	INDIA	
1.4.9	SRM EXOFLEX PVT. LTD.	INDIA	
1.4.10	PAL ENGINEERING CORPORATION	INDIA	Rev.5: New Addition
1.4.11	TEGA INDUSTRIES LTD	INDIA	
1.5	LINING-FRP(TANKS & VESSELS)		
A	INDIAN BIDDERS		
1.5.1	CARBORUNDUM UNIVERSAL LTD-PRODORITE DIVN	INDIA	
1.5.2	CHEMICAL PROCESS EQPTS. PVT. LTD.	INDIA	
1.5.3	DOLF INDUSTRIES	INDIA	
1.5.4	EPP COMPOSITE PVT LTD	INDIA	
1.5.5	GANDHI & ASSOCIATES	INDIA	
1.5.6	INDUSTRIAL SERVICES	INDIA	
1.5.7	JASMINO POLYMERTECH PVT.LTD.	INDIA	
1.5.8	MUNDOZ CORPORATION	INDIA	
1.5.9	POLY PLAST CHEMI-PLANT (I) LTD.	INDIA	
1.5.10	RUJA CHEMICALS P. LTD.	INDIA	
1.5.11	SUNRISE INDUSTRIES (INDIA) LTD	INDIA	

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SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.6	PVDF/FRP EQUIPMENTS		
A	INDIAN BIDDERS		
1.6.1	CARBORUNDUM UNIVERSAL LTD-PRODORITE DIVN	INDIA	
1.6.2	DOLF INDUSTRIES	INDIA	
1.6.3	GANDHI & ASSOCIATES	INDIA	
1.6.4	INDUSTRIAL SERVICES	INDIA	
1.6.5	PRAVEEN REINFORCED PLASTICS PVT LTD	INDIA	
1.6.6	RUJA CHEMICALS P. LTD.	INDIA	
1.6.7	STRATEGIC ENGINEERING (P) LTD	INDIA	
1.6.8	SUNRISE INDUSTRIES (INDIA) LTD	INDIA	
1.7	ROCK WOOL INSULATION PRODUCTS		
A	INDIAN BIDDERS		
1.7.1	GOENKA ROCKWOOL (INDIA)PVT.LTD.	INDIA	
1.7.2	JAMSHEDPUR MINERALWOOL MFG.CO. (P) LTD.	INDIA	
1.7.3	LAPINUS ROCKWOOL PVT LTD	INDIA	
1.7.4	LLOYD ROCK FIBRES LTD	INDIA	
1.7.5	MINWOOL ROCK FIBRES LTD	INDIA	
1.7.6	NGP INDUSTRIES LTD (UNIT- ROCKWOOL INDST)	INDIA	
1.7.7	NGP INDUSTRIES LTD- (UNIT PUNJ STAR)	INDIA	
1.7.8	POLYBOND INSULATION PVT LTD	INDIA	
1.7.9	ROCKWOOL INDIA LTD	INDIA	
1.7.10	SHREERAM EQUITECH PRIVATE LTD	INDIA	
1.7.11	THERMOCARE ROCKWOOL (I)PVT.LTD.	INDIA	
1.7.12	ROCKWOOL INDIA PVT. LTD.	INDIA	
1.7.13	HI-TECH ROCK FIBER PVT LTD	INDIA	
1.7.14	ROXUL ROCKWOOL INSULATION INIA PVT LTD	INDIA	
1.8	GLASS WOOL INSULATION PRODUCTS		
A	INDIAN BIDDERS		
1.8.1	UP TWIGA FIBRE GLASS LTD	INDIA	
1.9	CALCIUM SILICATE PRODUCTS		
A	INDIAN BIDDERS		
1.9.1	HYDERABAD INDUSTRIES LTD (DHARUHERA)	INDIA	
1.9.2	NEWKEM INDUSTRIES	INDIA	
1.10	PU FOAM & POLYISOCYANURATE FOAM		
A	INDIAN BIDDERS		
1.10.1	ISOLLOYD ENGG. TECHNOLOGIES LTD	INDIA	
1.10.2	LLOYD INSULATIONS (INDIA) LTD	INDIA	
1.10.3	MALANPUR ENTECH PVT LTD	INDIA	
1.11	LINE PIPES (HELICAL SAW)		
A	INDIAN BIDDERS		
1.11.1	ARCELORMITTAL NIPPON STEEL INDIA LIMITED	INDIA	Rev.2: Name Change
1.11.2	JINDAL SAW LTD	INDIA	
1.11.3	MAN INDUSTRIES (INDIA) LTD	INDIA	
1.11.4	RATNAMANI METALS AND TUBES LTD	INDIA	
1.11.5	TOPWORTH PIPES & TUBES PVT. LTD.	INDIA	

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SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.11.6	WELSPUN CORP LIMITED	INDIA	
1.12	LINE PIPES ERW		
A	INDIAN BIDDERS		
1.12.1	BHANDARI FOILS & TUBES LTD	INDIA	
1.12.2	JINDAL (INDIA) LIMITED	INDIA	
1.12.3	JINDAL INDUSTRIES LTD	INDIA	
1.12.4	MAHARASHTRA SEAMLESS LTD.	INDIA	
1.12.5	MITTAL PRECISION HITECH STEELS	INDIA	
1.12.6	RATNAMANI METALS AND TUBES LTD	INDIA	
1.12.7	REMI EDELSTAHL TUBES LTD	INDIA	
1.12.8	SHUBHALAXMI METALS & TUBES PVT LTD	INDIA	
1.12.9	SURYA ROSHNI LTD	INDIA	
1.12.10	WELSPUN CORP LIMITED	INDIA	
1.12.11	BHUSHAN STEEL LIMITED	INDIA	
1.13	LINE PIPES SEAMLESS		
A	INDIAN BIDDERS		
1.13.1	JINDAL SAW LTD (NASHIK WORKS)	INDIA	
1.13.2	MAHARASHTRA SEAMLESS LTD.	INDIA	
1.13.3	REMI EDELSTAHL TUBES LTD	INDIA	
1.13.4	SHUBHALAXMI METALS & TUBES PVT LTD	INDIA	
1.14	LONG RADIUS BENDS		
A	INDIAN BIDDERS		
1.14.1	JINDAL SAW LTD	INDIA	
1.14.2	WELSPUN CORP LIMITED	INDIA	
1.15	FLANGE- CARBON STEEL		
A	INDIAN BIDDERS		
1.15.1	ABASI ENGINEERING WORKS	INDIA	
1.15.2	ANANDMAYEE FORGINGS PVT LTD	INDIA	
1.15.3	BHARAT FORGE LTD.	INDIA	
1.15.4	BRITEX ENGINEERING WORKS	INDIA	
1.15.5	CD INDUSTRIES UNIT OF M/S KISAAN ENGINEERING WORKS PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.15.6	CHW FORGE PVT LTD (FR. CHAUDHRY HAMMER)	INDIA	
1.15.7	ECHJAY INDUSTRIES PVT LTD	INDIA	
1.15.8	FIVEBROS FORGINGS PVT.LTD.	INDIA	
1.15.9	GOOD LUCK ENGINEERING CO.	INDIA	
1.15.10	HILTON METAL FORGING LIMITED	INDIA	
1.15.11	JAI AUTO PVT LTD	INDIA	
1.15.12	JAV FORGINGS & ENGINEERINGS PVT LTD	INDIA	Rev.1: Name Change
1.15.13	KISAAN DIETECH PVT LTD	INDIA	
1.15.14	KISAAN STEELS PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.15.15	KUNJ FORGINGS PVT LTD	INDIA	Rev.12: DELETED
1.15.16	LAL METAL FORGE LTD	INDIA	
1.15.17	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.15.18	MAASS FLANGE INDIA PVT. LTD	INDIA	

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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.15.19	METAL FORGINGS PVT LTD	INDIA	
1.15.20	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.15.21	PARAMOUNT FORGE	INDIA	
1.15.22	PRADEEP METALS LIMITED	INDIA	
1.15.23	R D FORGE (A UNIT OF R D CHEMICALS PVT LTD)	INDIA	Rev.4: Name Updation
1.15.24	R.N.GUPTA & CO. LTD	INDIA	
1.15.25	SANGHVI FORGING AND ENGINEERING LIMITED	INDIA	Rev.12: Deleted
1.15.26	STEEL AIDS ENTERPRISE PVT LTD	INDIA	
1.15.27	UTSAH ENGINEERING PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.15.28	TRIVENI REFRACTORIES PVT LTD	INDIA	
1.15.29	MAXELL FORGE INDUSTRIES	INDIA	
1.15.30	GAYATRI FORGE PVT LTD	INDIA	
1.15.31	K S PIPE FITTINGS PRIVATE LIMITED	INDIA	
1.16	FLANGE-ALLOY STEEL		
A	INDIAN BIDDERS		
1.16.1	ANANDMAYEE FORGINGS PVT LTD	INDIA	
1.16.2	BHARAT FORGE LTD.	INDIA	
1.16.3	CHW FORGE PVT LTD (FR. CHAUDHRY HAMMER)	INDIA	
1.16.4	ECHJAY INDUSTRIES PVT LTD	INDIA	Rev.1: Name Change
1.16.5	FIVEBROS FORGINGS PVT.LTD.	INDIA	
1.16.6	GOOD LUCK ENGINEERING CO.	INDIA	
1.16.7	JAV FORGINGS & ENGINEERINGS PVT LTD	INDIA	Rev.1: Name Change
1.16.8	KUNJ FORGINGS PVT LTD	INDIA	Rev.12: DELETED
1.16.9	LAL METAL FORGE LTD	INDIA	
1.16.10	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.16.11	METAL FORGINGS PVT LTD	INDIA	
1.16.12	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.16.13	PARAMOUNT FORGE	INDIA	
1.16.14	R D FORGE (A UNIT OF R D CHEMICALS PVT LTD)	INDIA	Rev.4: Name Updation
1.16.15	SANGHVI FORGING AND ENGINEERING LIMITED	INDIA	Rev.12: Deleted
1.16.16	UTSAH ENGINEERING PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.16.17	MAXELL FORGE INDUSTRIES	INDIA	
1.16.18	GAYATRI FORGE PVT LTD	INDIA	
1.16.19	K S PIPE FITTINGS PRIVATE LIMITED	INDIA	
1.16.20	KISAAN STEELS PRIVATE LIMITED	INDIA	Rev.16: Bidder Addition
1.17	FLANGE-STAINLESS STEEL		
A	INDIAN BIDDERS		
1.17.1	ANANDMAYEE FORGINGS PVT LTD	INDIA	
1.17.2	BHARAT FORGE LTD.	INDIA	
1.17.3	BRITEX ENGINEERING WORKS	INDIA	
1.17.4	CD INDUSTRIES UNIT OF M/S KISAAN ENGINEERING WORKS PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.17.5	CHANDAN STEEL LTD	INDIA	
1.17.6	CHW FORGE PVT LTD (FR. CHAUDHRY HAMMER)	INDIA	
1.17.7	ECHJAY INDUSTRIES PVT LTD	INDIA	
1.17.8	FIVEBROS FORGINGS PVT.LTD.	INDIA	
1.17.9	GOOD LUCK ENGINEERING CO.	INDIA	


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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.17.10	HILTON METAL FORGING LIMITED	INDIA	
1.17.11	JAV FORGINGS & ENGINEERINGS PVT LTD	INDIA	Rev.1: Name Change
1.17.12	KUNJ FORGINGS PVT LTD	INDIA	Rev.12: DELETED
1.17.13	LAL METAL FORGE LTD	INDIA	
1.17.14	METAL FORGINGS PVT LTD	INDIA	
1.17.15	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.17.16	PARAMOUNT FORGE	INDIA	
1.17.17	PRADEEP METALS LIMITED	INDIA	
1.17.18	R D FORGE (A UNIT OF R D CHEMICALS PVT LTD)	INDIA	Rev.4: Name Updation
1.17.19	SANGHVI FORGING AND ENGINEERING LIMITED	INDIA	Rev.12: Deleted
1.17.20	UTSAH ENGINEERING PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.17.21	VIRAJ PROFILES LIMITED	INDIA	
1.17.22	MAXELL FORGE INDUSTRIES	INDIA	
1.17.23	GAYATRI FORGE PVT LTD	INDIA	
1.17.24	MAASS FLANGE INDIA PVT. LTD	INDIA	
1.17.25	K S PIPE FITTINGS PRIVATE LIMITED	INDIA	
1.17.26	JAI AUTO PVT. LTD	INDIA	Rev.13: Vendor Addition
1.17.27	KISAAN STEELS PRIVATE LIMITED	INDIA	Rev.16: Bidder Addition
1.18	FLANGES-EXOTIC		
A	INDIAN BIDDERS		
1.18.1	BRITECH ENGINEERING WORKS	INDIA	
1.19	COMPACT FLANGE		
1.20	CLAMP CONNECTOR		
1.21	SIGHT FLOW INDICATORS (SIGHT GLASSES)		
A	INDIAN BIDDERS		
1.21.1	BLISS ANAND PVT LTD	INDIA	
1.21.2	LEVCON INSTRUMENTS PVT LTD	INDIA	
1.21.3	PRATOLINA INSTRUMENTS PVT LTD	INDIA	
1.21.4	SIGMA INSTRUMENTS CO	INDIA	
1.21.5	AMARAMA ENGINEERS	INDIA	
1.21.6	CHEMTROLS INDUSTRIES LTD	INDIA	Rev.9 : Holiday List upto 29.07.2022
1.21.7	C-TRU PROCESS EQUIPMENTS	INDIA	
1.21.8	TELFLO INSTRUMENT AND CONTROLS	INDIA	
1.22	PIPE-CARBON STEEL TO INDIAN STANDARDS		
A	INDIAN BIDDERS		
1.22.1	A.S.T. PIPES PVT. LTD.(AST GROUP)	INDIA	
1.22.2	ASIAN MILLS PVT LTD	INDIA	
1.22.3	ASIAN TUBES LTD.	INDIA	
1.22.4	ASRANI TUBES LIMITED	INDIA	
1.22.5	DADU PIPES (P) LTD	INDIA	
1.22.6	GOODLUCK STEEL TUBES LTD	INDIA	
1.22.7	INDUS TUBE LIMITED	INDIA	
1.22.8	JCO GAS PIPE LIMITED	INDIA	
1.22.9	JINDAL (INDIA) LIMITED	INDIA	

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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.22.10	JINDAL INDUSTRIES LTD	INDIA	
1.22.11	JINDAL PIPES LTD	INDIA	
1.22.12	JINDAL SAW LTD (KOSI WORKS)	INDIA	
1.22.13	LAL BABA SEAMLESS TUBES PVT. LTD	INDIA	
1.22.14	LALIT PIPES & PIPES LTD	INDIA	
1.22.15	MAHARASHTRA SEAMLESS LTD.	INDIA	
1.22.16	MAN INDUSTRIES (INDIA) LTD	INDIA	
1.22.17	MUKAT TANKS & VESSELS PVT ITD	INDIA	Rev.1: Name Change
1.22.18	NEZONE TUBES LIMITED	INDIA	
1.22.19	NORTH EASTERN TUBES LIMITED	INDIA	
1.22.20	P S STEEL TUBES LTD	INDIA	
1.22.21	PRATIBHA INDUSTRIES LIMITED	INDIA	
1.22.22	RAMA STEEL TUBES LTD.	INDIA	
1.22.23	RATNAMANI METALS AND TUBES LTD	INDIA	
1.22.24	RAVINDRA TUBES LIMITED	INDIA	
1.22.25	SAMSHI PIPE INDUSTRIES LIMITED	INDIA	
1.22.26	SURYA ROSHNI LTD	INDIA	
1.22.27	SWASTIK PIPES LTD	INDIA	
1.22.28	UTKARSH TUBES & PIPES LTD (FORMLY. BMW)	INDIA	
1.22.29	WELSPUN CORP LIMITED	INDIA	
1.22.30	ZENITH BIRLA (INDIA) LIMITED	INDIA	
1.22.31	ADVANCED STEEL TUBE LTD	INDIA	
1.22.32	APL APOLLO TUBE LTD	INDIA	
1.22.33	CAPACITY STRUCTURES LTD	INDIA	
1.22.34	ARCELORMITTAL NIPPON STEEL INDIA LIMITED	INDIA	Rev.2: Name Change
1.23	PIPES & TUBULARS TO A.P.I.STANDARDS		
A	INDIAN BIDDERS		
1.23.1	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.23.2	ARCELORMITTAL NIPPON STEEL INDIA LIMITED	INDIA	Rev.2: Name Change
1.23.3	ISMT LTD	INDIA	
1.23.4	JCO GAS PIPE LIMITED	INDIA	
1.23.5	JINDAL PIPES LTD	INDIA	
1.23.6	JINDAL SAW LTD (KOSI WORKS)	INDIA	
1.23.7	JINDAL SAW LTD (NASHIK WORKS)	INDIA	
1.23.8	LALIT PIPES & PIPES LTD	INDIA	
1.23.9	MAHARASHTRA SEAMLESS LTD.	INDIA	
1.23.10	MUKAT TANKS & VESSELS PVT ITD	INDIA	Rev.1: Name Change
1.23.11	PRATIBHA INDUSTRIES LIMITED	INDIA	
1.23.12	RATNAMANI METALS AND TUBES LTD	INDIA	
1.23.13	SURYA ROSHNI LTD	INDIA	
1.23.14	SWASTIK PIPES LTD	INDIA	
1.23.15	WELSPUN CORP LIMITED	INDIA	
1.24	PIPE/TUBE-C S (SEAMLESS)TO ASTM STDS		
A	INDIAN BIDDERS		
1.24.1	ANAND SEAMLESS TUBES PVT. LTD	INDIA	

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.24.2	AVON TUBETECH PVT LTD	INDIA	
1.24.3	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.24.4	HEAVY METAL & TUBES (INDIA) PRIVATE LIMITED	INDIA	Rev.7: Name Change
1.24.5	ISMT LTD-AHMEDNAGAR	INDIA	
1.24.6	JINDAL SAW LTD (NASHIK WORKS)	INDIA	
1.24.7	JR SEAMLESS PVT.LTD	INDIA	
1.24.8	LAL BABA SEAMLESS TUBES PVT. LTD	INDIA	
1.24.9	MAHARASHTRA SEAMLESS LTD.	INDIA	
1.24.10	PATELS AIRFLOW LTD.	INDIA	
1.24.11	RATNADEEP METAL AND TUBES LTD.	INDIA	
1.24.12	SAINEST TUBES PVT LTD	INDIA	
1.24.13	SN TUBES PRIVATE LIMITED	INDIA	
1.25	PIPE-CARBON STEEL(WELDED)TO ASTM STDS		
A	INDIAN BIDDERS		
1.25.1	ARCELORMITTAL NIPPON STEEL INDIA LIMITED	INDIA	Rev.2: Name Change
1.25.2	JINDAL SAW LTD (KOSI WORKS)	INDIA	
1.25.3	LALIT PIPES & PIPES LTD	INDIA	
1.25.4	MAN INDUSTRIES (INDIA) LTD	INDIA	
1.25.5	MUKAT TANKS & VESSELS PVT ITD	INDIA	Rev.1: Name Change
1.25.6	RATNAMANI METALS AND TUBES LTD	INDIA	
1.26	PIPE/TUBE- A S (SEAMLESS)TO ASTM STDS		
A	INDIAN BIDDERS		
1.26.1	ANAND SEAMLESS TUBES PVT. LTD	INDIA	
1.26.2	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.26.3	HEAVY METAL & TUBES (INDIA) PRIVATE LIMITED	INDIA	Rev.7: Name Change
1.26.4	ISMT LTD-AHMEDNAGAR	INDIA	
1.26.5	ISMT LTD	INDIA	
1.26.6	JINDAL SAW LTD (NASHIK WORKS)	INDIA	
1.26.7	JR SEAMLESS PVT.LTD	INDIA	
1.26.8	MAHARASHTRA SEAMLESS LTD.	INDIA	
1.26.9	PATELS AIRFLOW LTD.	INDIA	
1.26.10	RATNADEEP METAL AND TUBES LTD.	INDIA	
1.26.11	SAINEST TUBES PVT LTD	INDIA	
1.27	PIPE/TUBE-SS(S.LESS & WELDED)TO ASTM STD		
A	INDIAN BIDDERS		
1.27.1	APEX TUBES PVT LTD	INDIA	
1.27.2	JINDAL SAW LTD (NASHIK WORKS)	INDIA	
1.27.3	KRYSTAL GLOBAL ENGINEERING LTD.	INDIA	Rev.2: Name Change
1.27.4	MAXIM TUBES COMPANY PVT LTD	INDIA	
1.27.5	MBM TUBES PVT LTD	INDIA	
1.27.6	RATNADEEP METAL AND TUBES LTD.	INDIA	
1.27.7	RATNAMANI METALS AND TUBES LTD	INDIA	
1.27.8	SANDVIK MATERIALS TECHNOLOGY INDIA PVT LTD	INDIA	Rev.4: Name Updation
1.27.9	SCODA TUBES LTD	INDIA	
1.27.10	SCORODITE STAINLESS (INDIA) PVT. LTD.	INDIA	Rev-13 : Delisted from Holiday list

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.27.11	SHALCO INDUSTRIES PVT LTD.	INDIA	
1.27.12	SHUBHLAXMI METALS AND TUBES PVT. LTD	INDIA	
1.27.13	STEAMLINE INDUSTRIES Ltd	INDIA	
1.27.14	ARVIND PIPES AND FITTINGS INDUSTRIES PRIVATE LIMITED	INDIA	Rev.11: Name Updation
1.27.15	BHANDARI FOILS AND TUBES LIMITED.	INDIA	Rev.9: Name Updation
1.27.16	CHANDAN STEEL LIMITED	INDIA	Rev.9: Name Updation
1.27.17	DIVINE TUBES PRIVATE LIMITED	INDIA	Rev.9: Name Updation
1.27.18	HEAVY METAL & TUBES (INDIA) PRIVATE LIMITED	INDIA	Rev.7: Name Change
1.27.19	HELLIOS TUBEALLOYS PVT LTD	INDIA	Rev.11: Name Updation
1.27.20	SURAJ LIMITED	INDIA	
1.27.21	TUBACEX PRAKASH INDIA PVT LTD	INDIA	
1.27.22	REMI EDELSTAHL TUBULARS LTD	INDIA	Rev.7: New Addition
1.27.23	WELSPUN SPECIALTY SOLUTIONS LIMITED	INDIA	Rev.12: New Addition
1.28	PIPE/TUBE-S.LESS(DUPLEX/SUPER DUPLEX SS)		
A	INDIAN BIDDERS		
1.28.1	RATNADEEP METAL AND TUBES LTD.	INDIA	
1.28.2	RATNAMANI METALS AND TUBES LTD	INDIA	
1.28.3	SANDVIK ASIA PVT. LIMITED (AHMEDABAD)	INDIA	
1.29	PIPE / FITTINGS -PTFE LINED		
A	INDIAN BIDDERS		
1.29.1	D.V.POLYMERS INDIA (P) LTD	INDIA	
1.29.2	DIP-FLON ENGINEERING & CO.	INDIA	
1.29.3	HORIZON POLYMER ENGG. LTD.	INDIA	
1.29.4	MIL INDUSTRIES LIMITED	INDIA	
1.29.5	PLASTRULON PROCESSORS LTD	INDIA	
1.29.6	SUPER INDUSTRIAL LINING PVT LTD	INDIA	
1.30	PIPES -SS WELDED TO A 358		
A	INDIAN BIDDERS		
1.30.1	RATNAMANI METALS AND TUBES LTD	INDIA	
1.30.2	SCORODITE STAINLESS (INDIA) PVT. LTD.	INDIA	Rev-13 : Delisted from Holiday list
1.30.3	TUBACEX PRAKASH INDIA PVT. LTD.	INDIA	
1.30.4	REMI EDELSTAHL TUBULARS LTD	INDIA	
1.30.5	INOX PIPE & FITTINGS INDUSTRIES	INDIA	Rev-15 : Bidder Addition
1.30.6	JINDAL SAW LTD	INDIA	Rev-15 : Bidder Addition
1.31	DUPLEX/SUPER DUPLEX SS WELDED PIPES		
A	INDIAN BIDDERS		
1.32	PIPES- INDIAN STOCKIST		
A	INDIAN BIDDERS		
1.32.1	BHARAT ENTERPRISES	INDIA	

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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.32.2	EVERGREEN SEAMLESS PIPES & TUBES PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.32.3	GREEN LINE PIPE AND FITTINGS	INDIA	
1.32.4	HI TECH METAL AND TUBES	INDIA	
1.32.5	INDUSTRIAL METAL CORPORATION	INDIA	
1.32.6	KWALITY TUBES	INDIA	Rev-14 : Delisted from Holiday list
1.32.7	MOKSHI INDUSTRIES PVT. LTD	INDIA	
1.32.8	MOTILAL LAXMICHAND SANGHAVI	INDIA	Rev.7: Name Change
1.32.9	N-PIPE SOLUTIONS INC	INDIA	Rev.7: Name Change
1.32.10	PIPES AND FLOW PRODUCTS	INDIA	
1.32.11	PK FORGE & FITTINGS INDUSTRIES	INDIA	
1.32.12	RAJENDRA PIPING & FITTINGS	INDIA	
1.32.13	SADAF TRADING COMPANY	INDIA	
1.32.14	STAR METAL AND TUBES	INDIA	
1.32.15	VENUS TRADING COMPANY	INDIA	
1.32.16	VINAYAK PIPES & TUBES PVT LTD	INDIA	
1.32.18	SEVANTILAL & SONS PVT. LTD	INDIA	Rev.11: Name Change
1.32.19	MUKESH METAL INDUSTRIES	INDIA	
1.32.20	GHAMPAK STEEL & ENGG CO	INDIA	Rev.1: Name Change
1.32.21	MAHALAXMI METAL CORPORATION	INDIA	
1.32.22	SUPERIOR STEEL INDUSTRIES	INDIA	Rev.10: Vendor Addition
1.33	PIPE-CLADDED		
1.34	PIPE-WELDED ALLOY STEEL		
A	INDIAN BIDDERS		
1.34.1	LALIT PIPES & PIPES LTD	INDIA	
1.34.2	RATNAMANI METALS AND TUBES LTD	INDIA	
1.35	PIPE-PVDF/FRP		
A	INDIAN BIDDERS		
1.35.1	GANDHI & ASSOCIATES	INDIA	
1.35.2	PRAVEEN REINFORCED PLASTICS PVT LTD	INDIA	
1.35.3	SUNRISE INDUSTRIES (INDIA) LTD	INDIA	
1.36	PIPE-FRP		
A	INDIAN BIDDERS		
1.36.1	CARBON EVERFLOW LTD.	INDIA	
1.36.2	CARBORUNDUM UNIVERSAL LTD-PRODORITE DIVN	INDIA	
1.36.3	CHEMICAL PROCESS EQPTS. PVT. LTD.	INDIA	
1.36.4	DOLF INDUSTRIES	INDIA	
1.36.5	EPP COMPOSITE PVT LTD	INDIA	
1.36.6	GANDHI & ASSOCIATES	INDIA	
1.36.7	INDUSTRIAL SERVICES	INDIA	
1.36.8	POLY PLAST CHEMI-PLANT (I) LTD.	INDIA	
1.36.9	PRAVEEN REINFORCED PLASTICS PVT LTD	INDIA	
1.36.10	RUJA CHEMICALS P. LTD.	INDIA	
1.36.11	STRATEGIC ENGINEERING (P) LTD	INDIA	
1.36.12	SUNRISE INDUSTRIES (INDIA) LTD	INDIA	
1.37	PIPE-GRE		

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
1.38	PIPE-TITANIUM (HS CODE - 8108)		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
1.39	PIPING SYSTEM-CLAD(SHOP FABRICATED)		
A	INDIAN BIDDERS		
1.39.1	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.39.2	CRYSTAL INDUSTRIAL SYNDICATE PVT LTD.	INDIA	
1.39.3	G.R. ENGINEERING PRIVATE LIMITED	INDIA	Rev-11 : Name Updation
1.39.4	INDUS PROJECTS LIMITED	INDIA	
1.39.5	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.39.6	LARSEN & TOUBRO LTD	INDIA	
1.39.7	TECHNO PROCESS EQUIPMENTS (INDIA) PV LTD	INDIA	
1.40	PRE-FABRICATED PIPING SPOOL		
A	INDIAN BIDDERS		
1.40.1	BHARAT HEAVY ELECTRICAL LTD.	INDIA	
1.40.2	DEE DEVELOPMENT ENGINEERS LIMITED	INDIA	
1.40.3	GUJRAT INFRAPIPES PVT. LIMITED	INDIA	
1.40.4	LARSEN & TOUBRO LTD	INDIA	
1.40.5	ISGEC HEAVY ENGINEERING LTD	INDIA	
1.41	PIPING SYSTEM-GRE/GRP		
A	INDIAN BIDDERS		
1.41.1	EPP COMPOSITE PVT LTD	INDIA	
1.42	TUBE-WELDED CARBON STEEL		
A	INDIAN BIDDERS		
1.43	TUBE-WELDED ALLOY STEEL		
A	INDIAN BIDDERS		
1.44	TUBE-TITANIUM (HS CODE - 8108)		
A	INDIAN BIDDERS		
1.45	TUBE COPPER AND ALLOYS		
A	INDIAN BIDDERS		
1.45.1	ACCENT METALS PVT.LTD.	INDIA	
1.45.2	CUBEX TUBING PVT LTD	INDIA	
1.45.3	INDUSTRIAL TUBES MANUFACTURERS PVT. LTD.	INDIA	
1.45.4	MEHTA TUBES LIMITED	INDIA	
1.45.5	METAL ALLOYS CORPORATION	INDIA	
1.45.6	MULTIMETALS LIMITED	INDIA	
1.46	PIPES & FITTINGS-FOREIGN AGENTS/STOCKIST/TRADERS		
A	INDIAN BIDDERS		

			
SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
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M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.46.1	STAR METAL AND TUBES	INDIA	
1.47	FITTING BLOCK FORGED-CARBON STEEL		
A	INDIAN BIDDERS		
1.47.1	CSA FITTINGS	INDIA	
1.47.2	EBY FASTENERS	INDIA	
1.47.3	FLASH FORGE PVT LTD	INDIA	
1.47.4	HILTON METAL FORGING LIMITED	INDIA	
1.47.5	LEADER VALVES LTD	INDIA	
1.47.6	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.47.7	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.47.8	TUBE BEND (CALCUTTA) PVT LTD	INDIA	
1.47.9	U I PIPE FITTINGS PVT LTD	INDIA	
1.47.10	VIJAY CYCLE & STEEL INDUSTRIES	INDIA	
1.47.11	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.47.12	TOPAZ PIPING INDUSTRIES	INDIA	
1.47.13	VAIBHAV FITTING INDIA PVT LTD	INDIA	
1.47.14	MAXELL FORGE INDUSTRIES	INDIA	
1.47.15	GAYATRI FORGE PVT LTD	INDIA	
1.47.16	K S PIPE FITTINGS PRIVATE LIMITED	INDIA	
1.47.17	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.48	FITTING BLOCK FORGED-ALLOY STEEL		
A	INDIAN BIDDERS		
1.48.1	CSA FITTINGS	INDIA	
1.48.2	EBY FASTENERS	INDIA	
1.48.3	FLASH FORGE PVT LTD	INDIA	
1.48.4	LEADER VALVES LTD	INDIA	
1.48.5	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.48.6	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.48.7	TOPAZ PIPING INDUSTRIES	INDIA	
1.48.8	VAIBHAV FITTING INDIA PVT LTD	INDIA	
1.48.9	MAXELL FORGE INDUSTRIES	INDIA	
1.48.10	GAYATRI FORGE PVT LTD	INDIA	
1.48.11	K S PIPE FITTINGS PRIVATE LIMITED	INDIA	
1.48.12	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.49	FITTING BLOCK FORGED-STAINLESS STEEL		
A	INDIAN BIDDERS		
1.49.1	CSA FITTINGS	INDIA	
1.49.2	EBY FASTENERS	INDIA	
1.49.3	FLASH FORGE PVT LTD	INDIA	
1.49.4	HILTON METAL FORGING LIMITED	INDIA	
1.49.5	LEADER VALVES LTD	INDIA	
1.49.6	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.49.7	VIJAY CYCLE & STEEL INDUSTRIES	INDIA	
1.49.8	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.49.9	TOPAZ PIPING INDUSTRIES	INDIA	
1.49.10	VAIBHAV FITTING INDIA PVT LTD	INDIA	

 IndianOil			
SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.49.11	MAXELL FORGE INDUSTRIES	INDIA	
1.49.12	GAYATRI FORGE PVT LTD	INDIA	
1.49.13	K S PIPE FITTINGS PRIVATE LIMITED	INDIA	
1.49.14	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.50	WELDOLETS/SOCKOLETS/ELBOWLET		
A	INDIAN BIDDERS		
1.50.1	CSA FITTINGS	INDIA	
1.50.2	EBY FASTENERS	INDIA	
1.50.3	FLASH FORGE PVT LTD	INDIA	
1.50.4	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.50.5	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.50.6	TOPAZ PIPING INDUSTRIES	INDIA	
1.50.7	TUBE TURN INDIA PVT LTD	INDIA	
1.50.8	C D ENGINEERING COMPANY	INDIA	Rev.8: Name Change
1.50.9	SAWAN ENGINEERS PVT LTD	INDIA	
1.50.10	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.50.11	VAIBHAV FITTING INDIA PVT LTD	INDIA	
1.50.12	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.51	FITTINGS BLOCK FORGED-EXOTIC MATLS. (HS CODE - 8108)		
A	INDIAN BIDDERS		
1.51.1	SAWAN ENGINEERS PVT LTD	INDIA	
1.52	FITTINGS FROM SEAMLESS PIPE-CARBON STEEL		
A	INDIAN BIDDERS		
1.52.1	CSA FITTINGS	INDIA	
1.52.2	DEE DEVELOPMENT ENGINEERS LIMITED	INDIA	
1.52.3	FITTECH INDUSTRIES PVT LTD	INDIA	
1.52.4	GAYATRI FORGE PVT LTD	INDIA	
1.52.5	GUJARAT INFRAPIPES PVT. LIMITED	INDIA	Rev:10 : Bidder addition
1.52.6	INTER-TECH FITTINGS INDIA PRIVATE LIMITED	INDIA	Rev.13: Name Updation
1.52.7	K S PIPE FITTINGS PRIVATE LIMITED	INDIA	
1.52.8	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.52.9	MAXELL FORGE INDUSTRIES	INDIA	
1.52.10	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.52.11	PARAS ENGINEERING WORKS (MUMBAI) PVT LTD	INDIA	
1.52.12	PATTECH FITWELL TUBE COMPONENTS	INDIA	
1.52.13	PETRO CHEM INDUSTRIES	INDIA	
1.52.14	SAWAN ENGINEERS PVT LTD	INDIA	
1.52.15	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.52.16	TEEKAY TUBES PVT LTD	INDIA	
1.52.17	TOPAZ PIPING INDUSTRIES	INDIA	
1.52.18	TUBE BEND (CALCUTTA) PVT LTD	INDIA	
1.52.19	TUBE INNOVATIVES (INDIA)	INDIA	Rev.8: Name Change
1.52.20	TUBES INDIA	INDIA	

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SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.52.21	TUBE TURN (INDIA) PVT LTD	INDIA	
1.52.22	U I PIPE FITTINGS PVT LTD	INDIA	
1.52.23	Peramount Forge & Fittings Private Limited	INDIA	Rev.6: New Addition
1.52.24	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.53	FITTINGS FROM SEAMLESS PIPE- ALLOY STEEL		
A	INDIAN BIDDERS		
1.53.1	CSA FITTINGS	INDIA	
1.53.2	DEE DEVELOPMENT ENGINEERS LIMITED	INDIA	
1.53.3	FITTECH INDUSTRIES PVT LTD	INDIA	
1.53.4	GUJARAT INFRAPIPES PVT. LIMITED	INDIA	Rev:10 : Bidder addition
1.53.5	INTER-TECH FITTINGS INDIA PRIVATE LIMITED	INDIA	Rev.13: Name Updation
1.53.6	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.53.7	PARAS ENGINEERING WORKS (MUMBAI) PVT LTD	INDIA	
1.53.8	SAWAN ENGINEERS PVT LTD	INDIA	
1.53.9	TEEKAY TUBES PVT LTD	INDIA	
1.53.10	TOPAZ PIPING INDUSTRIES	INDIA	
1.53.11	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.53.12	MAXELL FORGE INDUSTRIES	INDIA	
1.53.13	GAYATRI FORGE PVT LTD	INDIA	
1.53.14	K S PIPE FITTINGS PRIVATE LIMITED	INDIA	
1.53.15	TUBE INNOVATIVES (INDIA)	INDIA	Rev.8: Name Change
1.53.16	TUBES INDIA	INDIA	
1.53.17	TUBE TURN (INDIA) PVT LTD	INDIA	
1.53.18	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.54	FITTINGS FROM SEAMLESS PIPE- S.S.		
A	INDIAN BIDDERS		
1.54.1	CSA FITTINGS	INDIA	
1.54.2	DEE DEVELOPMENT ENGINEERS LIMITED	INDIA	
1.54.3	FITTECH INDUSTRIES PVT LTD	INDIA	
1.54.4	GUJARAT INFRAPIPES PVT. LIMITED	INDIA	Rev:10 : Bidder addition
1.54.5	INTER-TECH FITTINGS INDIA PRIVATE LIMITED	INDIA	Rev.13: Name Updation
1.54.6	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.54.7	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.54.8	PARAS ENGINEERING WORKS (MUMBAI) PVT LTD	INDIA	
1.54.9	PETRO CHEM INDUSTRIES	INDIA	
1.54.10	SAWAN ENGINEERS PVT LTD	INDIA	
1.54.11	TEEKAY TUBES PVT LTD	INDIA	
1.54.12	TOPAZ PIPING INDUSTRIES	INDIA	
1.54.13	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.54.14	MAXELL FORGE INDUSTRIES	INDIA	
1.54.15	GAYATRI FORGE PVT LTD	INDIA	
1.54.16	K S PIPE FITTINGS PRIVATE LIMITED	INDIA	
1.54.17	TUBE INNOVATIVES (INDIA)	INDIA	Rev.8: Name Change
1.54.18	TUBES INDIA	INDIA	


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SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
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M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.54.19	TUBE TURN (INDIA) PVT LTD	INDIA	
1.54.20	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.55	FITTINGS FROM S/LESS PIPES-EXOTIC MATLS (HS CODE - 8108)		
A	INDIAN BIDDERS		
1.55.1	SAWAN ENGINEERS PVT LTD	INDIA	
1.55.2	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.55.3	TOPAZ PIPING INDUSTRIES	INDIA	
1.56	FIITINGS CROSS-FROM SEAMLESS PIPES		
A	INDIAN BIDDERS		
1.56.1	GUJARAT INFRAPIPES PVT. LIMITED	INDIA	
1.56.2	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.57	FITTING-GRE		
1.58	FITTINGS TO IS-1239		
A	INDIAN BIDDERS		
1.58.1	CSA FITTINGS	INDIA	
1.58.2	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.58.3	NAVKAR FITTINGS & FORGINGS PVT LTD	INDIA	Rev.2: Name Change
1.58.4	VIJAY CYCLE & STEEL INDUSTRIES	INDIA	
1.58.5	PARAS ENGINEERING WORKS (MUMBAI) PVT LTD	INDIA	
1.58.6	TUBE INNOVATIVES (INDIA)	INDIA	Rev.8: Name Change
1.58.7	TUBES INDIA	INDIA	
1.58.8	TUBE TURN (INDIA) PVT LTD	INDIA	
1.58.9	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.59	FITTINGS FABRICATED FROM PLATE - C.S.		
A	INDIAN BIDDERS		
1.59.1	DEE DEVELOPMENT ENGINEERS LIMITED	INDIA	
1.59.2	GUJARAT INFRAPIPES PVT. LIMITED	INDIA	Rev.10 : Bidder addition
1.59.3	NAVKAR FITTINGS & FORGINGS PVT LTD	INDIA	Rev.2: Name Change
1.59.4	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.59.5	PARAS ENGINEERING WORKS (MUMBAI) PVT LTD	INDIA	
1.59.6	PETRO CHEM INDUSTRIES	INDIA	
1.59.7	SAWAN ENGINEERS PVT LTD	INDIA	
1.59.8	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.59.9	TEEKAY TUBES PVT LTD	INDIA	
1.59.10	TOPAZ PIPING INDUSTRIES	INDIA	
1.59.11	TUBE BEND (CALCUTTA) PVT LTD	INDIA	
1.59.12	TUBE INNOVATIVES (INDIA)	INDIA	Rev.8: Name Change
1.59.13	TUBES INDIA	INDIA	
1.59.14	TUBE TURN (INDIA) PVT LTD	INDIA	
1.59.15	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.60	FITTINGS FABRICATED FROM PLATE - A.S.		
A	INDIAN BIDDERS		

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SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.60.1	DEE DEVELOPMENT ENGINEERS LIMITED	INDIA	
1.60.2	GUJARAT INFRAPIPES PVT. LIMITED	INDIA	Rev:10 : Bidder addition
1.60.3	NAVKAR FITTINGS & FORGINGS PVT LTD	INDIA	Rev.2: Name Change
1.60.4	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.60.5	PARAS ENGINEERING WORKS (MUMBAI) PVT LTD	INDIA	
1.60.6	SAWAN ENGINEERS PVT LTD	INDIA	
1.60.7	TEEKAY TUBES PVT LTD	INDIA	
1.60.8	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.60.9	TOPAZ PIPING INDUSTRIES	INDIA	
1.60.10	TUBE INNOVATIVES (INDIA)	INDIA	Rev.8: Name Change
1.60.11	TUBES INDIA	INDIA	
1.60.12	TUBE TURN (INDIA) PVT LTD	INDIA	
1.60.13	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.61	FITTINGS FABRICATED FROM PLATE - S.S.		
A	INDIAN BIDDERS		
1.61.1	DEE DEVELOPMENT ENGINEERS LIMITED	INDIA	
1.61.2	GUJARAT INFRAPIPES PVT. LIMITED	INDIA	Rev:10 : Bidder addition
1.61.3	NAVKAR FITTINGS & FORGINGS PVT LTD	INDIA	Rev.2: Name Change
1.61.4	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.61.5	PARAS ENGINEERING WORKS (MUMBAI) PVT LTD	INDIA	
1.61.6	SAWAN ENGINEERS PVT LTD	INDIA	
1.61.7	TEEKAY TUBES PVT LTD	INDIA	
1.61.8	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.61.9	TOPAZ PIPING INDUSTRIES	INDIA	
1.61.10	TUBE INNOVATIVES (INDIA)	INDIA	Rev.8: Name Change
1.61.11	TUBES INDIA	INDIA	
1.61.12	TUBE TURN (INDIA) PVT LTD	INDIA	
1.61.13	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.62	FITTINGS FAB. FROM PLATES-EXOTIC MATLS. (HA CODE - 8108)		
A	INDIAN BIDDERS		
1.62.1	SAWAN ENGINEERS PVT LTD	INDIA	
1.63	FITTINGS PIPE CAP (C S)		
A	INDIAN BIDDERS		
1.63.1	CSA FITTINGS	INDIA	
1.63.2	DEE DEVELOPMENT ENGINEERS LIMITED	INDIA	
1.63.3	GUJARAT INFRAPIPES PVT. LIMITED	INDIA	Rev:10 : Bidder addition
1.63.4	K.S.PIPE FITTINGS (P) LTD	INDIA	
1.63.5	M.S. FITTINGS MFG. CO PVT LTD	INDIA	
1.63.6	NAVKAR FITTINGS & FORGINGS PVT LTD	INDIA	Rev.2: Name Change
1.63.7	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.63.8	PARAS ENGINEERING WORKS (MUMBAI) PVT LTD	INDIA	
1.63.9	PATTECH FITWELL TUBE COMPONENTS	INDIA	
1.63.10	PETRO CHEM INDUSTRIES	INDIA	
1.63.11	SAWAN ENGINEERS PVT LTD	INDIA	
1.63.12	TEEKAY TUBES PVT LTD	INDIA	

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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.63.13	TUBE BEND (CALCUTTA) PVT LTD	INDIA	
1.63.14	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.63.15	TOPAZ PIPING INDUSTRIES	INDIA	
1.63.16	TUBE INNOVATIVES (INDIA)	INDIA	Rev.8: Name Change
1.63.17	TUBES INDIA	INDIA	
1.63.18	TUBE TURN (INDIA) PVT LTD	INDIA	
1.63.19	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.64	FITTINGS PIPE CAP (A S)		
A	INDIAN BIDDERS		
1.64.1	CSA FITTINGS	INDIA	
1.64.2	DEE DEVELOPMENT ENGINEERS LIMITED	INDIA	
1.64.3	GUJARAT INFRAPIPES PVT. LIMITED	INDIA	Rev:10 : Bidder addition
1.64.4	NAVKAR FITTINGS & FORGINGS PVT LTD	INDIA	Rev.2: Name Change
1.64.5	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.64.6	PARAS ENGINEERING WORKS (MUMBAI) PVT LTD	INDIA	
1.64.7	SAWAN ENGINEERS PVT LTD	INDIA	
1.64.8	TEEKAY TUBES PVT LTD	INDIA	
1.64.9	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.64.10	TOPAZ PIPING INDUSTRIES	INDIA	
1.64.11	TUBE INNOVATIVES (INDIA)	INDIA	Rev.8: Name Change
1.64.12	TUBES INDIA	INDIA	
1.64.13	TUBE TURN (INDIA) PVT LTD	INDIA	
1.64.14	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.65	FITTINGS PIPE CAP (S S)		
A	INDIAN BIDDERS		
1.65.1	CSA FITTINGS	INDIA	
1.65.2	DEE DEVELOPMENT ENGINEERS LIMITED	INDIA	
1.65.3	GUJARAT INFRAPIPES PVT. LIMITED	INDIA	Rev:10 : Bidder addition
1.65.4	K.S.PIPE FITTINGS (P) LTD	INDIA	
1.65.5	NAVKAR FITTINGS & FORGINGS PVT LTD	INDIA	Rev.2: Name Change
1.65.6	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.65.7	PARAS ENGINEERING WORKS (MUMBAI) PVT LTD	INDIA	
1.65.8	PETRO CHEM INDUSTRIES	INDIA	
1.65.9	SAWAN ENGINEERS PVT LTD	INDIA	
1.65.10	TEEKAY TUBES PVT LTD	INDIA	
1.65.11	SIDHARTH & GAUTAM ENGINEERS	INDIA	
1.65.12	TOPAZ PIPING INDUSTRIES	INDIA	
1.65.13	TUBE INNOVATIVES (INDIA)	INDIA	Rev.8: Name Change
1.65.14	TUBES INDIA	INDIA	
1.65.15	TUBE TURN (INDIA) PVT LTD	INDIA	
1.65.16	REAL FORGE & FITTING	INDIA	Rev.7: New Addition
1.66	FITTINGS PIPE CAP (EXOTIC) (HS CODE - 8108)		
1.67	GASKET (IMPORTED)		
1.68	GASKET NON-ASBESTOS		

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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
A	INDIAN BIDDERS		
1.68.1	CHAMPION JOINTINGS PVT LTD.	INDIA	
1.68.2	DAVE ENGINEERS PVT.LTD	INDIA	
1.68.3	GOODRICH GASKET PVT LTD	INDIA	
1.68.4	IGP ENGINEERS PVT. LIMITED	INDIA	
1.68.5	JAMES WALKER INMARCO INDUSTREIS PVT. LTD	INDIA	
1.68.6	MADRAS INDUSTRIAL PRODUCTS	INDIA	
1.68.7	NEOSEAL ENGINEERING PRIVATE LIMITED	INDIA	Rev.7: Name Change
1.68.8	SEALANT AND GASKET INDIA PVT LTD	INDIA	
1.68.9	STARFLEX SEALING INDIA PVT LTD	INDIA	
1.68.10	UNI KLINGER LTD	INDIA	
1.69	GASKET METALLIC & SOFT IRON		
A	INDIAN BIDDERS		
1.69.1	GOODRICH GASKET PVT LTD	INDIA	
1.69.2	IGP ENGINEERS PVT. LIMITED	INDIA	
1.69.3	MADRAS INDUSTRIAL PRODUCTS	INDIA	
1.69.4	MICRO PRECISION PRODUCTS PVT LTD	INDIA	
1.69.5	STARFLEX SEALING INDIA PVT LTD	INDIA	
1.69.6	TEADIT PACKING AND GASKETS PVT LTD	INDIA	
1.70	GASKET METAL JACKETED		
A	INDIAN BIDDERS		
1.70.1	DAVE ENGINEERS PVT.LTD	INDIA	
1.70.2	GOODRICH GASKET PVT LTD	INDIA	
1.70.3	IGP ENGINEERS PVT. LIMITED	INDIA	
1.70.4	MADRAS INDUSTRIAL PRODUCTS	INDIA	
1.70.5	STARFLEX SEALING INDIA PVT LTD	INDIA	
1.70.6	TEEKAY FLOWFLEX PVT. LTD.	INDIA	
1.70.7	UNI KLINGER LTD	INDIA	
1.71	GASKET SPIRAL WOUND		
A	INDIAN BIDDERS		
1.71.1	BOMBAY CHEMICAL EQUIPMENTS	INDIA	
1.71.2	CHAMPION JOINTINGS PVT LTD.	INDIA	
1.71.3	DAVE ENGINEERS PVT.LTD	INDIA	
1.71.4	GOODRICH GASKET PVT LTD	INDIA	
1.71.5	IGP ENGINEERS PVT. LIMITED	INDIA	
1.71.6	JAMES WALKER INMARCO INDUSTREIS PVT. LTD	INDIA	
1.71.7	MADRAS INDUSTRIAL PRODUCTS	INDIA	
1.71.8	NEOSEAL ENGINEERING PRIVATE LIMITED	INDIA	Rev.7: Name Change
1.71.9	STARFLEX SEALING INDIA PVT LTD	INDIA	
1.71.10	TEADIT PACKING AND GASKETS PVT LTD	INDIA	
1.71.11	TEEKAY FLOWFLEX PVT. LTD.	INDIA	
1.71.12	UNI KLINGER LTD	INDIA	

 IndianOil			
SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.72	HOSE- RUBBER (STEAM/GAS/AIR/WATER/CHEM.)		
A	INDIAN BIDDERS		
1.72.1	DEWAS HYDROQUIP PVT LTD	INDIA	
1.72.2	GAYTRI INDUSTRIAL CORPORATION	INDIA	
1.72.3	HELIFLEX HYDRAULICS & ENGG.CO.	INDIA	
1.72.4	INSAP ENGINEERS PVT. LTD	INDIA	
1.72.5	PIX TRANSMISSIONS LIMITED	INDIA	
1.72.6	RM APPLIED ENGINEERS	INDIA	
1.72.7	SRIDHAR ENGG. & RUBER PRODUCTS PVT LTD.	INDIA	
1.72.8	ROYAL INDIA CORP. / JRE PRIVATE LIMITED	INDIA	Rev.13: NAME UPDATION
1.72.9	INDIA FLEX INDUSTRIES PVT LTD.	INDIA	Rev-4 : Bidder Addition
1.73	HOSE METALLIC FLEXIBLE SS		
A	INDIAN BIDDERS		
1.73.1	BENGAL INDUSTRIES PVT LTD	INDIA	
1.73.2	DEWAS HYDROQUIP PVT LTD	INDIA	
1.73.3	GAYTRI INDUSTRIAL CORPORATION	INDIA	
1.73.4	HELIFLEX HYDRAULICS & ENGG.CO.	INDIA	
1.73.5	INDIA FLEX INDUSTRIES PVT LTD.	INDIA	
1.73.6	INSAP ENGINEERS PVT. LTD	INDIA	
1.73.7	RM APPLIED ENGINEERS	INDIA	
1.73.8	SENIOR INDIA PRIVATE LIMITED	INDIA	
1.74	FASTENERS		
A	INDIAN BIDDERS		
1.74.1	AEPCOM FASTENERS PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.74.2	DEEPAK FASTENERS LIMITED (DORAHA UNIT)	INDIA	
1.74.3	FASTENERS & ALLIED PRODUCTS PVT LTD.	INDIA	
1.74.4	FIX FIT FASTENERS MFG. PVT.LTD.	INDIA	
1.74.5	HARDWIN FASTENERS PVT LTD.	INDIA	
1.74.6	HEM INDUSTRIES	INDIA	
1.74.7	INDUSTRIAL ENGINEERING CORP.	INDIA	
1.74.8	KUNDAN INDUSTRIES LTD.	INDIA	
1.74.9	LAKSHMI PRECISION SCREWS LTD	INDIA	Rev.13: Name Updation
1.74.10	MEGA ENGINEERING PVT. LTD.	INDIA	
1.74.11	MULTI FASTNERS PRIVATE LIMITED	INDIA	Rev.13: Name Updation
1.74.12	NITIN FASTNERS PVT LTD	INDIA	
1.74.13	PANKAJ INTERNATIONAL	INDIA	
1.74.14	PIONEER NUTS & BOLTS PVT LTD	INDIA	
1.74.15	PRECISION AUTO ENGINEERS	INDIA	
1.74.16	PRECISION ENGG. INDUSTRIES	INDIA	
1.74.17	PRESIDENT ENGINEERING WORKS	INDIA	
1.74.18	PROCYON TECHNOLOGY	INDIA	Rev.13: Name Updation
1.74.19	SAVETA ENGINEERING CO.PVT.LTD.	INDIA	
1.74.20	SOUVENIR INTERNATIONAL	INDIA	
1.74.21	SYNDICATE ENGINEERING INDUSTRIES	INDIA	

 IndianOil			
SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
DOCUMENT TITLE :- PROJECT MASTER SUPPLIER LIST (PMSL)-IOCL-2020		REV :	16
M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.74.22	UDEHRA FASTENERS LIMITED	INDIA	Rev.7: Name Change
1.74.23	UDEHRA MECHANICAL WORKS	INDIA	
1.75	FASTENERS:HIGH TEMPERATURE TO A 453		
A	INDIAN BIDDERS		
1.75.1	FASTENERS & ALLIED PRODUCTS PVT LTD.	INDIA	
1.75.2	PRESIDENT ENGINEERING WORKS	INDIA	
1.75.3	SYNDICATE ENGINEERING INDUSTRIES	INDIA	
1.76	EXPANSION JOINTS (RUBBER)		
A	INDIAN BIDDERS		
1.76.1	CORI ENGINEERS PVT LTD	INDIA	
1.76.2	MIL INDUSTRIES LIMITED	INDIA	
1.76.3	RM APPLIED ENGINEERS	INDIA	
1.76.4	SRM EXOFLEX PVT. LTD.	INDIA	
1.76.5	FLEXOCON ENGINEERS PVT LTD	INDIA	
1.76.6	RRD DECORS PVT LTD	INDIA	
1.77	SPRING SUPPORTS		
A	INDIAN BIDDERS		
1.77.1	AAA SUPPORTS PVT. LTD.,VADODARA	INDIA	
1.77.2	ACME PROCESS SYSTEMS PVT LTD.	INDIA	
1.77.3	PIPE HANGERS & SUPPORTS PVT LTD	INDIA	
1.77.4	PIPE SUPPORTS CO	INDIA	
1.77.5	PIPING & ENERGY PRODUCTS (P) LTD	INDIA	
1.77.6	PROCYON TECHNO INDUSTRY	INDIA	
1.77.7	SARATHI ENGINEERING ENTERPRISES PVT LTD.	INDIA	
1.77.8	SPRING SUPPORTS MFG CO	INDIA	
1.77.9	HASAN TECHNO INDUSTRY PVT LTD	INDIA	Rev-9 : Name Change
1.77.10	TECHNO SPRINGS INDIA PVT LTD	INDIA	
1.77.11	CARPENTER & PATERSON INDIA PRIVATE LTD	INDIA	Rev-12 : ADDITION
1.77.12	BERGEN PIPE SUPPORTS INDIA PRIVATE LIMITED	INDIA	Rev-15 : Bidder Addition
1.78	STRAINERS		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
1.79	STRAINERS (FAB/CAST/FORGED)		
A	INDIAN BIDDERS		
1.79.1	BOMBAY CHEMICAL EQUIPMENTS	INDIA	
1.79.2	ESCO STEAMCON PVT. LTD.	INDIA	
1.79.3	FORBES MARSHALL PRIVATE LIMITED	INDIA	Rev.2: Name Change
1.79.4	GRAND PRIX ENGINEERING PVT LTD.	INDIA	
1.79.5	GUJARAT OTOFILT	INDIA	
1.79.6	LEADER VALVES LTD	INDIA	
1.79.7	MULTITEX FILTRATION ENGINEERS LTD.	INDIA	
1.79.8	PENNANT ENGINEERING PVT LTD	INDIA	
1.79.9	SUNGOV ENGINEERING PVT LTD	INDIA	

			
SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.80	STEAM TRAPS-BUCKET/TH.DYN/TH.STAT/FLOAT		
A	INDIAN BIDDERS		
1.80.1	ARMSTRONG INTERNATIONAL PVT LTD.	INDIA	
1.80.2	ESCO STEAMCON PVT. LTD.	INDIA	
1.80.3	FORBES MARSHALL PRIVATE LIMITED	INDIA	Rev.2: Name Change
1.80.4	LEADER VALVES LTD	INDIA	
1.80.5	PENNANT ENGINEERING PVT LTD	INDIA	
1.80.6	UNI KLINGER LTD	INDIA	
1.81	COMPACT STEAM TRAPING ASSY+SS/CR MANFOLD		
A	INDIAN BIDDERS		
1.81.1	ARMSTRONG INTERNATIONAL PVT LTD.	INDIA	
1.81.2	FORBES MARSHALL PRIVATE LIMITED	INDIA	Rev.2: Name Change
1.81.3	UNI KLINGER LTD	INDIA	
1.82	STEAM TRAPS		Rev.4: Cat. Deleted
1.83	STEAM SUPPLY / COND. RECOVERY MANIFOLD		
A	INDIAN BIDDERS		
1.83.1	ARMSTRONG INTERNATIONAL PVT LTD.	INDIA	
1.83.2	FORBES MARSHALL PRIVATE LIMITED	INDIA	Rev.2: Name Change
1.83.3	UNI KLINGER LTD	INDIA	
1.84	VALVE GATE (THRU CONDUIT) (AP16D)		
A	INDIAN BIDDERS		
1.84.1	EMERSON PROCESS MANAGEMENT (INDIA) PVT LTD	INDIA	Rev.1: Name Change
1.85	VALVE GATE-(FOREIGN SUPPLIERS)		
A	INDIAN BIDDERS		
1.85.1	VELAN VALVES INDIA PVT LTD	INDIA	Rev.10: Name Update
1.85.2	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.13 Name Deletion
1.86	VALVE GATE CAST		
A	INDIAN BIDDERS		
1.86.1	AMPO VALVES INDIA PVT LTD	INDIA	
1.86.3	ASSOCIATED TOOLINGS INDIA PVT LTD	INDIA	Rev.13 Name Deletion
1.86.4	AV VALVES LIMITED	INDIA	
1.86.5	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.86.6	GRI PUMPS PVT LTD (UNIT VALVES)	INDIA	Rev.15 Name Deletion
1.86.7	EXPERT VALVE AND EQUIPMENT PRIVATE LIMITED	INDIA	Rev.11: Name Updation
1.86.8	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.13 Name Deletion
1.86.9	FLUIDLINE VALVES CO.PVT LTD	INDIA	
1.86.10	FORWARD ALLOYS & CASTINGS	INDIA	
1.86.11	FOURESS ENGINEERING (INDIA) PRIVATE LIMITED	INDIA	Rev-12 : Name Updation
1.86.12	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.86.13	HAWA ENGINEERS LTD	INDIA	
1.86.14	INTERVALVE POONAWALLA LIMITED	INDIA	
1.86.15	KSB LIMITED	INDIA	Rev-12 : Name Updation
1.86.16	L & T VALVES LIMITED	INDIA	
1.86.17	LEADER VALVES LTD	INDIA	
1.86.18	MH VALVES PVT LTD.	INDIA	
1.86.19	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	
1.86.20	NILON VALVES PRIVATE LIMITED	INDIA	
1.86.21	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.86.22	NSSL PVT. LTD. (NECO SCHUBERT & SALZER)	INDIA	
1.86.23	OSWAL INDUSTRIES LTD	INDIA	
1.86.24	PANCHVATI VALVES & FLANGES PVT LTD	INDIA	
1.86.25	PEE INDUSTRIAL VALVES PVT. LTD.	INDIA	
1.86.26	SAKHI ENGINEERS PVT. LTD.	INDIA	
1.86.27	SHALIMAR VALVES PVT LTD	INDIA	
1.86.28	SHAYBURG VALVES PVT LTD	INDIA	
1.86.29	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.86.30	T.S. PUMPS AND VALVES PVT.LTD	INDIA	
1.86.31	VALTECH INDUSTRIES	INDIA	
1.86.32	VELAN VALVES INDIA PVT LTD	INDIA	
1.86.33	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.86.34	XOMOX SANMAR LTD-PACIFIC VALVES DIVISION	INDIA	
1.86.35	NUTECH CONTROLS	INDIA	
1.86.36	FLOTEK INDUSTRIES	INDIA	Rev.1: Addition
1.87	VALVE GATE CRYOGENIC CAST		
A	INDIAN BIDDERS		
1.87.1	L & T VALVES LIMITED	INDIA	
1.87.2	LEADER VALVES LTD	INDIA	
1.87.3	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.87.4	NSSL PVT. LTD. (NECO SCHUBERT & SALZER)	INDIA	
1.87.5	OSWAL INDUSTRIES LTD	INDIA	
1.87.6	PANCHVATI VALVES & FLANGES PVT LTD	INDIA	
1.87.7	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.87.8	VELAN VALVES INDIA PVT LTD	INDIA	Rev.10: Name Update
1.87.9	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.88	VALVE GATE FORGED		
A	INDIAN BIDDERS		
1.88.1	ASSOCIATED TOOLINGS INDIA PVT LTD	INDIA	
1.88.2	AUTOCAP INDUSTRIES	INDIA	
1.88.3	AV VALVES LIMITED	INDIA	
1.88.4	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.88.5	FLUIDLINE VALVES CO.PVT LTD	INDIA	
1.88.6	G M VALVE PRIVATE LIMITED	INDIA	Rev.11: Name Change
1.88.7	HAWA ENGINEERS LTD	INDIA	



SECTION-B BULK PIPING ITEMS			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.88.8	INTERVALVE POONAWALLA LIMITED	INDIA	
1.88.9	KSB LIMITED	INDIA	Rev-12 : Name Updation
1.88.10	L & T VALVES LIMITED	INDIA	
1.88.11	LEADER VALVES LTD	INDIA	
1.88.12	MH VALVES PVT LTD.	INDIA	
1.88.13	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	
1.88.14	NITON VALVE INDUSTRIES PRIVATE LTD.	INDIA	
1.88.15	NSSL PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.88.16	OSWAL INDUSTRIES LTD	INDIA	
1.88.17	PANCHVATI VALVES & FLANGES PVT LTD	INDIA	
1.88.18	PEE INDUSTRIAL VALVES PVT. LTD.	INDIA	
1.88.19	SHALIMAR VALVES PVT LTD	INDIA	
1.88.20	SHAYBURG VALVES PVT LTD	INDIA	
1.88.21	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.88.22	VEE TECH VALVES PRIVATE LIMITED	INDIA	
1.88.23	VELAN VALVES INDIA PVT LTD	INDIA	
1.88.24	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.88.25	RASAI FLOW LINES PVT LTD.	INDIA	
1.88.26	JMD ENGINEERING	INDIA	
1.88.27	NUTECH CONTROLS	INDIA	
1.88.28	FLOTEK INDUSTRIES	INDIA	Rev.15: New Addition
1.89	VALVE GATE CRYOGENIC FORGED		
A	INDIAN BIDDERS		
1.89.1	ASSOCIATED TOOLINGS INDIA PVT LTD	INDIA	
1.89.2	L & T VALVES LIMITED	INDIA	
1.89.3	LEADER VALVES LTD	INDIA	
1.89.4	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.89.5	OSWAL INDUSTRIES LTD	INDIA	
1.89.6	PANCHVATI VALVES & FLANGES PVT LTD	INDIA	
1.89.7	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.89.8	VELAN VALVES INDIA PVT LTD	INDIA	
1.89.9	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.90	VALVE GATE GUNMETAL/BRASS/BRONZE		
A	INDIAN BIDDERS		
1.90.1	AV VALVES LIMITED	INDIA	
1.90.2	H. SARKER & COMPANY VALVES PVT LTD	INDIA	Rev.4: Name Updation
1.90.3	LEADER VALVES LTD	INDIA	
1.90.4	SANT VALVES PVT LTD	INDIA	
1.90.5	ZOLOTO INDUSTRIES	INDIA	
1.90.6	VALVINOX S.R.L. INDIA PVT. LTD	INDIA	Rev.15: Name Addition
1.91	VALVE GATE (MOTOR OPERATED)		
A	INDIAN BIDDERS		
1.91.1	AMPO VALVES INDIA PVT LTD	INDIA	

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M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.91.2	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.91.3	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.13 Name Deletion
1.91.4	FLUIDLINE VALVES CO.PVT LTD	INDIA	
1.91.5	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022
1.91.6	INTERVALVE POONAWALLA LIMITED	INDIA	
1.91.7	KSB LIMITED	INDIA	Rev-12 : Name Updation
1.91.8	L & T VALVES LIMITED	INDIA	
1.91.9	LEADER VALVES LTD	INDIA	
1.91.10	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.91.11	NSSL PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.91.12	OSWAL INDUSTRIES LTD	INDIA	
1.91.13	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.91.14	VELAN VALVES INDIA PVT LTD	INDIA	
1.91.15	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.91.16	XOMOX SANMAR LTD-PACIFIC VALVES DIVISION	INDIA	
1.92	VALVE KNIFE GATE		
A	INDIAN BIDDERS		
1.92.1	BRAY CONTROLS INDIA PVT. LTD.	INDIA	
1.92.2	EXPERT VALVE AND EQUIPMENT PRIVATE LIMITED	INDIA	Rev.11: Name Updation
1.92.3	JASH ENGINEERING LTD.	INDIA	
1.92.4	MICROFINISH VALVES PVT LIMITED	INDIA	
1.92.5	VAAS INDUSTRIES PVT LTD	INDIA	
1.93	VALVE GLOBE-(FOREIGN SUPPLIERS)		
A	INDIAN BIDDERS		
1.93.1	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.13 Name Deletion
1.93.2	VELAN VALVES INDIA PVT LTD	INDIA	Rev.10: Name Update
1.94	VALVE GLOBE CAST		
A	INDIAN BIDDERS		
1.94.1	AMPO VALVES INDIA PVT LTD	INDIA	
1.94.2	AV VALVES LIMITED	INDIA	
1.94.3	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.94.4	GRI PUMPS PVT LTD (UNIT VALVES)	INDIA	Rev.15 Name Deletion
1.94.5	EXPERT VALVE AND EQUIPMENT PRIVATE LIMITED	INDIA	Rev.11: Name Updation
1.94.6	FLUIDLINE VALVES CO.PVT LTD	INDIA	
1.94.7	FORWARD ALLOYS & CASTINGS	INDIA	
1.94.8	FOURESS ENGINEERING (INDIA) PRIVATE LIMITED	INDIA	Rev-12 : Name Updation
1.94.9	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022
1.94.10	HAWA ENGINEERS LTD	INDIA	
1.94.11	INTERVALVE POONAWALLA LIMITED	INDIA	
1.94.12	KSB LIMITED	INDIA	Rev-12 : Name Updation
1.94.13	L & T VALVES LIMITED	INDIA	
1.94.14	LEADER VALVES LTD	INDIA	
1.94.15	MH VALVES PVT LTD.	INDIA	



SECTION-B BULK PIPING ITEMS			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.94.16	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	
1.94.17	NILON VALVES PRIVATE LIMITED	INDIA	
1.94.18	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.94.19	NSSL PVT. LTD. (NECO SCHUBERT & SALZER)	INDIA	
1.94.20	OSWAL INDUSTRIES LTD	INDIA	
1.94.21	PANCHVATI VALVES & FLANGES PVT LTD	INDIA	
1.94.22	PEE INDUSTRIAL VALVES PVT. LTD.	INDIA	
1.94.23	SAKHI ENGINEERS PVT. LTD.	INDIA	
1.94.24	SHALIMAR VALVES PVT LTD	INDIA	
1.94.25	SHAYBURG VALVES PVT LTD	INDIA	
1.94.26	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.94.27	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.94.28	XOMOX SANMAR LTD-PACIFIC VALVES DIVISION	INDIA	
1.94.29	NUTECH CONTROLS	INDIA	
1.94.30	FLOTEK INDUSTRIES	INDIA	
1.95	VALVE GLOBE CRYOGENIC CAST		
A	INDIAN BIDDERS		
1.95.1	L & T VALVES LIMITED	INDIA	
1.95.2	LEADER VALVES LTD	INDIA	
1.95.3	NITON VALVE INDUSTRIES PRIVATE LTD.	INDIA	
1.95.4	NSSL PVT. LTD. (NECO SCHUBERT & SALZER)	INDIA	
1.95.5	OSWAL INDUSTRIES LTD	INDIA	
1.95.6	PANCHVATI VALVES & FLANGES PVT LTD	INDIA	
1.95.7	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.95.8	VELAN VALVES INDIA PVT LTD	INDIA	Rev.10: Name Update
1.95.9	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.95.10	FLOTEK INDUSTRIES	INDIA	Rev.15: New Addition
1.96	VALVE GLOBE FORGED		
A	INDIAN BIDDERS		
1.96.1	ASSOCIATED TOOLINGS INDIA PVT LTD	INDIA	
1.96.2	AUTOCAP INDUSTRIES	INDIA	
1.96.3	AV VALVES LIMITED	INDIA	
1.96.4	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.96.5	<u>FLOWSERVE INDIA CONTROLS PVT LTD</u>	<u>INDIA</u>	Rev.13 Name Deletion
1.96.6	FLUIDLINE VALVES CO.PVT LTD	INDIA	
1.96.7	G M VALVE PRIVATE LIMITED	INDIA	Rev.3: Name Change
1.96.8	HAWA ENGINEERS LTD	INDIA	
1.96.9	INTERVALVE POONAWALLA LIMITED	INDIA	
1.96.10	KSB LIMITED	INDIA	Rev-12 : Name Updation
1.96.11	L & T VALVES LIMITED	INDIA	
1.96.12	LEADER VALVES LTD	INDIA	
1.96.13	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	
1.96.14	NITON VALVE INDUSTRIES PRIVATE LTD.	INDIA	
1.96.15	OSWAL INDUSTRIES LTD	INDIA	

			
SECTION-B BULK PIPING ITEMS		Doc. No.	IOCL-MSL-2020
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.96.16	PANCHVATI VALVES & FLANGES PVT LTD	INDIA	
1.96.17	PEE INDUSTRIAL VALVES PVT. LTD.	INDIA	
1.96.18	FORBES MARSHALL PRIVATE LIMITED	INDIA	Rev. 11: Name Change
1.96.19	SHALIMAR VALVES PVT LTD	INDIA	
1.96.20	SHAYBURG VALVES PVT LTD	INDIA	
1.96.21	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.96.22	VEE TECH VALVES PRIVATE LIMITED	INDIA	
1.96.23	VELAN VALVES INDIA PVT LTD	INDIA	
1.96.24	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.96.25	NUTECH CONTROLS	INDIA	
1.96.26	JMD ENGINEERING	INDIA	Rev.1: Name Change
1.96.27	FLOTEK INDUSTRIES	INDIA	Rev.15: New Addition
1.97	VALVE GLOBE CRYOGENIC FORGED		
A	INDIAN BIDDERS		
1.97.1	ASSOCIATED TOOLINGS INDIA PVT LTD	INDIA	
1.97.2	L & T VALVES LIMITED	INDIA	
1.97.3	LEADER VALVES LTD	INDIA	
1.97.4	NITON VALVE INDUSTRIES PRIVATE LTD.	INDIA	
1.97.5	OSWAL INDUSTRIES LTD	INDIA	
1.97.6	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.97.7	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.98	VALVE GLOBE GUNMETAL/BRASS/BRONZE		
A	INDIAN BIDDERS		
1.98.1	AV VALVES LIMITED	INDIA	
1.98.2	H. SARKER & COMPANY VALVES PVT LTD	INDIA	Rev.4: Name Updation
1.98.3	LEADER VALVES LTD	INDIA	
1.98.4	SANT VALVES PVT LTD	INDIA	
1.99	Y TYPE GLOBE & STOP CHECK VALVES		
A	INDIAN BIDDERS		
1.99.1	AMPO VALVES INDIA PVT LTD	INDIA	
1.99.2	<u>FLOWSERVE INDIA CONTROLS PVT LTD</u>	<u>INDIA</u>	Rev.13 Name Deletion
1.99.3	L & T VALVES LIMITED	INDIA	
1.99.4	NITON VALVE INDUSTRIES PRIVATE LTD.	INDIA	
1.99.5	SchuF Speciality valves INDIA Pvt Ltd	INDIA	
1.99.6	VELAN VALVES INDIA PVT LTD	INDIA	
1.100	VALVE- BLOWDOWN (Straight/Angle Pattern)		
A	INDIAN BIDDERS		
1.100.1	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.100.2	INSTRUMENTATION LTD	INDIA	Rev.1: Name Change
1.100.3	EMERSON PROCESS MANAGEMENT (INDIA) PVT LTD	INDIA	Rev.1: Name Change
1.100.4	SCHUF SPECIALITY VALVES INDIA PVT LTD	INDIA	
1.100.5	FORBES MARSHALL PRIVATE LIMITED	INDIA	Rev. 11: Name Change

 IndianOil			
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M/s. INDIAN OIL CORPORATION LIMITED (IOCL)		Date :	01-Jan-22
COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.100.6	YARWAY CORPORATION	INDIA	
1.101	VALVE CHECK- (FOREIGN SUPPLIERS)		
A	INDIAN BIDDERS		
1.101.1	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.13 Name Deletion
1.101.2	VELAN VALVES INDIA PVT LTD	INDIA	Rev.10: Name Update
1.102	VALVE CHECK CAST		
A	INDIAN BIDDERS		
1.102.1	AMPO VALVES INDIA PVT LTD	INDIA	
1.102.2	AV VALVES LIMITED	INDIA	
1.102.3	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.102.4	GRI PUMPS PVT LTD (UNIT VALVES)	INDIA	Rev.15 Name Deletion
1.102.5	FLUIDLINE VALVES CO.PVT LTD	INDIA	
1.102.6	FORWARD ALLOYS & CASTINGS	INDIA	
1.102.7	FOURESS ENGINEERING (INDIA) PRIVATE LIMITED	INDIA	Rev-12 : Name Updation
1.102.8	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022
1.102.9	HAWA ENGINEERS LTD	INDIA	
1.102.10	INTERVALVE POONAWALLA LIMITED	INDIA	
1.102.11	KSB LIMITED	INDIA	Rev-12 : Name Updation
1.102.12	L & T VALVES LIMITED	INDIA	
1.102.13	LEADER VALVES LTD	INDIA	
1.102.14	MH VALVES PVT LTD.	INDIA	
1.102.15	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	
1.102.16	NILON VALVES PRIVATE LIMITED	INDIA	
1.102.17	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.102.18	NSSL PVT. LTD. (NECO SCHUBERT & SALZER)	INDIA	
1.102.19	OMKAR VALVES PVT LTD	INDIA	Rev-11 : Name Updation
1.102.20	OSWAL INDUSTRIES LTD	INDIA	
1.102.21	PANCHVATI VALVES & FLANGES PVT LTD	INDIA	
1.102.22	PEE INDUSTRIAL VALVES PVT. LTD.	INDIA	
1.102.23	SAKHI ENGINEERS PVT. LTD.	INDIA	
1.102.24	SHALIMAR VALVES PVT LTD	INDIA	
1.102.25	SHAYBURG VALVES PVT LTD	INDIA	
1.102.26	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.102.27	T.S. PUMPS AND VALVES PVT.LTD	INDIA	
1.102.28	VELAN VALVES INDIA PVT LTD	INDIA	
1.102.29	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.102.30	XOMOX SANMAR LTD-PACIFIC VALVES DIVISION	INDIA	
1.102.31	NUTECH CONTROLS	INDIA	
1.102.32	FLOTEK INDUSTRIES	INDIA	Rev.6: Country Change
1.103	VALVE CHECK CRYOGENIC CAST		
A	INDIAN BIDDERS		
1.103.1	L & T VALVES LIMITED	INDIA	
1.103.2	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.103.3	NSSL PVT. LTD. (NECO SCHUBERT & SALZER)	INDIA	
1.103.4	OSWAL INDUSTRIES LTD	INDIA	
1.103.5	PANCHVATI VALVES & FLANGES PVT LTD	INDIA	
1.103.6	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.103.7	VELAN VALVES INDIA PVT LTD	INDIA	Rev.10: Name Update
1.103.8	LEADER VALVES	INDIA	
1.104	VALVE CHECK FORGED		
A	INDIAN BIDDERS		
1.104.1	ASSOCIATED TOOLINGS INDIA PVT LTD	INDIA	
1.104.2	AUTOCAP INDUSTRIES	INDIA	
1.104.3	AV VALVES LIMITED	INDIA	
1.104.4	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.104.5	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.13 Name Deletion
1.104.6	FLUIDLINE VALVES CO.PVT LTD	INDIA	
1.104.7	G M VALVE PRIVATE LIMITED	INDIA	Rev.11: Name Change
1.104.8	HAWA ENGINEERS LTD	INDIA	
1.104.9	INTERVALVE POONAWALLA LIMITED	INDIA	
1.104.10	KSB LIMITED	INDIA	Rev-12 : Name Updation
1.104.11	L & T VALVES LIMITED	INDIA	
1.104.12	LEADER VALVES LTD	INDIA	
1.104.13	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	
1.104.14	NITON VALVE INDUSTRIES PRIVATE LTD.	INDIA	
1.104.15	NSSL PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.104.16	OMKAR VALVES PVT LTD	INDIA	Rev-11 : Name Updation
1.104.17	OSWAL INDUSTRIES LTD	INDIA	
1.104.18	PANCHVATI VALVES & FLANGES PVT LTD	INDIA	
1.104.19	PEE INDUSTRIAL VALVES PVT. LTD.	INDIA	
1.104.20	SHALIMAR VALVES PVT LTD	INDIA	
1.104.21	SHAYBURG VALVES PVT LTD	INDIA	
1.104.22	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.104.23	VEE TECH VALVES PRIVATE LIMITED	INDIA	
1.104.24	VELAN VALVES INDIA PVT LTD	INDIA	
1.104.25	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.104.26	NUTECH CONTROLS	INDIA	
1.104.27	JMD ENGINEERING	INDIA	Rev.4: Name Updation
1.104.28	FLOTEK INDUSTRIES	INDIA	Rev.15: New Addition
1.105	VALVE CHECK CRYOGENIC FORGED		
A	INDIAN BIDDERS		
1.105.1	ASSOCIATED TOOLINGS INDIA PVT LTD	INDIA	
1.105.2	LEADER VALVES LTD	INDIA	
1.105.3	OSWAL INDUSTRIES LTD	INDIA	
1.105.4	STEEL STRONG VALVES INDIA PVT LTD	INDIA	
1.106	VALVE CHECK GUNMETAL/BRASS/BRONZE		

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
A	INDIAN BIDDERS		
1.106.1	AV VALVES LIMITED	INDIA	
7.106.2	H. SARKER & COMPANY VALVES PVT LTD	INDIA	Rev.4: Name Updation
7.106.3	LEADER VALVES LTD	INDIA	
7.106.4	SANT VALVES PVT LTD	INDIA	
7.106.5	ATAM VALVES PVT LTD	INDIA	
7.106.6	ZOLOTO INDUSTRIES	INDIA	
1.107	VALVE CHECK (DUAL PLATE TYPE)		
A	INDIAN BIDDERS		
1.107.1	ADVANCE VALVES PVT LTD.	INDIA	
1.107.2	FLOVEL VALVES PVT.LTD.	INDIA	
1.107.3	LEADER VALVES LTD	INDIA	
1.107.4	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.107.5	OMKAR VALVES PVT LTD	INDIA	Rev-11 : Name Updation
1.107.6	SHALIMAR VALVES PVT LTD	INDIA	
1.107.7	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	
1.107.8	FLOTEK INDUSTRIES	INDIA	Rev.15: New Addition
1.108	VALVE CHECK EXCESS FLOW		
A	INDIAN BIDDERS		
1.108.1	CHANDRA ENGG. & MECH PVT LTD.	INDIA	
1.109	VALVE-NON SLAM CHECK (NOZZLE)		
A	INDIAN BIDDERS		
1.109.1	FLOVEL VALVES PVT.LTD.	INDIA	
1.110	VALVE BALL-(FOREIGN SUPPLIERS)		
1.111	VALVE BALL CRYOGENIC		
A	INDIAN BIDDERS		
1.111.1	BELGAUM AQUA VALVES PVT. LTD.	INDIA	
1.111.2	MICROFINISH VALVES PVT LIMITED	INDIA	
1.111.3	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.112	VALVE BALL NON FIRE SAFE-CCS		
A	INDIAN BIDDERS		
1.112.1	AMPO VALVES INDIA PVT LTD	INDIA	Rev.2: Name Change
1.112.2	ANAND TEKNOVA AIDS ENGINEERING INDIA LTD	INDIA	
1.112.3	AQUA CONTROL VAVES PVT LTD	INDIA	
1.112.4	BELGAUM AQUA VALVES PVT. LTD.	INDIA	
1.112.5	BRAY CONTROLS INDIA PVT LTD	INDIA	
1.112.6	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.112.7	DEMBLA VALVES LTD.	INDIA	

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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.112.8	FLOW CHEM INDUSTRIES	INDIA	
1.112.9	FLOWJET VAVES PVT LTD	INDIA	
1.112.10	FLUIDLINE VALVES CO.PVT LTD	INDIA	
1.112.11	FRANZ SCHUCK GMBH (FORMERLY BORSIG - B506)	INDIA	Rev.9:Country Change
1.112.12	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022
1.112.13	HAWA ENGINEERS LTD	INDIA	
1.112.14	INTERVALVE POONAWALLA LIMITED	INDIA	
1.112.15	L & T VALVES LIMITED	INDIA	
1.112.16	LEADER VALVES LTD	INDIA	
1.112.17	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022
1.112.18	MEVADA ENGG.WORKS PVT LTD	INDIA	
1.112.19	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	
1.112.20	MICROFINISH VALVES PVT LIMITED	INDIA	
1.112.21	NITON VALVE INDUSTRIES PRIVATE LTD.	INDIA	
1.112.22	NSSL PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.112.23	OSWAL INDUSTRIES LTD	INDIA	
1.112.24	RAPPID VALVES INDIA PVT LTD	INDIA	
1.112.25	REYNOLD VALVES LTD	INDIA	
1.112.26	SHALIMAR VALVES PVT LTD	INDIA	
1.112.27	SHAYBURG VALVES PVT LTD	INDIA	
1.112.28	VAAS AUTOMATION PVT LTD	INDIA	
1.112.29	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.112.30	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.112.31	DEMBLA VALVES LIMITED	INDIA	
1.112.32	ANAND TEKNOVA AIDS ENGINEERING INDIA LTD.	INDIA	
1.113	VALVE BALL NON FIRE SAFE-CSS		
A	INDIAN BIDDERS		
1.113.1	ANAND TEKNOVA AIDS ENGINEERING INDIA LTD	INDIA	
1.113.2	AQUA CONTROL VAVES PVT LTD	INDIA	
1.113.3	BELGAUM AQUA VALVES PVT. LTD.	INDIA	
1.113.4	BRAY CONTROLS INDIA PVT LTD	INDIA	
1.113.5	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.113.6	DEMBLA VALVES LIMITED	INDIA	
1.113.7	FLOW CHEM INDUSTRIES	INDIA	
1.113.8	FLOWJET VAVES PVT LTD	INDIA	
1.113.9	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022
1.113.10	HAWA ENGINEERS LTD	INDIA	
1.113.11	INTERVALVE POONAWALLA LIMITED	INDIA	
1.113.12	L & T VALVES LIMITED	INDIA	
1.113.13	LEADER VALVES LTD	INDIA	
1.113.14	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022
1.113.15	MEVADA ENGG.WORKS PVT LTD	INDIA	
1.113.16	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	



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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.113.17	MICROFINISH VALVES PVT LIMITED	INDIA	
1.113.18	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.113.19	NSSL PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.113.20	OSWAL INDUSTRIES LTD	INDIA	
1.113.21	RAPPID VALVES INDIA PVT LTD	INDIA	
1.113.22	REYNOLD VALVES LTD	INDIA	
1.113.23	SHAYBURG VALVES PVT LTD	INDIA	
1.113.24	VAAS AUTOMATION PVT LTD	INDIA	
1.113.25	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.114	VALVE BALL FIRE SAFE-CCS		
A	INDIAN BIDDERS		
1.114.1	ANAND TEKNOVA AIDS ENGINEERING INDIA LTD	INDIA	
1.114.2	AQUA CONTROL VAVES PVT LTD	INDIA	
1.114.3	BELGAUM AQUA VALVES PVT. LTD.	INDIA	
1.114.4	BRAY CONTROLS INDIA PVT LTD	INDIA	
1.114.5	DEMBLA VALVES LIMITED	INDIA	
1.114.6	FLOW CHEM INDUSTRIES	INDIA	
1.114.7	FLOWJET VAVES PVT LTD	INDIA	
1.114.8	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022
1.114.9	HAWA ENGINEERS LTD	INDIA	
1.114.10	INTERVALVE POONAWALLA LIMITED	INDIA	
1.114.11	L & T VALVES LIMITED	INDIA	
1.114.12	LEADER VALVES LTD	INDIA	
1.114.13	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022
1.114.14	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	
1.114.15	MICROFINISH VALVES PVT LIMITED	INDIA	
1.114.16	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.114.17	NSSL PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.114.18	OSWAL INDUSTRIES LTD	INDIA	
1.114.19	RAPPID VALVES INDIA PVT LTD	INDIA	
1.114.20	REYNOLD VALVES LTD	INDIA	
1.114.21	SHAYBURG VALVES PVT LTD	INDIA	
1.114.22	VAAS AUTOMATION PVT LTD	INDIA	
1.114.23	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.114.24	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.115	VALVE BALL FIRE SAFE-CSS		
A	INDIAN BIDDERS		
1.115.1	ANAND TEKNOVA AIDS ENGINEERING INDIA LTD.	INDIA	
1.115.2	BELGAUM AQUA VALVES PVT. LTD.	INDIA	
1.115.3	CRANE PROCESS FLOW TECHNOLOGES (INDIA) PVT LTD	INDIA	Rev. 14: Name Deletion
1.115.4	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.115.5	FLOW CHEM INDUSTRIES	INDIA	
1.115.6	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022



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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.115.7	INTERVALVE POONAWALLA LIMITED	INDIA	
1.115.8	L & T VALVES LIMITED	INDIA	
1.115.9	LEADER VALVES LTD	INDIA	
1.115.10	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022
1.115.11	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	
1.115.12	MICROFINISH VALVES PVT LIMITED	INDIA	
1.115.13	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.115.14	NSSL PRIVATE LIMITED	INDIA	Rev.4: Name Updation
1.115.15	OMKAR VALVES PVT LTD	INDIA	
1.115.16	REYNOLD VALVES LTD	INDIA	
1.115.17	VAAS AUTOMATION PVT LTD	INDIA	
1.115.18	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.115.19	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.116	VALVE BALL - FIRE SAFE (FORGED)		
A	INDIAN BIDDERS		
1.116.1	ANAND TEKNOVA AIDS ENGINEERING INDIA LTD.	INDIA	
1.116.2	BELGAUM AQUA VALVES PVT. LTD.	INDIA	
1.116.3	CRANE PROCESS FLOW TECHNOLOGES (INDIA) PVT LTD	INDIA	Rev. 14: Name Deletion
1.116.4	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.116.5	INTERVALVE POONAWALLA LIMITED	INDIA	
1.116.6	MICON ENGINEERS (HUBLI) PVT LTD	INDIA	
1.116.7	MICROFINISH VALVES PVT LIMITED	INDIA	
1.116.8	OMKAR VALVES PVT LTD	INDIA	
1.116.9	SHAYBURG VALVES PVT LTD	INDIA	
1.116.10	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.117	VALVE BALL NON FIRE SAFE-FCS		
A	INDIAN BIDDERS		
1.117.1	BELGAUM AQUA VALVES PVT. LTD.	INDIA	
1.117.2	CRANE PROCESS FLOW TECHNOLOGES (INDIA) PVT LTD	INDIA	Rev. 14: Name Deletion
1.117.3	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.117.4	FLOW CHEM INDUSTRIES	INDIA	
1.117.5	HAWA ENGINEERS LTD	INDIA	
1.117.6	INTERVALVE POONAWALLA LIMITED	INDIA	
1.117.7	LEADER VALVES LTD	INDIA	
1.117.8	MEVADA ENGG.WORKS PVT LTD	INDIA	
1.117.9	MICROFINISH VALVES PVT LIMITED	INDIA	
1.117.10	NITON VALVE INDUSTRIES PRIVATE LTD.	INDIA	
1.117.11	OMKAR VALVES PVT LTD	INDIA	
1.117.12	SHAYBURG VALVES PVT LTD	INDIA	
1.117.13	ANAND TEKNOVA AIDS ENGINEERING INDIA LTD.	INDIA	
1.118	VALVE BALL NON FIRE SAFE-FSS		

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
A	INDIAN BIDDERS		
1.118.1	BELGAUM AQUA VALVES PVT. LTD.	INDIA	
1.118.2	CRANE PROCESS FLOW TECHNOLOGES (INDIA) PVT LTD	INDIA	Rev. 14: Name Deletion
1.118.3	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.118.4	FLOW CHEM INDUSTRIES	INDIA	
1.118.5	HAWA ENGINEERS LTD	INDIA	
1.118.6	INTERVALVE POONAWALLA LIMITED	INDIA	
1.118.7	LEADER VALVES LTD	INDIA	
1.118.8	MEVADA ENGG.WORKS PVT LTD	INDIA	
1.118.9	MICROFINISH VALVES PVT LIMITED	INDIA	
1.118.10	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.118.11	OMKAR VALVES PVT LTD	INDIA	
1.118.12	SHAYBURG VALVES PVT LTD	INDIA	
1.118.13	ANAND TEKNOV AIDS ENGINEERING INDIA LTD.	INDIA	
1.119	VALVE BALL JACKETED - NON FIRE SAFE		
A	INDIAN BIDDERS		
1.119.1	BELGAUM AQUA VALVES PVT. LTD.	INDIA	
1.119.2	MICROFINISH VALVES PVT LIMITED	INDIA	
1.120	VALVE BALL MULTI PORT NON FIRE SAFE		
A	INDIAN BIDDERS		
1.120.1	BELGAUM AQUA VALVES PVT. LTD.	INDIA	
1.120.2	MICROFINISH VALVES PVT LIMITED	INDIA	
1.121	VALVE BUTTERFLY-(FOREIGN SUPPLIERS)		
A	INDIAN BIDDERS		
1.121.1	EMERSON PROCESS MANAGEMENT (INDIA) PVT LTD	INDIA	Rev.1: Name Change
1.122	VALVE BUTTERFLY - CCS		
A	INDIAN BIDDERS		
1.122.1	ADVANCE VALVES PVT LTD.	INDIA	
1.122.2	CRANE PROCESS FLOW TECHNOLOGIES (INDIA) PVT LTD	INDIA	Rev.4: Name Updation
1.122.3	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.122.4	FLUOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.1: Name Change
1.122.5	FLUIDLINE VALVES CO.PVT LTD	INDIA	
1.122.6	FOURESS ENGINEERING (INDIA) PRIVATE LIMITED	INDIA	Rev-12 : Name Updation
1.122.7	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022
1.122.8	HAWA ENGINEERS LTD	INDIA	
1.122.9	INSTRUMENTATION LTD	INDIA	Rev.1: Name Change
1.122.10	INTERVALVE POONAWALLA LIMITED	INDIA	
1.122.11	L & T VALVES LIMITED	INDIA	
1.122.12	LEADER VALVES LTD	INDIA	
1.122.13	MASCOT VALVES PVT LIMITED	INDIA	





SECTION-B BULK PIPING ITEMS			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.122.14	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022
1.122.15	OMKAR VALVES PVT LTD	INDIA	
1.122.16	EMERSON PROCESS MANAGEMENT (INDIA) PVT LTD	INDIA	Rev.1: Name Change
1.122.17	STAFFORD CONTROLS PRIVATE LIMITED	INDIA	Rev.14: Name Updation
1.122.18	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.122.19	BRAY CONTROLS INDIA PVT LTD.	INDIA	
1.122.20	DEMBLA VALVES LIMITED	INDIA	
1.122.21	FLOTEK INDUSTRIES	INDIA	Rev.15: Name Addition
1.123	VALVE BUTTERFLY -CSS		
A	INDIAN BIDDERS		
1.123.1	ADVANCE VALVES PVT LTD.	INDIA	
1.123.2	BRAY CONTROLS INDIA PVT LTD.	INDIA	
1.123.3	CRANE PROCESS FLOW TECHNOLOGIES (INDIA) PVT LTD	INDIA	Rev.4: Name Updation
1.123.4	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.123.5	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.1: Name Change
1.123.6	FLUIDLINE VALVES CO.PVT LTD	INDIA	
1.123.7	FOURESS ENGINEERING (INDIA) PRIVATE LIMITED	INDIA	Rev-12 : Name Updation
1.123.8	INSTRUMENTATION LTD	INDIA	Rev.1: Name Change
1.123.9	INTERVALVE POONAWALLA LIMITED	INDIA	
1.123.10	L & T VALVES LIMITED	INDIA	
1.123.11	LEADER VALVES LTD	INDIA	
1.123.12	MASCOT VALVES PVT LIMITED	INDIA	
1.123.13	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022
1.123.14	OMKAR VALVES PVT LTD	INDIA	
1.123.15	EMERSON PROCESS MANAGEMENT (INDIA) PVT LTD	INDIA	Rev.1: Name Change
1.123.16	STAFFORD CONTROLS PRIVATE LIMITED	INDIA	Rev.14: Name Updation
1.123.17	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.123.18	DEMBLA VALVES LIMITED	INDIA	
1.124	VALVE BUTTERFLY -CAS		
A	INDIAN BIDDERS		
1.124.1	BRAY CONTROLS INDIA PVT LTD.	INDIA	
1.124.2	CRANE PROCESS FLOW TECHNOLOGIES (INDIA) PVT LTD	INDIA	Rev.4: Name Updation
1.124.3	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.124.4	LEADER VALVES LTD	INDIA	
1.124.5	OMKAR VALVES PVT LTD	INDIA	
1.125	VALVE BUTTERFLY (PTFE SEATED)		
A	INDIAN BIDDERS		
1.125.1	BRAY CONTROLS INDIA PVT LTD.	INDIA	
1.125.2	CRANE PROCESS FLOW TECHNOLOGIES (INDIA) PVT LTD	INDIA	Rev.4: Name Updation
1.125.3	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.125.4	DEMBLA VALVES LIMITED	INDIA	




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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.125.5	EMERSON PROCESS MANAGEMENT (INDIA) PVT LTD	INDIA	Rev.6: Correction
1.125.6	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022
1.125.7	HI TECH BUTTERFLY VALVES INDIA PVT LTD.	INDIA	
1.125.8	INTERVALVE POONAWALLA LIMITED	INDIA	
1.125.9	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.126	VALVE BELLOW SEALED		
A	INDIAN BIDDERS		
1.126.1	BELL-O-SEAL VALVES PVT LTD	INDIA	
1.126.2	L & T VALVES LIMITED	INDIA	
1.126.3	MICROFINISH VALVES PVT LIMITED	INDIA	
1.126.4	UNI KLINGER LTD	INDIA	
1.126.5	VELAN VALVES INDIA PVT LTD	INDIA	
1.127	VALVE-BUTTERFLY (TRIPLE OFFSET)		
A	INDIAN BIDDERS		
1.127.1	ADVANCE VALVES PVT LTD.	INDIA	
1.127.2	BRAY CONTROLS INDIA PVT LTD.	INDIA	
1.127.3	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
1.127.4	DEMBLA VALVES LIMITED	INDIA	
1.127.5	INTERVALVE POONAWALLA LIMITED	INDIA	
1.127.6	L & T VALVES LIMITED	INDIA	
1.127.7	EMERSON PROCESS MANAGEMENT (INDIA) PVT LTD	INDIA	
1.127.8	FLOTEK INDUSTRIES	INDIA	Rev.11 : Name Updation
1.128	VALVE DIAPHRAGM-(FOREIGN SUPPLIERS)		
A	INDIAN BIDDERS		
1.129	VALVE DIAPHRAGM CAST CARBON STEEL		
A	INDIAN BIDDERS		
1.129.1	CRANE PROCESS FLOW TECHNOLOGIES (INDIA) PVT LTD	INDIA	Rev.4: Name Updation
1.129.2	PROCON ENGINEERS	INDIA	
1.129.3	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.130	VALVE DIAPHRAGM CAST STAINLESS STEEL		
A	INDIAN BIDDERS		
1.130.1	CRANE PROCESS FLOW TECHNOLOGIES (INDIA) PVT LTD	INDIA	Rev.4: Name Updation
1.130.2	PROCON ENGINEERS	INDIA	
1.130.3	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.131	VALVE PLUG-(FOREIGN SUPPLIERS)		
1.132	VALVE PLUG CONCENTRIC- CCS (F.S & N.F.S)		
A	INDIAN BIDDERS		

			
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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.132.1	CHEMTROLS SAMIL (INDIA) PVT LTD	INDIA	
1.132.2	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.1: Name Change
1.132.3	GM ENGINEERING PVT. LTD.	INDIA	Rev-12 : Holiday List till 10.08.2022
1.132.4	RASAI FLOW LINES PVT LTD.	INDIA	
1.132.5	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	
1.132.6	XOMOX SANMAR LIMITED	INDIA	
1.132.7	SOUDARSHINI VALVE PRIVATE LIMITED	INDIA	
1.133	VALVE PLUG CONCENTRIC -CSS (F.S & N.F.S)		
A	INDIAN BIDDERS		
1.133.1	CHEMTROLS SAMIL (INDIA) PVT LTD	INDIA	
1.133.2	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.1: Name Change
1.133.3	RASAI FLOW LINES PVT LTD.	INDIA	
1.133.4	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	Rev.1: Name Change
1.133.5	XOMOX SANMAR LIMITED	INDIA	
1.134	VALVE PLUG CONCENTRIC-CAS(F.S. & N.F.S.)		
A	INDIAN BIDDERS		
1.134.1	XOMOX SANMAR LIMITED	INDIA	
1.135	VALVE PISTON (GLANDLESS)		
A	INDIAN BIDDERS		
1.135.1	ARMSTRONG INTERNATIONAL PVT LTD.	INDIA	
1.135.2	FORBES MARSHALL PRIVATE LIMITED	INDIA	Rev.2: Name Change
1.135.3	UNI KLINGER LTD	INDIA	
1.136	VALVE PLUG DBB EXPANDING TYPE		
A	INDIAN BIDDERS		
1.136.1	GHATGE PATIL INDUSTRIES LIMITED	INDIA	
1.137	VALVE PLUG MULTIPOST - NON FIRE SAFE		
A	INDIAN BIDDERS		
1.137.1	XOMOX SANMAR LIMITED	INDIA	
1.138	VALVE NEEDLE		
A	INDIAN BIDDERS		
1.138.1	ASSOCIATED TOOLINGS INDIA PVT LTD	INDIA	
1.138.2	EXCELSIOR ENGG. WORKS	INDIA	
1.138.3	LEADER VALVES LTD	INDIA	
1.138.4	ASTEC VALVES AND FITTINGS PVT LTD	INDIA	
1.138.5	ATAM VALVES LIMITED	INDIA	Rev.3: Name Change
1.138.6	PACHVATI VALVES AND FLANGES PRIVATE LIMITED	INDIA	Rev.3: Name Change
1.138.7	PRATOLINA INSTRUMENTS PVT LTD	INDIA	Rev.6: Name Change

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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.139	VALVE DOUBLE DISC GATE		
A	INDIAN BIDDERS		
1.139.1	L & T VALVES LIMITED	INDIA	
1.140	VALVE SLIDE		
1.141	VALVE SHUT DOWN		
A	INDIAN BIDDERS		
1.141.1	NITON VALVE INDUSTRIES PRIVATE LTD .	INDIA	
1.141.2	SPX VALVES & CONTROLS (FORMERLY DEZURIK)	INDIA	
1.142	VALVE CRYOGENIC SS /LTCS		
A	INDIAN BIDDERS		
1.142.1	VELAN VALVES INDIA PVT LTD	INDIA	Rev.10: Name Update
1.143	VALVE SPECIAL CATEGORY		
A	INDIAN BIDDERS		
1.143.1	AMPO VALVES INDIA PVT LTD	INDIA	
1.143.2	AMPO VALVES INDIA PVT LTD	INDIA	Rev.2: Name Change
1.143.3	L & T VALVES LIMITED	INDIA	
1.143.4	EMERSON PROCESS MANAGEMENT (INDIA) PVT LTD	INDIA	Rev.1: Name Change
1.143.5	SCHUF SPECIALITY VALVES INDIA PVT LTD	INDIA	
1.144	VALVE TANK BOTTOM/FLUSH BOTTOM		
A	INDIAN BIDDERS		
1.144.1	MICROFINISH VALVES PVT LIMITED	INDIA	
1.144.2	SCHUF SPECIALITY VALVES INDIA PVT LTD	INDIA	
1.145	HASTELLOY PIPING COMPONENTS		
A	INDIAN BIDDERS		
1.145.1	TITANIUM TANTALUM PRODUCTS INDIA	INDIA	
1.145.2	SAI TITANIUM PRODUCTS PVT. LTD. INDIA	INDIA	
1.145.3	TITANIUM TECHNIQUES INDIA	INDIA	
1.145.4	D.K. CORPORATION INDIA	INDIA	
1.145.5	SANGHVI BOTHRA ENGG. CO. PVT. LTD. INDIA	INDIA	
1.145.6	LARSEN & TURBO INDIA	INDIA	
1.145.7	TINITA ENGINEERING PRIVATE LIMITED INDIA	INDIA	
1.145.8	JLS INTERNATIONAL INDIA	INDIA	
1.145.9	SHALCO INDUSTRIES PVT LTD INDIA	INDIA	
1.145.10	NEEKA TUBES INDIA	INDIA	
1.145.11	LOTARIOS	INDIA	
1.146	TITANIUM PIPING COMPONENTS		
A	INDIAN BIDDERS		
1.146.1	TITANIUM TANTALUM PRODUCTS INDIA	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.146.2	SAI TITANIUM PRODUCTS PVT. LTD. INDIA	INDIA	
1.146.3	TITANIUM TECHNIQUES INDIA	INDIA	
1.146.4	D.K. CORPORATION INDIA	INDIA	
1.146.5	SANGHVI BOTHRA ENGG. CO. PVT. LTD. INDIA	INDIA	
1.146.6	LARSEN & TURBO INDIA	INDIA	
1.146.7	TINITA ENGINEERING PRIVATE LIMITED INDIA	INDIA	
1.146.8	JLS INTERNATIONAL INDIA	INDIA	
1.146.9	SHALCO INDUSTRIES PVT LTD INDIA	INDIA	
1.146.10	NEEKA TUBES INDIA	INDIA	
1.146.11	LOTARIOS	INDIA	
1.147	LOW PRESSURE DROP BALL CHECK VALVE		
A	INDIAN BIDDERS		
	NO INDIAN BIDDER AVAILABLE		
1.148	EXPANSION JOINT (METAL)		
A	INDIAN BIDDERS		
1.148.1	METALLIC BELLOWS (ONLY FOR PIPING) INDIA	INDIA	
1.148.2	FLEXICAN BELLOWS (ONLY FOR PIPING) INDIA	INDIA	
1.148.3	LONESTAR INDUSTRIES INDIA	INDIA	
1.148.4	WITZENMANN GMBH INDIA	INDIA	
1.149	EXPANSION JOINT (PRESSURE BALANCE)		
A	INDIAN BIDDERS		
1.149.1	FLEXICAN BELLOWS & HOSES PVT. LTD.	INDIA	
1.150	BIRD SCREEN		
A	INDIAN BIDDERS		
1.150.1	SUNRISE PROCESS EQUIPMENTS	INDIA	
1.150.2	ESFOUR ENGINEERING	INDIA	
1.150.3	NJ TECH ENGINEERING	INDIA	
1.151	EYE WASHER & SAFETY SHOWER		
A	INDIAN BIDDERS		
1.151.1	FRANCIS LESLIE & CO INDIA	INDIA	
1.151.2	PRADEEP SAFETY PVT LTD. INDIA	INDIA	
1.151.3	STAR ENGINEERS INDIA	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.151.4	UNICARE EMERGENCY EQUIPMENT INDIA	INDIA	
1.151.5	CREATIVE ENGINEERS INDIA	INDIA	
1.151.6	TYCO FIRE AND INETRATED SOLUTIONS	INDIA	
1.152	INSULATING GASKET		
A	INDIAN BIDDERS		
1.152.1	GOODRICH GASKET PRIVATE LIMITED	INDIA	
1.152.2	IGP ENGINEERS PVT LTD	INDIA	
1.153	POST INDICATOR VALVES		
A	INDIAN BIDDERS		
1.153.1	L&T VALVES - INDIA	INDIA	
1.153.2	AMPO POYAM- INDIA	INDIA	
1.153.3	TRILLIUM FLOW TECHNOLOGIES INDIA PRIVATE LIMITED	INDIA	
1.154	COPPER TUBING		
A	INDIAN BIDDERS		
1.154.1	ALCOBEX METALS PVT. LTD. INDIA	INDIA	
1.154.2	MULTIMETALS LTD. INDIA	INDIA	
1.154.3	RAJCO METAL INDUSTRIES PVT. LTD. INDIA	INDIA	
1.154.4	INDUSTRIAL TUBES INDIA	INDIA	
1.154.5	KAMANI TUBES INDIA	INDIA	
1.154.6	HINDUSTAN STEEL & METAL WORKS INDIA	INDIA	
1.154.7	RELIANCE ENGINEERS LTD	INDIA	
1.154.8	MEHTA TUBES LIMITED	INDIA	
1.155	3-WAY VALVES		
A	INDIAN BIDDERS		
1.155.1	2L Engineers	INDIA	
1.155.2	Rajeev & Company	INDIA	
1.155.3	Flow Chem Industries	INDIA	
1.155.4	General Engineering Consortium	INDIA	
1.155.5	Asian Industrial Valves and Instruments	INDIA	
1.156	LTCS (LOW TEMPERATURE CARBAN STEEL) FLANGE		
A	INDIAN BIDDERS		

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.156.1	ANANDMAYEE FORGINGS PVT LTD	INDIA	
1.156.2	BHARAT FORGE LTD.	INDIA	
1.156.3	BRITEX ENGINEERING WORKS	INDIA	
1.156.4	CD INDUSTRIES UNIT OF M/S KISAAN ENGINEERING WORKS PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.156.5	CHANDAN STEEL LTD	INDIA	
1.156.6	CHW FORGE PVT LTD (FR. CHAUDHRY HAMMER)	INDIA	
1.156.7	ECHJAY INDUSTRIES PVT LTD	INDIA	Rev.1: Name Change
1.156.8	FIVEBROS FORGINGS PVT.LTD.	INDIA	
1.156.9	GOOD LUCK ENGINEERING CO.	INDIA	
1.156.10	HILTON METAL FORGING LIMITED	INDIA	
1.156.11	JAV FORGINGS & ENGINEERINGS PVT LTD	INDIA	Rev.1: Name Change
1.156.12	KUNJ FORGINGS PVT LTD	INDIA	Rev.12: DELETED
1.156.13	LAL METAL FORGE LTD	INDIA	
1.156.14	METAL FORGINGS PVT LTD	INDIA	
1.156.15	P.K.TUBES & FITTINGS PVT.LTD.	INDIA	
1.156.16	PARAMOUNT FORGE	INDIA	
1.156.17	PRADEEP METALS LIMITED	INDIA	
1.156.18	R D FORGE (A UNIT OF R D CHEMICALS PVT LTD)	INDIA	Rev.4: Name Updation
1.156.19	SANGHVI FORGING AND ENGINEERING LIMITED	INDIA	Rev.12: Deleted
1.156.20	UTSAH ENGINEERING PRIVATE LIMITED	INDIA	Rev.12: Name Change
1.156.21	VIRAJ PROFILES LIMITED	INDIA	
1.156.22	MAXELL FORGE INDUSTRIES	INDIA	
1.156.23	GAYATRI FORGE PVT LTD	INDIA	
1.156.24	MAASS FLANGE INDIA PVT. LTD	INDIA	
1.156.25	K S PIPE FITTINGS PRIVATE LIMITED	INDIA	
1.157	PRIMARY SUPPORTS		Rev.3: Addition
A	INDIAN BIDDERS		
1.157.1	BHAGAT FABRICATOR	INDIA	Rev.3: Addition
1.157.2	GAYATRI ENGINEERING	INDIA	Rev.3: Addition
1.157.3	KINAM ENGINEERING	INDIA	Rev.3: Addition
1.157.4	YAMUNA FABRICATOR	INDIA	Rev.3: Addition
1.157.5	NUTAN ENTERPRISES	INDIA	Rev.3: Addition
1.157.6	DOLPHIN ENGINEERING ENTERPRISE	INDIA	Rev.7: Name Change
1.157.7	GEECY ENGINEERING PRIVATE LIMITED	INDIA	Rev.3: Addition
1.157.8	PIPE HANGERS & SUPPORTS PRIVATE LIMITED	INDIA	Rev.13: NAME UPDATION
1.157.9	PIPING & ENERGY PRODUCTS PRIVATE LIMITED	INDIA	Rev.3: Addition
1.157.10	R S ENTERPRISES	INDIA	Rev.3: Addition
1.157.11	TITANIC PRODUCTS PRIVATE LIMITED	INDIA	Rev.3: Addition

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Sr.No	VENDOR NAME	COUNTRY	REMARK
1.158	SPECTACLE BLIND		Rev.3: Addition
A	INDIAN BIDDERS		
1.158.1	C D ENGINEERING COMPANY	INDIA	Rev.3: Addition
1.158.2	CHW FORGE PRIVATE LIMITED	INDIA	Rev.3: Addition
1.158.3	FABWEL ENGINEERING CORPORATION	INDIA	Rev.11: Name Change
1.158.4	PARAMOUNT FORGE	INDIA	Rev.3: Addition
1.158.5	SANGHVI FORGING AND ENGINEERING LIMITED	INDIA	Rev.12: Deleted
1.158.6	SWATHI ENGINEERS	INDIA	Rev.3: Addition
1.158.7	TINITA ENGINEERING PRIVATE LIMITED	INDIA	Rev.3: Addition
1.158.8	TRIVENI EQUIPMENTS PRIVATE LIMITED	INDIA	Rev.3: Addition
1.158.9	DOLPHIN ENGINEERING ENTERPRISE	INDIA	Rev.7: Name Change
1.159	SEAMLESS PIPES INTERNALLY EPOXY COATED AND EXTERNALLY 3 LPE COATED		Rev.8: New Category
A	INDIAN BIDDERS		
1.159.1	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	
1.159.2	HEAVY METAL AND TUBES LTD	INDIA	
1.159.3	JINDAL SAW LIMITED (SEMLESS DIV.)	INDIA	
1.159.4	MAHARASHTRA SEAMLESS LIMITED	INDIA	
1.159.5	BHARAT ENTERPRISES	INDIA	
1.159.6	EVERGREEN SEAMLESS PIPES AND TUBES PVT LTD	INDIA	
1.159.7	HEAVY METAL PIPECENTRE	INDIA	
1.159.8	HI TECH METAL AND TUBES	INDIA	
1.159.9	INDUSTRIAL METAL CORPORATION	INDIA	
1.159.10	MOTILAL LAXMICHAND SANGHAVI	INDIA	
1.159.11	N-PIPE SOLUTIONS INC.	INDIA	
1.159.12	RAJENDRA PIPING AND FITTINGS	INDIA	
1.159.13	SADAF TRADING COMPANY	INDIA	
1.159.14	VENUS TRADING CORPORATION	INDIA	
1.160	WELDED PIPE INTERNALLY EPOXY COATED AND EXTERNALLY 3 LPE COATED		Rev.8: New Category
A	INDIAN BIDDERS		
1.160.1	BHARAT ENTERPRISES	INDIA	
1.160.2	EVERGREEN SEAMLESS PIPES AND TUBES PVT LTD	INDIA	
1.160.3	HEAVY METAL PIPECENTRE	INDIA	
1.160.4	HI TECH METAL AND TUBES	INDIA	
1.160.5	INDUSTRIAL METAL CORPORATION	INDIA	
1.160.6	MOTILAL LAXMICHAND SANGHAVI	INDIA	
1.160.7	LALIT PIPES AND PIPES LIMITED	INDIA	
1.160.8	ARCELORMITTAL NIPPON STEEL INDIA LIMITED	INDIA	
1.160.9	MUKAT TANKS & VESSELS PVT. LTD	INDIA	
1.160.10	N-PIPE SOLUTIONS INC	INDIA	
1.160.11	RAJENDRA PIPING AND FITTINGS	INDIA	
1.160.12	SADAF TRADING COMPANY	INDIA	
1.160.13	RATNAMANI METALS AND TUBES LTD	INDIA	
1.160.14	VENUS TRADING CORPORATION	INDIA	

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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-B (BULK PIPING ITEMS)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
1.160.15	WELSPUN CORP LIMITED	INDIA	
1.160.16	MAN INDUSTRIES (I) LTD	INDIA	

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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.1	SWITCHBOARD-HV (Indoor) WITH VCB BREAKER (complete)		
A	Indian Bidders		
5.1.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.1.2	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.1.3	CG Power and Industrial Solutions Ltd	INDIA	
5.1.4	Jyoti Limited	INDIA	
5.1.5	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.1.6	Megawin Switchgear P Ltd	INDIA	
5.1.7	Schneider Electric Infrastructure Ltd	INDIA	
5.1.8	Siemens Limited	INDIA	
5.2	SWITCHBOARD-MV: MCC/ASB/LDB-FIXED TYP		
A	Indian Bidders		
5.2.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.2.2	C & S Electric Ltd	INDIA	
5.2.3	CONTROLS AND SCHEMATICS PRIVATE LIMITED	INDIA	Rev.11: Name Updation
5.2.4	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.2.5	M.K. Engineers & Controls Pvt. Ltd.	INDIA	
5.2.6	Schneider Electric India Private Limited	INDIA	
5.2.7	Siemens Ltd	INDIA	
5.2.8	BCH ELECTRIC LIMITED	INDIA	Rev.7: New Addition
5.3	SWITCHBOARD-M.V. : MCC/PCC/PMCC-DRAWOUT		
A	Indian Bidders		
5.3.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.3.2	C & S Electric Ltd	INDIA	
5.3.3	CONTROLS AND SCHEMATICS PRIVATE LIMITED	INDIA	Rev.11: Name Updation
5.3.4	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.3.5	Schneider Electric India Private Limited	INDIA	
5.3.6	Siemens Ltd	INDIA	
5.4	SWITCHBOARD FIXED TYPE FOR PACKAGE EQUIPTS		
A	Indian Bidders		
5.4.1	Accusonic Controls Pvt Ltd	INDIA	
5.4.2	Dharia Switchgear & Control.	INDIA	
5.4.3	Electro Allied Products	INDIA	
5.4.4	Schneider Electric India Private Limited	INDIA	Rev.6: Name Change
5.4.5	M.K. Engineers & Controls Pvt. Ltd.	INDIA	
5.4.6	Maktel Systems	INDIA	
5.4.7	Nitya Electro Controls	INDIA	
5.4.8	Popular Switchgears Pvt Ltd	INDIA	
5.4.9	Positronics Pvt Ltd	INDIA	
5.4.10	Tricolite Electrical Industries Pvt Ltd	INDIA	
5.4.11	Vidhyut Control (India) Pvt Ltd	INDIA	
5.4.12	Zenith Engineering Corp.	INDIA	
5.5	OUTDOOR SWITCHYARD PACKAGE		

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Sr.No	VENDOR NAME	COUNTRY	REMARK
A	Indian Bidders		
5.5.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.5.2	BGR Energy	INDIA	
5.5.3	Bharat Bijlee Limited	INDIA	
5.5.4	CG Power and Industrial Solutions Ltd	INDIA	
5.5.5	GE T&D India Ltd	INDIA	
5.5.6	Godrej & Boyce Mfg. Co. Ltd	INDIA	
5.5.7	KEC International Ltd	INDIA	
5.5.8	Schneider Electric India Private Limited	INDIA	Rev.6: Name Change
5.5.9	Siemens	INDIA	
5.5.10	Sterling & Wilson India	INDIA	
5.5.11	Toshiba Transmission & Distribution Systems (India) Private Limited	INDIA	
5.6	GIS upto 245kV (Indoor)		
A	Indian Bidders		
5.6.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.6.2	GE T&D India Ltd	INDIA	
5.6.3	CG Power and Industrial Solutions Ltd (upto 33 kV only)	INDIA	
5.6.4	Schneider Electric Infrastructure Limited (SEIL)	INDIA	Rev.6: Name Change
5.6.5	SIEMENS LIMITED	INDIA	Rev.13: Name Updation
5.6.6	Toshiba Transmission & Distribution Systems (India) Private Limited	INDIA	
5.7	RELAY & CONTROL PANEL		
A	Indian Bidders		
5.7.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.7.2	Danish Private Limited	INDIA	
5.7.3	Easun Reyrolle Ltd	INDIA	
5.7.4	Enpro Industrial Automation Pvt Ltd	INDIA	
5.7.5	GE T&D India Limited	INDIA	
5.7.6	Schneider Electric India Private Limited	INDIA	
5.7.7	Siemens Limited	INDIA	
5.7.8	Toshiba Transmission & Distribution Systems (India) Private Limited	INDIA	
5.8	PROTECTION RELAY (NUMERICAL TYPE)		
A	Indian Bidders		
5.8.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.8.2	Easun Reyrolle Ltd	INDIA	
5.8.3	GE T&D India Limited	INDIA	
5.8.4	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.8.5	Schneider Electric India Private Limited	INDIA	
5.8.6	Schweitzer Engineering Laboratories	INDIA	
5.8.7	Siemens Ltd.	INDIA	
5.8.8	Toshiba Transmission & Distribution Systems (India) Private Limited	INDIA	
5.9	AUX. RELAYS		
A	Indian Bidders		
5.9.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change

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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.9.2	C&S Electric Ltd	INDIA	
5.9.3	Easun Reyrolle Ltd	INDIA	
5.9.4	GE T&D India Limited	INDIA	
5.9.5	Jyoti Ltd	INDIA	
5.9.6	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.9.7	OMRON	INDIA	
5.9.8	Schneider Electric India Private Limited	INDIA	
5.9.9	Siemens Ltd	INDIA	
5.10	BIMETAL RELAYS		
A	Indian Bidders		
5.10.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.10.2	C&S Electric Ltd	INDIA	
5.10.3	GE T&D India Limited	INDIA	
5.10.4	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.10.5	Schneider Electric India Private Limited	INDIA	
5.10.6	Siemens Ltd	INDIA	
5.11	ELECTRIC CONTROL SYSTEM (ECS) / SCADA / PMS		
A	Indian Bidders		
5.11.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.11.2	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.11.3	Emerson Process Management India Pvt Ltd	INDIA	
5.11.4	Honeywell Automation India Ltd.	INDIA	
5.11.5	Rockwell Automation India	INDIA	
5.11.6	Schneider Electric Infrastructure Ltd	INDIA	
5.11.7	Schweitzer Engineering Laboratories	INDIA	
5.11.8	Siemens Ltd	INDIA	
5.12	INSTRUMENT TRANSFORMERS – CT & PT (HV)		
A	Indian Bidders		
5.12.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.12.2	Electrical Controls & Systems	INDIA	
5.12.3	Kalpa Elektrikal Pvt Ltd	INDIA	
5.12.4	Kappa Electricals	INDIA	
5.12.5	Megawin Switchgear P Ltd	INDIA	
5.12.6	Pragati Electricals Pvt. Ltd.	INDIA	
5.12.7	Schneider Electric India Private Limited	INDIA	
5.12.8	Siemens Ltd	INDIA	
5.13	INSTRUMENT TRANSFORMERS – CT & PT (MV)		
A	Indian Bidders		
5.13.1	C&S Electric Limited	INDIA	
5.13.2	Gilbert & Maxwell Electricals Pvt. Ltd	INDIA	
5.13.3	Kalpa Elektrikal Pvt Ltd	INDIA	
5.13.4	Kappa Electricals	INDIA	
5.13.5	Schneider Electric India Private Limited	INDIA	Rev.6: Name Change



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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.13.6	Narayan Powertech Pvt. Ltd.	INDIA	
5.13.7	Pragati Electricals Pvt. Ltd.	INDIA	
5.13.8	Precise Electricals	INDIA	
5.13.9	Silkaans Electricals Pvt. Ltd.	INDIA	
5.14	CIRCUIT BREAKER SF-6 /OUT DOOR EHV		
A	Indian Bidders		
5.14.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.14.2	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.14.3	CG Power and Industrial Solutions Ltd	INDIA	
5.14.4	GE T&D India Ltd	INDIA	
5.14.5	Siemens Ltd	INDIA	
5.14.6	Toshiba Transmission & Distribution Systems (India) Private Limited	INDIA	
5.15	VACCUM CIRCUIT BREAKERS		
A	Indian Bidders		
5.15.1	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.15.2	Siemens Ltd	INDIA	
5.15.3	Schneider Electric India Private Limited	INDIA	
5.15.4	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.15.5	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.15.6	CG Power and Industrial Solutions Ltd	INDIA	
5.15.7	Megawin Switchgear P Ltd	INDIA	
5.15.8	Jyoti Ltd	INDIA	
5.16	AIR CIRCUIT BREAKER		
A	Indian Bidders		
5.16.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.16.2	C&S Electric Limited	INDIA	
5.16.3	GE T&D India Ltd	INDIA	
5.16.4	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.16.5	Schneider Electric India Private Limited	INDIA	
5.16.6	Siemens Ltd	INDIA	
5.17	ISOLATORS / LOAD BREAK SWITCHES (HV INDOOR)		
A	Indian Bidders		
5.17.1	Driescher Panickker Switchgear Ltd India	INDIA	
5.17.2	Siemens Ltd	INDIA	
5.17.3	S & S Power Switchgear Ltd	INDIA	
5.18	CONTACTOR		
A	Indian Bidders		
5.18.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.18.2	BCH Electric Ltd	INDIA	
5.18.3	C&S Electric Ltd	INDIA	
5.18.4	GE T&D India Limited	INDIA	
5.18.5	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion



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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.18.6	Schneider Electric India Private Limited	INDIA	
5.18.7	Siemens Ltd	INDIA	
5.19	MCCB		
A	Indian Bidders		
5.19.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.19.2	GE T&D India Limited	INDIA	
5.19.3	Havells India Ltd	INDIA	
5.19.4	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.19.5	Schneider Electric India Private Limited	INDIA	
5.19.6	Siemens Ltd	INDIA	

5.2	TIMERS		
A	Indian Bidders		
5.20.1	Electronic Automation Pvt Ltd	INDIA	
5.20.2	Honeywell Automation India Limited	INDIA	
5.20.3	ICA Pvt. Limited (Omron)	INDIA	
5.20.4	Schneider Electric India Private Limited	INDIA	Rev.6: Name Change
5.20.5	OEN	INDIA	
5.20.6	Siemens Limited	INDIA	
5.20.7	GE T&D India Limited	INDIA	

5.21	PUSH BUTTON & INDICATING LAMPS (Independent supply / Retrofitting / Alteration / Modification work)		
A	Indian Bidders		
5.21.1	C & S Electric Ltd	INDIA	
5.21.2	Essen Deinki	INDIA	
5.21.3	Hotline Switchgear & Controls	INDIA	
5.21.4	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.21.5	Precifine Products Pvt. Ltd.	INDIA	
5.21.6	Schneider Electric India Private Limited	INDIA	
5.21.7	Shri Tulsi Switchgears Pvt Ltd	INDIA	
5.21.8	Siemens Limited	INDIA	
5.21.9	Teknic Electric (I) Pvt. Ltd.	INDIA	

5.22	MCB (Independent supply / Retrofitting / Alteration / Modification work)		
A	Indian Bidders		
5.22.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.22.2	C & S Electric Ltd	INDIA	
5.22.3	Havells India Ltd	INDIA	
5.22.4	Novateur Electrical & Digital Systems P	INDIA	
5.22.5	Indiana Current Control Ltd	INDIA	
5.22.6	Legrand (India) Pvt. Ltd	INDIA	
5.22.7	Siemens Limited	INDIA	
5.22.8	Standard Electricals Ltd	INDIA	
5.22.9	Schneider Electric India Private Limited	INDIA	
5.22.10	Polycab India Limited (MCB upto current range 63A)	INDIA	Rev.3:New Addition

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5.23	HEAVY DUTY SWITCHES (Independent supply / Retrofitting / Alteration / Modification work)		
A	Indian Bidders		
5.23.1	C & S Electric Ltd	INDIA	
5.23.2	Schneider Electric India Private Limited	INDIA	Rev.6: Name Change
5.23.3	Novateur Electrical & Digital Systems P	INDIA	
5.23.4	Siemens Ltd	INDIA	

5.24	CONTROL SWITCHES FOR BREAKER (Independent supply / Retrofitting / Alteration / Modification work)		
A	Indian Bidders		
5.24.1	GE T&D India Limited	INDIA	
5.24.2	Reliable Electronic Components Pvt Ltd	INDIA	
5.24.3	Switron Devices	INDIA	
5.25	CONTROL SWITCHES / SELECTOR SWITCHES (Independent supply / Retrofitting / Alteration / Modification work)		
A	Indian Bidders		
5.25.1	GE T&D India Limited	INDIA	
5.25.2	Hotline Switchgear & Controls	INDIA	
5.25.3	Kaycee Industries Ltd.	INDIA	
5.25.4	Schneider Electric India Private Limited	INDIA	Rev.6: Name Change
5.25.5	Reliable Electronic Components Pvt Ltd	INDIA	
5.25.6	Siemens Limited	INDIA	
5.25.7	Switron Devices	INDIA	
5.26	EARTH LEAKAGE CIRCUIT BREAKER (Independent supply / Retrofitting / Alteration / Modification work)		
A	Indian Bidders		
5.26.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.26.2	GE T&D India Limited	INDIA	
5.26.3	Havells India Ltd	INDIA	
5.26.4	Legrand (India) Pvt. Ltd	INDIA	
5.26.5	Novateur Electrical & Digital Systems P	INDIA	
5.26.6	Schneider Electric India Private Limited	INDIA	
5.26.7	Siemens Ltd	INDIA	
5.27	FUSES (Independent supply / Retrofitting / Alteration / Modification work)		
A	Indian Bidders		
5.27.1	Cooper Bussman India Pvt Ltd	INDIA	
5.27.2	GE T&D India Limited	INDIA	
5.27.3	Havells India Ltd	INDIA	
5.27.4	Schneider Electric India Private Limited	INDIA	Rev.6: Name Change
5.27.5	Novateur Electrical & Digital Systems P	INDIA	
5.27.6	Siemens Ltd	INDIA	

5.28	TRANSFORMERS-POWER-ABOVE 5MVA		
A	Indian Bidders		

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.28.1	Bharat Bijlee Limited	INDIA	
5.28.2	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.28.3	CG Power and Industrial Solutions Ltd	INDIA	
5.28.4	EMCO Limited	INDIA	Rev.12: DELETED
5.28.5	GE T&D India Ltd	INDIA	
5.28.6	Kirloskar Electric Co Ltd	INDIA	
5.28.7	Schneider Electric Infrastructure Ltd	INDIA	Rev.5: Name Change
5.28.8	Toshiba Transmission & Distribution Systems (India) Private Limited	INDIA	
5.28.9	Voltamp Transformers Ltd	INDIA	
5.29	TRANSFORMERS-DISTRIBUTION-UP TO 5MVA		
A	Indian Bidders		
5.29.1	Bharat Bijlee Limited	INDIA	
5.29.2	CG Power and Industrial Solutions Ltd	INDIA	
5.29.3	EMCO Limited	INDIA	Rev.12: DELETED
5.29.4	Kirloskar Electric Co Ltd	INDIA	
5.29.5	Kirloskar Power Equipments Ltd	INDIA	Rev.12: DELETED
5.29.6	Hammond Power Solutions Pvt Ltd.	INDIA	Rev.6: Name Change
5.29.7	Raychem RPG Private Limited	INDIA	Rev.12: Name Change
5.29.8	RIMA TRANSFORMERS & CONDUCTORS PVT LTD	INDIA	Rev.12: Name Change
5.29.9	Schneider Electric Infrastructure Ltd	INDIA	Rev.5: Name Change
5.29.10	Transformers & Rectifiers (I) Ltd	INDIA	
5.29.11	Vijay Electricals	INDIA	
5.29.12	Voltamp Transformers Ltd	INDIA	
5.30	TRANSFORMER-DISTRIBUTION (DRY TYPE)		
A	Indian Bidders		
5.30.1	Automatic Electric Ltd	INDIA	
5.30.2	Bharat Bijlee	INDIA	
5.30.3	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.30.4	CAHORS (Transfix)	INDIA	
5.30.5	CG Power and Industrial Solutions Ltd	INDIA	
5.30.6	INDCOIL TRANSFORMERS PVT LTD	INDIA	Rev.14 : Name Updation
5.30.7	Intra Vidyut Pvt Ltd	INDIA	
5.30.8	Kappa Electricals	INDIA	
5.30.9	Megawin Switchgear P Ltd	INDIA	
5.30.10	Hammond Power Solutions Pvt Ltd.	INDIA	Rev.6: Name Change
5.30.11	Raychem RPG Private Limited	INDIA	Rev.12: Name Change
5.30.12	Sudhir Power Limited	INDIA	Rev.6: Name Change
5.30.13	Transtrol Electricals Pvt Ltd	INDIA	Rev.6: Name Change
5.30.14	Voltamp Transformers Ltd	INDIA	
5.31	DRY TYPE LIGHTING TRANSFORMER (LV)		
A	Indian Bidders		
5.31.1	Automatic Electric	INDIA	
5.31.2	Bharat Bijlee	INDIA	
5.31.3	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.31.4	CG Power And Industrial Solutions Ltd	INDIA	
5.31.5	HAMMOND POWER SOLUTIONS	INDIA	Rev.7: New Addition
5.31.6	INDCOIL TRANSFORMERS PVT LTD	INDIA	Rev.14 : Name Updation
5.31.7	Indecoil Transformers	INDIA	Rev.14 : Name duplication
5.31.8	Intra Vidyut Pvt. Ltd	INDIA	
5.31.9	Kappa Electricals	INDIA	
5.31.10	Kirloskar Electric Co. Ltd India	INDIA	
5.31.11	Raychem RPG Private Limited	INDIA	Rev.12: Name Change
5.31.12	Sudhir Power Limited	INDIA	Rev.6: Name Change
5.31.13	Transtron Electricals Pvt Ltd India	INDIA	
5.31.14	Voltamp Transfomers	INDIA	
5.32	Neutral Grounding Resistors/Transformers (NGR / NGT)		
A	Indian Bidders		
5.32.1	Iresco Electricals Pvt. Ltd. India	INDIA	
5.32.2	National Switchgears	INDIA	
5.32.3	Resitech Electricals Pvt Ltd	INDIA	
5.32.4	RSI Switchgear Pvt Ltd	INDIA	
5.32.5	S.R. Narkhede Engineering Pvt Ltd	INDIA	
5.33	BUS DUCT (HV)		
A	Indian Bidders		
5.33.1	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.33.2	C & S Electric Ltd	INDIA	
5.33.3	<u>Elemtech</u>	<u>INDIA</u>	Rev-16 : Holiday List till 18.11.2023
5.33.4	ENPRO Engineering	INDIA	
5.33.5	Globe Electric	INDIA	
5.33.6	Schneider Electric India Private Limited	INDIA	Rev.6: Name Change
5.33.7	Narmada Switchgear Pvt. Ltd.	INDIA	
5.33.8	Spearhead Busducts Pvt Ltd	INDIA	
5.33.9	Stardrive Busducts Ltd (formerly KGS Engineering Ltd.)	INDIA	
5.33.10	United Electric Co (Delhi) Pvt Ltd	INDIA	
5.34	BUS DUCT (MV)		
A	Indian Bidders		
5.34.1	Adlec Power Pvt. Ltd.	INDIA	
5.34.2	C & S Electric Ltd.	INDIA	
5.34.3	<u>Elemtech</u>	<u>INDIA</u>	Rev-16 : Holiday List till 18.11.2023
5.34.4	Enpro Engineering India	INDIA	
5.34.5	Entraco BKS Busducts Pvt Ltd	INDIA	
5.34.6	Globe Electrical Ind	INDIA	
5.34.7	Intrelec	INDIA	
5.34.8	Jasper Engineers Pvt. Ltd,	INDIA	
5.34.9	M K Engineers & Controls Pvt Ltd	INDIA	
5.34.10	Narmada Switchgear Pvt. Ltd.	INDIA	
5.34.11	Stardrive Busducts Ltd (formerly KGS Engineering Ltd.)	INDIA	

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5.34.12	United Electric Co (Delhi) Pvt Ltd	INDIA	
5.35	CAPACITOR BANK (MV/HV) WITH APFC		
A	Indian Bidders		
5.35.1	ABB POWER PRODUCTS AND SYSTEMS INDIA LIMITED	INDIA	Rev.13: Name Change
5.35.2	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.35.3	CG Power and Industrial Solutions Ltd	INDIA	
5.35.4	Clariant Power System Ltd	INDIA	
5.35.5	Kapsales Electrical Ltd	INDIA	
5.35.6	Madhav Capacitors Pvt Ltd	INDIA	
5.35.7	Shakti Capacitors	INDIA	
5.35.8	SHREEM ELECTRIC LIMITED	INDIA	Rev.13: Name Change
5.35.9	Shreem Electric	INDIA	Rev-13 : Name Duplication
5.35.10	Universal Cables Ltd (Unistar)	INDIA	
5.36	BATTERIES-LEAD ACID (FLOODED)		
A	Indian Bidders		
5.36.1	Exide Industries Ltd.	INDIA	
5.36.2	HBL Power Systems Ltd	INDIA	
5.36.3	Amron	INDIA	
5.37	BATTERY CHARGERS		
A	Indian Bidders		
5.37.1	AMARA RAJA POWER SYSTEMS LIMITED	INDIA	Rev.13: Name Updation
5.37.2	Chhabhi Electricals Pvt Limited	INDIA	
5.37.3	Chloride Power Systems & Solutions Ltd	INDIA	
5.37.4	Dubas Engineering Pvt Ltd	INDIA	
5.37.5	HBL Power Systems Ltd	INDIA	
5.37.6	Mass-Tech Controls Pvt Ltd	INDIA	
5.37.7	UNIVERSAL INSTRUMENTS MANUFACTURING COMPANY PRIVATE LIMITED	INDIA	Rev.13: Name Updation
5.37.8	Borri Power India Pvt Ltd (Subsidiary of Borri SpA, Italy)	INDIA	
5.37.9	VERTIV ENERGY PVT LIMITED	INDIA	Rev.13: Name Updation
5.37.10	HITACHI HI-REL POWER ELECTRONICS PVT. LTD	INDIA	Rev.7: New Addition
5.38	BATTERIES-LEAD ACID (VRLA)		
A	Indian Bidders		
5.38.1	Amara Raja Batteries Ltd	INDIA	
5.38.2	Exide Industries Ltd.	INDIA	
5.38.3	HBL Power Systems Ltd	INDIA	
5.38.4	NED Energy Limited	INDIA	
5.38.5	Kirloskar Batteries Ltd	INDIA	
5.39	BATTERIES-NICKLE CADMIUM		
A	Indian Bidders		
5.39.1	Amco Saft India Ltd	INDIA	
5.39.2	HBL Power Systems Ltd	INDIA	

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5.40	UPS SYSTEM		
A	Indian Bidders		
5.40.1	Ametek Solid State Controls	INDIA	
5.40.2	Borri Power India Pvt Ltd	INDIA	
5.40.3	Consul Neowatt Power Solutions Pvt Ltd	INDIA	
5.40.4	DB Power Electronics (P) Ltd	INDIA	
5.40.5	Gutor Electronics Ltd	INDIA	
5.40.6	Hitachi Hi-Rel Power Electronics Ltd	INDIA	
5.40.7	Toshiba Mitsubishi-Electric Industrial System Corporation (TMEIC Industrial Systems India Private Limited)	INDIA	
5.40.8	Vertiv Energy Private Limited	INDIA	
5.41	A.C. VARIABLE SPEED DRIVE / VARIABLE FREQUENCY DRIVE (VFD)		
A	Indian Bidders		
5.41.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.41.2	Alstom Projects India Ltd	INDIA	
5.41.3	APS Power Systems Pvt. Ltd.	INDIA	
5.41.4	Baldor Electric Company	INDIA	
5.41.5	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.41.6	Control Technique India Pvt Ltd	INDIA	
5.41.7	Danfoss Industries Pvt Ltd	INDIA	
5.41.8	Eurotherm Del India Limited	INDIA	
5.41.9	GE Energy Power Conversion France SAS	INDIA	
5.41.10	Hitachi Hirel Power Electronics Pvt. Ltd	INDIA	
5.41.11	LARSEN & TOUBRO LIMITED	INDIA	Rev.6: Name Deletion
5.41.12	NIDEC Corporation	INDIA	
5.41.13	Rockwell Automation India Pvt Ltd	INDIA	
5.41.14	Schneider Electric India Private Limited	INDIA	
5.41.15	Siemens Ltd	INDIA	
5.41.16	Spectrum Automation And Controls	INDIA	
5.41.17	Toshiba Mitsubishi-Electric Industrial System Corporation	INDIA	
5.41.18	Vacon Controls And Drives Pvt. Ltd	INDIA	
5.42	LIGHTNING ARRESTORS		
A	Indian Bidders		
5.42.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.42.2	CG Power and Industrial Solutions Ltd	INDIA	
5.42.3	Elpro International Ltd	INDIA	
5.42.4	Oblum Electrical Ind Pvt Ltd	INDIA	
5.42.5	Siemens Ltd	INDIA	
5.42.6	W. Insulation of India	INDIA	
5.43	EARTHING & LIGHTNING PROTECTION		
A	Indian Bidders		
5.43.1	Controls & Switchgear Co.Ltd	INDIA	
5.43.2	Metalite Industries India	INDIA	
5.43.3	Premier Power Products Cal Pvt. Ltd	INDIA	
5.43.4	Vatco Elec Power Pvt Ltd	INDIA	

			
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5.44	MOTOR-INDUCTION-HV (INDUSTRIAL. TYPE SAFE AREA, EXD/EXE)		
A	Indian Bidders		
5.44.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.44.2	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.44.3	CG Power and Industrial Solutions Ltd.	INDIA	
5.44.4	Deumont Electric	INDIA	
5.44.5	Fuji Electric India Pvt Ltd	INDIA	
5.44.6	Hitachi Ltd	INDIA	
5.44.7	Kirloskar Electric Co Ltd	INDIA	
5.44.8	Marathon Electric Motor I Ltd	INDIA	
5.44.9	Siemens	INDIA	
5.44.10	TMEIC Industrial Systems India Pvt Ltd	INDIA	
5.44.11	Toshiba Mitsubishi-Electric Industrial System Corporation	INDIA	
5.44.12	WEG	INDIA	
5.45	MOTOR-INDUCTION (HV INCREASED SAFETY ZN2, FLP/PRESSURIZED)		
A	Indian Bidders		
5.45.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.45.2	Alstom Ltd	INDIA	
5.45.3	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.45.4	CG Power and Industrial Solutions Ltd	INDIA	
5.45.5	GE Power India Ltd	INDIA	
5.45.6	Kirloskar Electric Co Ltd	INDIA	
5.45.7	Marathon Electric Motor I Ltd	INDIA	
5.45.8	TMEIC Industrial Systems India Pvt Ltd	INDIA	
5.46	MOTOR INDUCTION-MV (INDL.TYPE SAFE AREA, EXD/EXE)		
A	Indian Bidders		
5.46.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.46.2	Bharat Bijlee Limited	INDIA	
5.46.3	CG Power and Industrial Solutions Ltd	INDIA	
5.46.4	Kirloskar Electric Co Ltd	INDIA	
5.46.5	Laxmi Hydraulics Pvt Ltd	INDIA	
5.46.6	Marathon Electric Motor I Ltd	INDIA	
5.46.7	NIDEC (Formerly Ansaldo System Indust/Asirobicon)	INDIA	
5.46.8	Siemens Limited	INDIA	
5.46.9	TMEIC Industrial Systems India Pvt Ltd	INDIA	
5.47	MOTOR-INDUCTION- MV (ZONE 2-TYPE E & N, FLP/PRESSURIZED)		
A	Indian Bidders		
5.47.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.47.2	Bharat Bijlee Limited	INDIA	
5.47.3	CG Power and Industrial Solutions Ltd	INDIA	
5.47.4	Kirloskar Electric Co Ltd	INDIA	
5.47.5	Laxmi Hydraulics Pvt Ltd	INDIA	
5.47.6	Marathon Electric Motor I Ltd	INDIA	

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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.47.7	TMEIC Industrial Systems India Pvt Ltd	INDIA	
5.47.8	WEG Electric India Pvt Ltd	INDIA	
5.48	MOTOR-INDUCTION-MV (FLAME PROOF)		
A	Indian Bidders		
5.48.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.48.2	Bharat Bijlee Limited	INDIA	
5.48.3	CEMP	INDIA	
5.48.4	CG Power and Industrial Solutions Ltd	INDIA	
5.48.5	Kirloskar Electric Co Ltd	INDIA	
5.48.6	Laxmi Hydraulics Pvt Ltd	INDIA	
5.48.7	Marathon Electric Motor I Ltd	INDIA	
5.48.8	Siemens Limited	INDIA	
5.48.9	TMEIC Industrial Systems India Pvt Ltd	INDIA	
5.49	SYNCHRONOUS MOTOR		
A	Indian Bidders		
5.49.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.49.2	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.49.3	GE Energy Power Conversion France SAS	INDIA	
5.49.4	Hitachi Ltd	INDIA	
5.49.5	NIDEC Corporation	INDIA	
5.49.6	Siemens Ltd	INDIA	
5.49.7	Toshiba Mitsubishi-Electric Industrial System Corporation (TMEIC Industrial Systems India Pvt Ltd)	INDIA	
5.50	MOTORS - IMPORTED		
A	Indian Bidders		
	NA		
5.51	SYNCHRONOUS GENERATORS (HV)		
A	Indian Bidders		
5.51.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.51.2	Andritz Hydro Pvt Ltd	INDIA	
5.51.3	AVK Deutschland Gmbh & Co. Kg	INDIA	
5.51.4	T D Power Systems Limited	INDIA	
5.51.5	Toshiba Mitsubishi-Electric Industrial System Corporation	INDIA	
5.52	DG SET / EMERGENCY GENERATORS (MV)		
A	Indian Bidders		
5.52.1	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
5.52.2	CG Power and Industrial Solutions Ltd	INDIA	
5.52.3	Clarke Energy System	INDIA	
5.52.4	Cummins Genrator Technologies I Ltd	INDIA	
5.52.5	Diesel Locomotive Works	INDIA	
5.52.6	Greaves Cotton Ltd.	INDIA	
5.52.7	Jaksons Limited	INDIA	
5.52.8	Jeevan Diesels & Electrical Ltd	INDIA	
5.52.9	Kirloskar Oil Engines Ltd	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.52.10	Man B & W Diesel Ltd	INDIA	
5.52.11	Nishishiba Electic Co. Ltd	INDIA	
5.52.12	Powerica Ltd	INDIA	
5.52.13	Rai Industrial Power Pvt. Ltd.	INDIA	
5.52.14	Sterling Generators Pvt. Ltd.	INDIA	
5.52.15	Sudhir Power Limited	INDIA	
5.52.16	TIL Limited (Sahibabad Works)	INDIA	
5.52.17	Trading Engineers(International) Ltd	INDIA	
5.52.18	Wartsila India Ltd	INDIA	
5.53	ACTUATORS-MOV		
A	Indian Bidders		
5.53.1	Auma India Private Ltd	INDIA	
5.53.2	Automatic Electric Ltd	INDIA	
5.53.3	Cair Euromatic Automation Pvt Ltd	INDIA	
5.53.4	Caldyne Automatic (P) Ltd	INDIA	
5.53.5	Flowserve Limitorque	INDIA	
5.53.6	Hind Rectifier Ltd	INDIA	
5.53.7	Limitorque India Limited	INDIA	
5.53.8	Marsh Automation Pvt. Ltd.	INDIA	
5.53.9	Rotork Controls (India) Ltd	INDIA	
5.54	CONTROL STATIONS- WEATHERPROOF		
A	Indian Bidders		
5.54.1	Baliga Lighting Equipments (P) Limited	INDIA	
5.54.2	Electrical Equipment Corporation	INDIA	
5.54.3	Ex-Protecta	INDIA	
5.54.4	FCG Flamproof Control Gears P. Ltd	INDIA	
5.54.5	FCG Power Industries Pvt Ltd	INDIA	
5.54.6	Flameproof Equipments Pvt.Ltd	INDIA	
5.54.7	Flexpro Electricals Pvt Ltd	INDIA	
5.54.8	PEPPERL & FUCHS MANUFACTURING (INDIA) PRIVATE LIMITED / OEM Authorised bidder: M/s. Pepperl & Fuchs (India) Pvt Ltd. – INDIA	INDIA	Rev.1: Name Change
5.54.9	Prompt Engineering Works	INDIA	
5.54.10	Sudhir Switchgears Pvt Ltd	INDIA	
5.54.11	Victory Luminaires	INDIA	
5.55	CONTROL STATIONS / PANEL-FLAME PROOF		
A	Indian Bidders		
5.55.1	Baliga Lighting Equipments (P) Limited	INDIA	
5.55.2	Cooper Crouse-Hinds	INDIA	
5.55.3	CG Power and Industrial Solutions Ltd	INDIA	
5.55.4	FCG Flamproof Control Gears P. Ltd	INDIA	
5.55.5	FCG Power Industries Pvt Ltd	INDIA	
5.55.6	Flameproof Equipments Pvt.Ltd	INDIA	
5.55.7	Flexpro Electricals Pvt Ltd	INDIA	
5.55.8	KAYSONS TECHNO EQUIPMENTS PVT LTD	INDIA	Rev.16: Name updation


			
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5.55.9	PEPPERL & FUCHS MANUFACTURING (INDIA) PRIVATE LIMITED / OEM Authorised bidder: M/s. Pepperl & Fuchs (India) Pvt Ltd. – INDIA	INDIA	Rev.1: Name Change
5.55.10	Prompt Engineering Works	INDIA	
5.55.11	R Sthal Pvt Ltd.	INDIA	
5.55.12	Sudhir Switchgears Pvt Ltd	INDIA	
5.55.13	Victory Luminaires	INDIA	
5.56	JUNCTION BOXES (FLAME PROOF)		
A	Indian Bidders		
5.56.1	Baliga Lighting Equipments (P) Limited	INDIA	
5.56.2	Cooper Crouse-Hinds	INDIA	
5.56.3	FCG Flamproof Control Gears P. Ltd	INDIA	
5.56.4	FCG Power Industries Pvt Ltd	INDIA	
5.56.5	Flameproof Equipments Pvt.Ltd	INDIA	
5.56.6	Flexpro Electricals Pvt Ltd	INDIA	
5.56.7	KAYSONS TECHNO EQUIPMENTS PVT LTD	INDIA	Rev.16: Name updation
5.56.8	PEPPERL & FUCHS MANUFACTURING (INDIA) PRIVATE LIMITED / OEM Authorised bidder: M/s. Pepperl & Fuchs (India) Pvt Ltd. – INDIA	INDIA	Rev.1: Name Change
5.56.9	Prompt Engineering Works	INDIA	
5.56.10	R Stahl Pvt Ltd.	INDIA	
5.56.11	Sudhir Switchgears Pvt Ltd	INDIA	
5.57	LIGHTING FIXTURE & ACCESSORIES-HAZARDOUS		
A	Indian Bidders		
5.57.1	Bajaj Electricals Ltd	INDIA	
5.57.2	Baliga Lighting Equipments (P) Limited	INDIA	
5.57.3	Cooper Crouse-Hinds	INDIA	
5.57.4	CG Power and Industrial Solutions Ltd	INDIA	
5.57.5	FCG Flamproof Control Gears P. Ltd	INDIA	
5.57.6	FCG Power Industries Pvt Ltd	INDIA	
5.57.7	Flameproof Equipments Pvt.Ltd	INDIA	
5.57.8	Flexpro Electricals Pvt Ltd	INDIA	
5.57.9	KAYSONS TECHNO EQUIPMENTS PVT LTD	INDIA	Rev.16: Name updation
5.57.10	PEPPERL & FUCHS MANUFACTURING (INDIA) PRIVATE LIMITED / OEM Authorised bidder: M/s. Pepperl & Fuchs (India) Pvt Ltd. – INDIA	INDIA	Rev.1: Name Change
5.57.11	Prompt Engineering Works	INDIA	
5.57.12	R Stahl	INDIA	
5.57.13	Sudhir Switchgears Pvt Ltd	INDIA	
5.57.14	Victor Product PLC	INDIA	
5.58	LIGHTING & POWER PANELS (FLP)		
A	Indian Bidders		
5.58.1	Baliga Lighting Equipments (P) Limited	INDIA	
5.58.2	FCG Flamproof Control Gears P. Ltd	INDIA	
5.58.3	FCG Power Industries Pvt Ltd	INDIA	
5.58.4	Flameproof Equipments Pvt.Ltd	INDIA	
5.58.5	Flexpro Electricals Pvt Ltd	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.58.6	KAYSONS TECHNO EQUIPMENTS PVT LTD	INDIA	Rev.16: Name updation
5.58.7	Sudhir Switchgears Pvt Ltd	INDIA	
5.59	PLUGS/SOCKETS/HANDLAMPS (FLAME PROOF)		
A	Indian Bidders		
5.59.1	Baliga Lighting Equipments (P) Limited	INDIA	
5.59.2	Cooper Crouse-Hinds	INDIA	
5.59.3	FCG Flamproof Control Gears P. Ltd	INDIA	
5.59.4	FCG Power Industries Pvt Ltd	INDIA	
5.59.5	Flameproof Equipments Pvt.Ltd	INDIA	
5.59.6	Flexpro Electricals Pvt Ltd	INDIA	
5.59.7	KAYSONS TECHNO EQUIPMENTS PVT LTD	INDIA	Rev.16: Name updation
5.59.8	PEPPERL & FUCHS MANUFACTURING (INDIA) PRIVATE LIMITED / OEM Authorised bidder: M/s. Pepperl & Fuchs (India) Pvt Ltd. – INDIA	INDIA	Rev.1: Name Change
5.59.9	Sudhir Switchgears Pvt Ltd	INDIA	
5.60	HIGH MAST LIGHTING SYSTEM		
A	Indian Bidders		
5.60.1	Bajaj Electricals Ltd	INDIA	
5.60.2	CG Power and Industrial Solutions Ltd	INDIA	
5.60.3	Philips Electronics India Limited	INDIA	
5.61	LIGHTING FIXTURES (SAFE AREA)		
A	Indian Bidders		
5.61.1	Bajaj Electricals	INDIA	
5.61.2	CG Power and Industrial Solutions Ltd	INDIA	
5.61.3	GE Lighting	INDIA	
5.61.4	Havells India	INDIA	
5.61.5	Philips Lighting	INDIA	
5.61.6	Surya Roshni India	INDIA	
5.61.7	Wipro India	INDIA	
5.61.8	PYROTECH ELECTRONICS PVT LTD	INDIA	Rev:13 : Bidder Addition
5.62	LIGHTING PANEL / POWER PANELS & DISTRIBUTION BOARDS (SAFE AREA)		
A	Indian Bidders		
5.62.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
5.62.2	Advance Panels & Switchgear (P) Ltd	INDIA	
5.62.3	C & S Electric	INDIA	
5.62.4	Havells India Ltd	INDIA	
5.62.5	Indo Asian Fusegear	INDIA	
5.62.6	Indo Chem	INDIA	
5.62.7	Industrial Switchgear & Controls (Bombay) Pvt. Ltd	INDIA	
5.62.8	Intrelec	INDIA	
5.62.9	Legrand	INDIA	

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5.62.10	M.K Engineers & Controls Pvt. Ltd	INDIA	
5.62.11	Md Switchgear Ltd	INDIA	
5.62.12	Novateur Electrical & Digital Systems Pvt Ltd	INDIA	
5.62.13	Standard Electricals	INDIA	
5.62.14	Zenith Engineering Corporation	INDIA	
5.63	EXTRA HIGH VOLTAGE –XLPE CABLES		
A	Indian Bidders		
5.63.1	Cable Corporation of India Limited	INDIA	Rev.3:Name Updation
5.63.2	Finolex Cables Ltd.	INDIA	
5.63.3	KEC International Ltd	INDIA	
5.63.4	KEI Industries Limited	INDIA	
5.63.5	POLYCAB INDIA LIMITED	INDIA	Rev.3:Name Updation
5.63.6	Sterlite Power Transmission Limited (under Sterlite Technologies Limited)	INDIA	
5.63.7	TCL CABLES PRIVATE LIMITED	INDIA	Rev.13:Name Updation
5.63.8	Universal Cables Limited	INDIA	
5.64	CABLES-HIGH VOLTAGE-XLPE (FRLS)		
A	Indian Bidders		
5.64.1	APAR Industries Ltd	INDIA	
5.64.2	Cable Corporation of India Limited	INDIA	Rev.3:Name Updation
5.64.3	Finolex Cables Ltd.	INDIA	
5.64.4	Gemscab Industries Ltd	INDIA	
5.64.5	Gupta Power Infrastructure Limited	INDIA	Rev.3:Name Updation
5.64.6	Havells India Ltd	INDIA	
5.64.7	Insucon Cable And Cond Pvt Ltd	INDIA	
5.64.8	KEC International Ltd	INDIA	
5.64.9	KEI Industries Ltd	INDIA	
5.64.10	POLYCAB INDIA LIMITED	INDIA	Rev.3:Name Updation
5.64.11	Sterlite Technologies Limited	INDIA	
5.64.12	Suraj Cables	INDIA	
5.64.13	TCL CABLES PRIVATE LIMITED	INDIA	Rev.14:Name Updation
5.64.14	Universal Cables Ltd	INDIA	
5.65	MV POWER CABLE - FIRE SURVIVAL (FRLS)		
A	Indian Bidders		
5.65.1	Ajanta Electric Industries	INDIA	Rev.3:Name Updation
5.65.2	Associated Flexibles & Wires [P] Ltd	INDIA	
5.65.3	Cords Cable Industries Ltd	INDIA	
5.65.4	Gupta Power Infrastructure Limited	INDIA	Rev.3:Name Updation
5.65.5	Havells India Ltd	INDIA	
5.65.6	Insucon Cable And Cond Pvt Ltd	INDIA	
5.65.7	KEI Industries Limited	INDIA	
5.65.8	POLYCAB INDIA LIMITED	INDIA	Rev.3:Name Updation
5.65.9	Suraj Cables	INDIA	
5.65.10	SUYOG ELECTRICALS LIMITED	INDIA	Rev.7: New Addition


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5.66	CABLES-MEDIUM VOLTAGE-POWER-XLPE & PVC		
A	Indian Bidders		
5.66.1	Ajanta Electric Industries	INDIA	Rev.3:Name Updation
5.66.2	APAR Industries Ltd	INDIA	
5.66.3	Associated Flexibles & Wires [P] Ltd	INDIA	
5.66.4	Cable Corporation of India Limited	INDIA	Rev.3:Name Updation
5.66.5	Cords Cable Industries Ltd	INDIA	
5.66.6	Finolex Cables Ltd.	INDIA	
5.66.7	Gemscab Industries Ltd	INDIA	
5.66.8	Gupta Power Infrastructure Limited	INDIA	Rev.3:Name Updation
5.66.9	Havells India Ltd	INDIA	
5.66.10	Insucon Cable And Cond Pvt Ltd	INDIA	
5.66.11	KEC International Ltd	INDIA	
5.66.12	KEI Industries Limited	INDIA	
5.66.13	POLYCAB INDIA LIMITED	INDIA	Rev.3:Name Updation
5.66.14	Rallison Electricals Pvt. Ltd.	INDIA	
5.66.15	Ravin Cables Limited	INDIA	Rev.6: Name Change
5.66.16	Special Cables Pvt Ltd	INDIA	
5.66.17	Sriram Cables Pvt Ltd	INDIA	
5.66.18	Suraj Cables	INDIA	
5.66.19	TCL CABLES PRIVATE LIMITED	INDIA	Rev.14:Name Updation
5.66.20	Apar Industries Limited	INDIA	Rev.3:Name Change
5.66.21	Universal Cables Ltd	INDIA	
5.66.22	SUYOG ELECTRICALS LIMITED	INDIA	Rev-4 : Bidder addition
5.67	CABLES: CONTROL-XLPE & PVC		
A	Indian Bidders		
5.67.1	Ajanta Electric Industries	INDIA	Rev.3:Name Updation
5.67.2	Associated Cables Pvt Ltd	INDIA	
5.67.3	Associated Flexibles & Wires [P] Ltd	INDIA	
5.67.4	Cables Corporation of India Limited	INDIA	Rev.11 :Name Updation
5.67.5	CMI Limited	INDIA	
5.67.6	Cords Cable Industries Ltd	INDIA	
5.67.7	Delton Cables Limited	INDIA	
5.67.8	Ecko Cables Pvt. Ltd.	INDIA	
5.67.9	Elkay Telelinks Ltd.	INDIA	
5.67.10	Finolex Cables Ltd.	INDIA	
5.67.11	Gemscab Industries Ltd	INDIA	
5.67.12	Havells India Ltd	INDIA	
5.67.13	Icon Cable Ltd.	INDIA	
5.67.14	Insucon Cables And Cond Pvt Ltd	INDIA	
5.67.15	KEC International Ltd	INDIA	
5.67.16	KEI Industries Limited	INDIA	
5.67.17	North Eastern Cables Pvt. Ltd.	INDIA	
5.67.18	POLYCAB INDIA LIMITED	INDIA	Rev.3:Name Updation
5.67.19	Rallison Electricals Pvt. Ltd.	INDIA	
5.67.20	Ravin Cables Limited	INDIA	Rev.6: Name Change

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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.67.21	Reliance Engineers Ltd.	INDIA	
5.67.22	Scot Innovation Wires & Cables Pvt. Ltd.	INDIA	
5.67.23	Special Cables Pvt. Ltd.	INDIA	
5.67.24	Sriram Cables Pvt Ltd	INDIA	
5.67.25	Suraj Cables	INDIA	
5.67.26	SUYOG ELECTRICALS LIMITED	INDIA	Rev.4:Name Updation
5.67.27	Thermo Cables Ltd.	INDIA	
5.67.28	TCL CABLES PRIVATE LIMITED	INDIA	Rev.14:Name Updation
5.67.29	Universal Cables Ltd	INDIA	
5.68	CABLES-FIRE ALARM AND COMMN.		
A	Indian Bidders		
5.68.1	CMI Limited	INDIA	
5.68.2	Cords Cable Industries Ltd	INDIA	
5.68.3	Delton Cables Limited	INDIA	
5.68.4	Elkay Telelinks Ltd.	INDIA	
5.68.5	KEI Industries Limited	INDIA	
5.68.6	Reliance Engineers Ltd	INDIA	
5.68.7	Vindhya Telelinks Ltd	INDIA	
5.68.8	SUYOG ELECTRICALS LIMITED	INDIA	Rev-4 : Bidder addition
5.69	CONTROL CABLE - FIRE SURVIVAL (FRLS)		
A	Indian Bidders		
5.69.1	Associated Flexibles & Wires [P] Ltd	INDIA	
5.69.2	Cords Cable Industries Ltd	INDIA	
5.69.3	Elkay Telelinks Ltd.	INDIA	
5.69.4	Havells India Ltd	INDIA	
5.69.5	Icon Cable Ltd.	INDIA	
5.69.6	KEI Industries Limited	INDIA	
5.69.7	POLYCAB INDIA LIMITED	INDIA	Rev.3:Name Updation
5.69.8	Suyog Electricals Ltd	INDIA	
5.69.9	Thermo Cables Ltd	INDIA	
5.70	CABLES COMMUNICATION (JELLY FIELD)		
A	Indian Bidders		
5.70.1	Birla Cable Ltd (formerly Birla Ericsson Optical Ltd)	INDIA	
5.70.2	CMI Limited	INDIA	
5.70.3	Cords Cable Industries Ltd	INDIA	
5.70.4	Delton Cables Ltd	INDIA	
5.70.5	Elkay Telelinks Ltd	INDIA	
5.70.6	Finolex Cables Ltd	INDIA	
5.70.7	KEC International Ltd	INDIA	
5.70.8	KEI Industries Limited	INDIA	
5.70.9	Usha Beltron Ltd	INDIA	
5.70.10	Vindhya Telelinks Ltd	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.71	PLANT COMMUNICATION SYSTEM (PA / PAGING)		
A	Indian Bidders		
5.71.1	Armtel LLC	INDIA	
5.71.2	Siemens Enterprise Communications	INDIA	
5.72	TELEPHONE (Instrument / EPABX)		
A	Indian Bidders		
5.72.1	AGC	INDIA	
5.72.2	Aviva	INDIA	
5.72.3	Dee Em Systems	INDIA	
5.72.4	Fibcom India Limited	INDIA	
5.72.5	Laraon Engineers & Consultants Pvt. Ltd	INDIA	Rev-15 : Delisted from Holiday list
5.72.6	Maxtel (Panasonic)	INDIA	
5.72.7	NEC	INDIA	
5.72.8	Philips	INDIA	
5.72.9	Progility	INDIA	
5.72.10	Siemens (Unify)	INDIA	

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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.73	TETRA SYSTEM		
A	Indian Bidders		
5.73.1	EADS India Pvt Ltd	INDIA	
5.73.2	Rohde & Schwarz India Pvt Ltd	INDIA	
5.73.3	Selex Communications	INDIA	
5.73.4	Simoco Telecommunications (South Asia) Ltd	INDIA	
5.73.5	Motorola	INDIA	
5.74	FIRE ALARM SYSTEM		
A	Indian Bidders		
5.74.1	D.D. Electronic Equipment Pvt Ltd (D.D. Systems)	INDIA	
5.74.2	Dynamic Engineers Ltd	INDIA	
5.74.3	Edward International	INDIA	
5.74.4	Honeywell Automation India Ltd.	INDIA	
5.74.5	Mather & Platt India Ltd	INDIA	
5.74.6	New Fire Engineers (P) Ltd	INDIA	
5.74.7	Tyco Fire & Security India Pvt. Ltd	INDIA	
5.74.8	Vijay Fire Protection Sytem Ltd	INDIA	
5.75	ELECTRICAL HEAT TRACING SYSTEM		
A	Indian Bidders		
5.75.1	BARTEC INDIA PRIVATE LIMITD	INDIA	Rev.14: Name Updation
5.75.2	NVENT THERMAL INDIA PRIVATE LIMITED	INDIA	Rev.14: Name Updation
5.75.3	Raychem RPG Private Limited	INDIA	Rev.12: Name Change
5.75.4	THERMON INDIA PRIVATE LIMITED	INDIA	Rev.14: Name Updation
5.75.5	Thermopads Pvt Ltd	INDIA	
5.75.6	Tyco India Ltd	INDIA	
5.75.7	XICON INTERNATIONAL LIMITED	INDIA	Rev.14: Name Updation
5.75.8	CHROMALOX INDIA PRECISION HEAT & CONTROL PRIVATE LIMITED	INDIA	Rev.14: Name Updation
5.75.9	HEAT TRACE INDIA PVT. LTD	INDIA	Rev.16: Bidder Addition
5.76	CATHODIC PROTECTION SYSTEM		
A	Indian Bidders		
5.76.1	BSS Tech CP India Pvt. Ltd.	INDIA	
5.76.2	Cathodic Control Company	INDIA	
5.76.3	Consultants – Baroda	INDIA	
5.76.4	Consultech Cathodic Protection Engrs & India	INDIA	
5.76.5	Corrosion Control Services Pvt. Ltd.	INDIA	
5.76.6	Corrosion Technology Services	INDIA	
5.76.7	Corrtech International	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.76.8	Raychem RPG Private Limited	INDIA	Rev.12: Name Change
5.76.9	Sark EPC Projects	INDIA	
5.76.10	Scientific Metal Engineers	INDIA	
5.77	CABLE TRAYS GI /SS (Perforated /Ladder) & CABLE DUCTS		
A	Indian Bidders		
5.77.1	Elcon Cable Trays Pvt Ltd	INDIA	
5.77.2	Globe Elect. Industries Ltd. India	INDIA	
5.77.3	IDS Composites	INDIA	
5.77.4	Indiana Cable Trays	INDIA	
5.77.5	Metalemmms Bombay Pvt. Ltd.	INDIA	
5.77.6	National Galvaniser	INDIA	
5.77.7	OBO Bettermann India Pvt Ltd	INDIA	
5.77.8	Patny Systems Pvt Ltd	INDIA	
5.77.9	Premier Power Products Cal Pvt. Ltd	INDIA	
5.77.10	Profab Engineers Pvt Ltd	INDIA	
5.77.11	Ratan Projects & Engineering Co. Pvt. Ltd.	INDIA	
5.77.12	Rukmani Electrical & Components	INDIA	
5.77.13	Steelite Engineering Limited	INDIA	
5.77.14	Vatco Elec Power Pvt Ltd	INDIA	
5.78	CABLE TRAYS FRP		
A	Indian Bidders		
5.78.1	Arvind Composites India	INDIA	
5.78.2	Ercon India	INDIA	
5.78.3	Sumip Composites India	INDIA	
5.78.4	Syntex India	INDIA	
5.79	CABLE JOINTS & TERMINATION KITS		
A	Indian Bidders		
5.79.1	3M Electro & Communication India Pvt. Ltd. India	INDIA	
5.79.2	ABB india limited	INDIA	Rev.2: Name Change
5.79.3	Euromold (Nexans India)	INDIA	
5.79.4	Fischer	INDIA	
5.79.5	Heatshrink Technologies Ltd. India	INDIA	
5.79.6	Nkt	INDIA	
5.79.7	Raychem RPG Private Limited	INDIA	Rev.12: Name Change
5.80	CABLE GLANDS (FOR HAZARDOUS AREA)		
A	Indian Bidders		
5.80.1	Baliga Lighting Eqpts Ltd	INDIA	
5.80.2	Comet Brass Products	INDIA	
5.80.3	FCG Flameproof Control Gears Pvt. Ltd	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
5.80.4	FCG Power Ind Pvt Ltd	INDIA	
5.80.5	Flameproof Equipment Pvt. Ltd	INDIA	
5.80.6	Flexpro Electricals Pvt Ltd	INDIA	
5.80.7	KAYSONS TECHNO EQUIPMENTS PVT LTD	INDIA	Rev.16: Name updation
5.80.8	Sudhir Switchgears Pvt Ltd	INDIA	
5.80.9	R Stahl	INDIA	
5.80.10	Standard Metal Industries	INDIA	
5.81	LIGHTING POLES (GALVANISED)		
A	Indian Bidders		
5.81.1	KI Industries	INDIA	
5.81.2	Shah Engg	INDIA	
5.81.3	India Electric Poles Mfg.Co	INDIA	
5.82	NIFPS (NITROGEN INJECTED FIRE PROTECTION SYSTEM)		
A	Indian Bidders		
5.82.1	CTR Manufacturing India Ltd	INDIA	
5.83	DC MOTORS		
A	Indian Bidders	Not Available	
	NIL		



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.1	TUBE FITTINGS		
A	INDIAN BIDDERS		
6.1.1	ARYA CRAFTS & ENGINEERING PVT LTD	INDIA	
6.1.2	ASTEC VALVES & FITTINGS PVT. LTD.	INDIA	
6.1.3	CIRCOR INSTR. TECHNOLOGIES INC-	INDIA	
6.1.4	COMFIT & VALVES PVT. LTD.	INDIA	
6.1.5	EXCEL HYDRO PNEUMATICS PVT LTD	INDIA	
6.1.6	EXCELSIOR ENGG. WORKS	INDIA	
6.1.7	FLUID CONTROLS PVT LTD	INDIA	
6.1.8	MULTIMETAL INDUSTRIES	INDIA	
6.1.9	PANAM ENGINEERS	INDIA	
6.1.10	PARKER HANNIFIN CORPORATION	INDIA	
6.1.11	PRIME ENGINEERS	INDIA	
6.1.12	RELIANCE ENGINEERING & ELECTRICALS CORPN	INDIA	Rev-16 : Holiday List till 03.11.2023
6.1.13	SEALEXCEL (INDIA) PVT. LTD.	INDIA	
6.1.14	SWASTIK ENGINEERING WORKS	INDIA	
6.1.15	TK FUJIKIN CORPORATION	INDIA	
6.1.16	WESMEC ENGINEERING PVT. LTD	INDIA	
6.1.17	PRECISION ENGINEERING INDUSTRIES	INDIA	
6.1.18	MET-LOK VALVES AND FITTINGS	INDIA	Rev.12: NEW ADDITION
6.1.19	HAVI ENGINEERING INDIA PRIVATE LIMITED	INDIA	Rev.16: NEW ADDITION
6.2	INSTRUMENT TUBING		
A	INDIAN BIDDERS		
6.2.1	HEAVY METALS & TUBES LIMITED	INDIA	
6.2.2	JINDAL SAW LTD	INDIA	
6.2.3	RATNAMANI METALS AND TUBES LTD	INDIA	
6.2.4	REMI EDELSTAHL TUBULARS LTD	INDIA	
6.2.5	TK FUJIKIN CORPORATION	INDIA	
6.2.6	NUCLEAR FUEL COMPLEX	INDIA	
6.3	MACHINE MONITORING SYSTEMS		
A	INDIAN BIDDERS		
6.3.1	GE OIL & GAS INDIA PVT LTD	INDIA	Rev.2: Name Update
6.3.2	ROCKWELL AUTOMATION INDIA PVT LTD	INDIA	
6.3.3	BURCKHARDT COMPRESSION INDIA PVT LTD	INDIA	Rev.12: Name Updation
6.3.4	FORBES MARSHALL PVT. LTD, INDIA : Authorised Representative/Business Partner (MAKE SHINKAWA ELECTRIC COMPANY LTD, JAPAN)	INDIA	Rev.16: Name Updation
6.4	THERMO COUPLE EXTN.CABLES		
A	INDIAN BIDDERS		
6.4.1	ASSOCIATED CABLES PVT LTD	INDIA	
6.4.2	ASSOCIATED FLEXIBLES & WIRES [P] LTD	INDIA	
6.4.3	CORDS CABLE INDUSTRIESLTD	INDIA	
6.4.4	DELTON CABLES LIMITED	INDIA	
6.4.5	KEI INDUSTRIES LIMITED	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.4.6	T C COMMUNICATION PVT. LTD.	INDIA	
6.4.7	THERMO CABLES LTD	INDIA	
6.4.8	UDEY PYROCABLES PVT. LTD.	INDIA	
6.5	SIGNAL CABLES		
A	INDIAN BIDDERS		
6.5.1	ASSOCIATED CABLES PVT LTD	INDIA	
6.5.2	ASSOCIATED FLEXIBLES & WIRESPRIVATE LTD	INDIA	
6.5.3	CMI LIMITED	INDIA	
6.5.4	CORDS CABLE INDUSTRIES LTD	INDIA	
6.5.5	DELTON CABLES LIMITED	INDIA	
6.5.6	ELKAY TELELINKS LTD.	INDIA	
6.5.7	KEC INETRNLATIONAL LIMITED	INDIA	
6.5.8	KEI INDUSTRIES LIMITED	INDIA	
6.5.9	LEONI CABLE SOLUTIONS (INDIA) PVT LTD.	INDIA	
6.5.10	POLYCAB INDIA LIMITED	INDIA	Rev.4: Name Change
6.5.11	RALLISON ELECTRICALS PVT. LTD.	INDIA	
6.5.12	SUYOG ELECTRICALS LTD	INDIA	
6.5.13	T C COMMUNICATION PVT. LTD.	INDIA	
6.5.14	THERMO CABLES LTD	INDIA	
6.5.15	UDEY PYROCABLES PVT. LTD.	INDIA	
6.5.16	LAPP INDIA PVT LTD	INDIA	
6.6	OPTICAL FIBRE CABLE & ASSOC.ITEM		
A	INDIAN BIDDERS		
6.6.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.6.2	AKSH OPTIFIBRE LIMITED	INDIA	
6.6.3	APAR INDUSTRIES LTD (UNIT : UNIFLEX CABLES)	INDIA	Rev.13: Name Updation
6.6.4	BIRLA CABLE LIMITED	INDIA	Rev.11: Name Updation
6.6.5	FINOLEX CABLES LTD.	INDIA	
6.6.6	HIMACHAL FUTURISTIC COMMUNICATIONS LTD.	INDIA	Rev.13: Name Updation
6.6.7	KEC INTERNATIONAL LIMITED	INDIA	Rev.11: Name Updation
6.6.8	STERLITE TECHNOLOGIES LIMITED	INDIA	Rev.11: Name Updation
6.6.9	SUDARSHAN TELECOM (A DIV. OF THE WESTCOAST PAPER MILL L.)	INDIA	Rev.13: Name Updation
6.6.10	U M CABLES LTD	INDIA	
6.6.11	VINDHYA TELELINKS LIMITED	INDIA	
6.6.12	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.7	FIELD BUS SIGNAL CABLES		
A	INDIAN BIDDERS		
6.7.1	ASSOCIATED FLEXIBLES & WIRES [P] LTD	INDIA	
6.7.2	BELDEN INC	INDIA	
6.7.3	CORDS CABLE INDUSTRIES LTD	INDIA	
6.7.4	LAPP INDIA PVT LTD	INDIA	
6.7.5	SUYOG ELECTRICALS LIMITED	INDIA	Rev-8 : Bidder addition



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.8	SIGNAL CABLE - FIRE RESISTANT		
A	INDIAN BIDDERS		
6.8.1	ASSOCIATED FLEXIBLES & WIRES [P] LTD	INDIA	
6.8.2	CORDS CABLE INDUSTRIES LTD	INDIA	
6.8.3	ELKAY TELELINKS LTD.	INDIA	
6.8.4	KEI INDUSTRIES LIMITED	INDIA	
6.8.5	POLYCAB INDIA LIMITED	INDIA	Rev.4: Name Change
6.8.6	SUYOG ELECTRICALS LTD	INDIA	
6.8.7	THERMO CABLES LTD	INDIA	
6.8.8	ASSOCIATED CABLES PVT LTD	INDIA	
6.8.9	UDEY PYROCABLES PVT LTD	INDIA	
6.8.10	TC COMMUNICATION PVT LTD	INDIA	
6.8.11	Lapp India Pvt Ltd	INDIA	
6.8.12	Leoni Cable Solutions (India) Pvt. Ltd.	INDIA	
6.9	SPECIAL LEVEL INSTRUMENTS (TUNNING FORK)		
A	INDIAN BIDDERS		
6.9.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.9.2	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.9.3	NIVO CONTROLS PVT LTD	INDIA	
6.9.4	SAPCON INSTRUMENTS PVT LTD	INDIA	
6.9.5	VEGA INDIA LEVEL & PRESSURE MEASUREMENT PVT LTD	INDIA	
6.9.6	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.10	COPPER TUBES (COATED, BARE)		
A	INDIAN BIDDERS		
6.10.1	MEHTA TUBES LIMITED	INDIA	
6.10.2	MULTIMETALS LIMITED	INDIA	
6.10.3	RAJCO METAL INDUSTRIES P LTD	INDIA	
6.10.4	KAMANI TUBES	INDIA	
6.10.5	RELIANCE ENGINEERS LTD	INDIA	
6.10.6	ALCOBEX METAILS PVT LTD	INDIA	
6.10.7	HIDUSTAN STEEL & METAL WORKS	INDIA	
6.10.8	INDUSTRIAL TUBES	INDIA	
6.11	CORROSION MONITORS		
A	INDIAN BIDDERS		
6.11.1	PEPPERL + FUCHS GMBH	INDIA	
6.11.2	CHEMTREAT INDIA LIMITED	INDIA	
6.11.3	MANAN ENGINEERING CORPORATION	INDIA	
6.11.4	ALLWYN INDUSTRIES	INDIA	
6.12	CONTROL VALVE POSITIONER / SMART POSITIONER		
A	INDIAN BIDDERS		



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.12.1	FLOWSERVE INDIA CONTROLS PVT LTD- BANGALORE	INDIA	
6.12.2	SAMSON CONTROLS PVT LTD	INDIA	
6.12.3	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	Rev.12: Name Change
6.12.4	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022
6.12.5	DRESSER	INDIA	
6.13	SOLENOID VALVES		
A	INDIAN BIDDERS		
6.13.1	ASCO NUMATICS (INDIA) P. LIMITED	INDIA	
6.13.2	AVCON CONTROLS PVT. LTD.	INDIA	
6.13.3	HERION WERKE	INDIA	
6.13.4	PRECISION INSTRUMENT COMPANY	INDIA	
6.13.5	ROTEX AUTOMATION LTD.	INDIA	
6.13.6	SCHRADER DUNCAN LIMITED	INDIA	
6.13.7	ASCO JOUCOMATIC LTD	INDIA	
6.14	CONTROL VALVES		
A	INDIAN BIDDERS		
6.14.1	FORBES MARSHALL ARCA PRIVATE LIMITED	INDIA	Rev.3:Name Change
6.14.2	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	
6.14.3	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev.3:Name updation
6.14.4	GE OIL & GAS INDIA PVT LTD	INDIA	Rev.2: Name Update
6.14.5	INSTRUMENTATION LIMITED	INDIA	
6.14.6	KOSO INDIA PVT LTD	INDIA	
6.14.7	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022
6.14.8	KSB MIL CONTROLS LIMITED	INDIA	Rev.3:Name Change
6.14.9	SAMSON CONTROLS PVT LTD	INDIA	
6.14.10	SEVERN GLOCON INDIA PVT LTD	INDIA	
6.14.11	SPX FLOW TECHNOLOGY INDIA PRIVATE LIMITED	INDIA	Rev.3:Name Change
6.14.12	GE INDIA INDUSTRIAL PVT LTD (DRESSER)	INDIA	
6.14.13	CONTROL COMPONENT INDIA PVT LTD.	INDIA	
6.14.14	BRAY CONTROLS (I) PVT LTD	INDIA	
6.14.15	CONTINENTAL VALVE LIMITED	INDIA	Rev-11 : Name Addition
6.15	PRESSURE RELIEF VALVE		
A	INDIAN BIDDERS		
6.15.1	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
6.15.2	BLISS ANAND PVT LTD	INDIA	
6.15.3	DARLING MUESCO (INDIA) PVT. LTD	INDIA	
6.15.4	GE OIL & GAS INDIA PVT LTD	INDIA	Rev.2: Name Update
6.15.5	FAINGER LESER VALVES (P) LTD.	INDIA	
6.15.6	INSTRUMENTATION LIMITED	INDIA	Rev.1: Name Change
6.15.7	TRILLIUMFLOW TECHNOLOGIES INDIA PVT LTD	INDIA	Rev.1: Name Change
6.15.8	ANDERSON GREENWOOD CROSBY SANMAR LIMITED	INDIA	Rev.5:Name Change
6.15.9	UNIKLINGER LIMITED	INDIA	Rev.5:New Addition



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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-D (INSTRUMENTATION)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
6.15.10	NIRMAL INDUSTRIAL CONTROLS PRIVATE LIMITED	INDIA	Rev.12: Name Updation
6.16	INSTRUMENT VALVES & MANIFOLDS		
A	INDIAN BIDDERS		
6.16.1	ANDERSON GREENWOOD CROSBY SANMAR LIMITED	INDIA	Rev.14:Name Duplication
6.16.2	ARYA CRAFTS & ENGINEERING PVT LTD	INDIA	
6.16.3	ASTEC VALVES & FITTINGS PVT. LTD.	INDIA	
6.16.4	BAUMER TECHNOLOGIES INDIA PVT.LTD	INDIA	
6.16.5	CIRCOR INSTR. TECHNOLOGIES INC	INDIA	
6.16.6	COMFIT & VALVES PVT. LTD.	INDIA	
6.16.7	EXCEL HYDRO PNEUMATICS PVT LTD	INDIA	
6.16.8	EXCELSIOR ENGG. WORKS	INDIA	
6.16.9	FLUID CONTROLS PVT LTD	INDIA	
6.16.10	MICRO PRECISION PRODUCTS PVT LTD	INDIA	
6.16.11	PANAM ENGINEERS	INDIA	
6.16.12	PARKER HANNIFIN CORPORATION	INDIA	
6.16.13	PRIME ENGINEERS	INDIA	
6.16.14	SWASTIK ENGINEERING WORKS	INDIA	
6.16.15	TK FUJIKIN CORPORATION	INDIA	
6.16.16	WESMEC ENGINEERING PVT LTD.	INDIA	
6.16.17	CHEMTROLS INDUSTRIES LTD	INDIA	Rev:9 : Holiday List upto 29.07.2022
6.16.18	PRECISION ENGINEERING INDUSTRIES	INDIA	
6.16.19	ANDERSON GREENWOOD CROSBY SANMAR LIMITED	INDIA	Rev.5:Name Change
6.16.20	TECNOMATIC INDIA PVT LTD	INDIA	
6.16.21	MET-LOK VALVES AND FITTINGS	INDIA	Rev.12: NEW ADDITION
6.16.22	HAVI ENGINEERING INDIA PRIVATE LIMITED	INDIA	Rev.16: NEW ADDITION
6.17	TANK PR. PROTECT. DEVICES / FLAME ARRESSTER		
A	INDIAN BIDDERS		
6.17.1	ANDERSON GREENWOOD CROSBY SANMAR Ltd.	INDIA	
6.17.2	ANDERSON GREENWOOD VAREC	INDIA	
6.17.3	BRAUNSCHWEIGER FLAMMENFILTER	INDIA	
6.17.4	GROTH CORPORATION	INDIA	
6.17.5	PRESSURE &FLOW CONTROL INDUSTRIES	INDIA	
6.17.6	PROTEGO INDIA PVT LTD	INDIA	
6.18	ON-OFF VALVES		
A	INDIAN BIDDERS		
6.18.1	BRAY CONTROLS INDIA PVT LTD	INDIA	
6.18.2	EL-O-MATIC INDIA (PVT) LTD.	INDIA	
6.18.3	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	REV:12 : NAME UPDATION
6.18.4	FLOWSERVE INDIA CONTROLS PVT. LTD.	INDIA	
6.18.5	KOSO INDIA PVT. LIMITED	INDIA	
6.18.6	L&T VALVES LIMITED	INDIA	
6.18.7	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.18.8	MICROFINISH VALVES PVT LIMITED	INDIA	
6.18.9	SPX FLOW TECHNOLOGY INDIA PRIVATE LIMITED	INDIA	Rev.3:Name Change
6.18.10	TRILLIUMFLOW TECHNOLOGIES INDIA PVT LTD	INDIA	Rev.1: Name Change
6.18.11	SAMSON CONTROLS PVT LTD	INDIA	Rev.10:Name Update
6.18.12	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
6.18.13	FOURESS ENGINEERING (INDIA) PRIVATE LIMITED	INDIA	Rev.3: Name Change
6.18.14	CONTINENTAL VALVE LIMITED	INDIA	Rev-11 : Name Addition
6.18.15	ADVANCE VALVES PVT. LTD	INDIA	Rev-14 : Name Addition
6.19	SELF ACTUATED PR. CONTROL VALVES		
A	INDIAN BIDDERS		
6.19.1	ELSTER-INSTROMET INDIA PVT LTD (HONEYWELL)	INDIA	
6.19.2	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	
6.19.3	GE OIL & GAS INDIA PVT LTD	INDIA	Rev.2: Name Update
6.19.4	KSB MIL CONTROLS LIMITED	INDIA	Rev.4: Name Update
6.19.5	NIRMAL INDUSTRIAL CONTROLS PRIVATE LIMITED	INDIA	Rev.12: Name Updation
6.19.6	SAMSON CONTROLS PVT LTD	INDIA	
6.19.7	BRAY CONTROLS (I) PVT LTD	INDIA	
6.19.8	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
6.20	SPECIAL CONTROL VALVES (BUTTERFLY)		
A	INDIAN BIDDERS		
6.20.1	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	REV:12 : NAME UPDATION
6.20.2	FLOWSERVE INDIA CONTROLS PVT LTD- BANGALORE	INDIA	
6.20.3	GE OIL & GAS INDIA PVT LTD	INDIA	Rev.2: Name Update
6.20.4	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022
6.20.5	SPX FLOW TECHNOLOGY INDIA PRIVATE LIMITED	INDIA	Rev.3:Name Change
6.20.6	WEIR VALVES & CONTROLS UK LTD	INDIA	
6.20.7	SAMSON CONTROLS PVT LTD	INDIA	Rev.10:Name Update
6.20.8	GE INDIA INDUSTRIAL PVT LTD (DRESSER)	INDIA	
6.20.9	BRAY CONTROLS (I) PVT LTD	INDIA	
6.20.10	DELVAL FLOW CONTROLS PRIVATE LIMITED	INDIA	Rev:8 : Holiday List upto 30.03.23
6.20.11	FOURESS ENGINEERING (INDIA) PRIVATE LIMITED	INDIA	Rev-12 : Name Updation
6.20.12	LARSEN & TOUBRO LIMITED	INDIA	Rev.2: Name Change
6.20.13	INTERVALVE POONAWALA LTD.	INDIA	Rev.5: Name Change
6.20.14	INTEGRAL PROCESS CONTROLS (INDIA) PRIVATE LIMITED	INDIA	Rev.5: Name Change
6.20.15	SEVERN GLOCON INDIA PVT LTD	INDIA	Rev.7: New Addition
6.21	DESUPERHEATERS & PRDS		
A	INDIAN BIDDERS		
6.21.1	BOMAFSA SPECIAL VALVE SOLUTIONS PVT. LTD.	INDIA	
6.21.2	CIRCOR FLOW TECHNOLOGIES INDIA PVT LTD	INDIA	
6.21.3	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	Rev.7: Name Change



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.21.4	FORBES MARSHALL ARCA P LTD.	INDIA	
6.21.5	H.K. INDUSTRIES	INDIA	
6.21.6	LEPRETFLOW ENGINEERING PVT LTD	INDIA	
6.21.7	MAZDA LTD	INDIA	
6.21.8	INSTRUMENTATION LIMITED	INDIA	Rev.1: Name Change
6.21.9	<u>CHEMTROLS INDUSTRIES LTD</u>	<u>INDIA</u>	Rev:9 : Holiday List upto 29.07.2022
6.21.10	INDITECH VALVES PVT LIMITED	INDIA	
6.22	PR. REGULATOR & SLAM SHUT VALVES		
A	INDIAN BIDDERS		
6.22.1	ELSTER-INSTROMET INDIA PVT LTD (HONEYWELL)	INDIA	
6.22.2	NIRMAL INDUSTRIAL CONTROLS PRIVATE LIMITED	INDIA	Rev.12: Name Updation
6.22.3	RMG-REGEL-MESSTECHNIK GMBH	INDIA	Rev.9: Country Change
6.23	PILOT OPERATED SAFETY VALVES		
A	INDIAN BIDDERS		
6.23.1	ANDERSON GREENWOOD CROSBY SANMAR LIMITED	INDIA	
6.23.2	BLISS ANAND PVT LTD	INDIA	
6.23.3	GE OIL & GAS INDIA PVT LTD	INDIA	Rev.2: Name Update
6.23.4	FAINGER LESER VALVES (P) LTD.	INDIA	
6.23.5	<u>ANDERSON GREENWOOD CROSBY SANMAR LIMITED</u>	<u>INDIA</u>	Rev.14:Name Duplication
6.23.6	DARLING MUESCO INDIA PVT LTD	INDIA	
6.24	PROCESS STREAM ANALYSERS (O2-ZIRCONIA)		
A	INDIAN BIDDERS		
6.24.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.24.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.24.3	SECO CONTROLS PVT LTD	INDIA	
6.24.4	SERVOMEX GROUP LTD.	INDIA	
6.24.5	YOKOGAWA INDIA LIMITED	INDIA	
6.24.6	GE SENSING EMEA	INDIA	
6.25	GAS CHROMATOGRAPH (PROCESS)		
A	INDIAN BIDDERS		
6.25.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.25.2	APPLIED INSTRUMENTS TECHNOLOGIES INC.	INDIA	
6.25.3	ELSTER-INSTROMET INDIA PVT LTD (HONEYWELL)	INDIA	
6.25.4	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.25.5	YOKOGAWA INDIA LIMITED	INDIA	
6.25.6	SIEMENS AG	INDIA	Rev.7: Country Change
6.26	STACK GAS ANALYSER SYSTEMS (EXTRACTIVE)		
A	INDIAN BIDDERS		
6.26.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.26.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.26.3	ENVIRONNEMENT S.A.	INDIA	
6.26.4	HORIBA LTD	INDIA	
6.26.5	SERVOMEX GROUP LTD.	INDIA	
6.26.6	THERMO FISHER SCIENTIFIC INDIA PVT. LTD.	INDIA	
6.26.7	YOKOGAWA INDIA LIMITED	INDIA	
6.26.8	<u>CHEMTROLS INDUSTRIES LTD</u>	<u>INDIA</u>	Rev:9 : Holiday List upto 29.07.2022
6.27	AMBIENT AIR ANALYSER SYSTEMS		
A	INDIAN BIDDERS		
6.27.1	ENVIRONNEMENT S.A.	INDIA	
6.27.2	THERMO FISHER SCIENTIFIC INDIA PVT. LTD.	INDIA	
6.27.3	<u>CHEMTROLS INDUSTRIES LTD</u>	<u>INDIA</u>	Rev:9 : Holiday List upto 29.07.2022
6.28	PROCESS STREAM ANALYSER (IR/UV)		
A	INDIAN BIDDERS		
6.28.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.28.2	APPLIED INSTRUMENTS TECHNOLOGIES INC.	INDIA	
6.28.3	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.28.4	HORIBA LTD	INDIA	
6.28.5	SERVOMEX GROUP LTD.	INDIA	
6.28.6	YOKOGAWA INDIA LIMITED	INDIA	
6.28.7	FORBES MARSHAL PVT LTD	INDIA	
6.29	PROCESS STREAM ANALYSER (H.C.-TCD/FID)		
A	INDIAN BIDDERS		
6.29.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.29.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.29.3	FORBES MARSHAL PVT LTD	INDIA	
6.29.4	SIEMENS AG	INDIA	Rev.7: Country Change
6.29.5	SICK AG	INDIA	
6.30	ANALYSER SYSTEMS		
A	INDIAN BIDDERS		
6.30.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.30.2	APPLIED INSTRUMENTS TECHNOLOGIES INC.	INDIA	
6.30.3	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.30.4	SERVOMEX GROUP LTD.	INDIA	
6.30.5	SIEMENS AG (ADAGE AUTOMATION PVT. LTD.)	INDIA	
6.30.6	YOKOGAWA INDIA LIMITED	INDIA	
6.30.7	<u>CHEMTROLS INDUSTRIES LTD</u>	<u>INDIA</u>	Rev:9 : Holiday List upto 29.07.2022
6.30.8	FORBES MARSHAL PVT LTD	INDIA	
6.31	STACK GAS ANALYSER SYSTEMS (INSITU)		
A	INDIAN BIDDERS		



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.31.1	ENVORNMENT SA	INDIA	
6.31.2	FORBES MARSHALL CODEL PVT. LTD.	INDIA	
6.31.3	SERVOMEX GROUP LTD.	INDIA	
6.31.4	TELEDYNE	INDIA	
6.31.5	THERMO FISHER SCIENTIFIC	INDIA	
6.31.6	CHEMTROLS INDUSTRIES LTD	INDIA	Rev:9 : Holiday List upto 29.07.2022
6.31.7	SICK AG	INDIA	
6.32	STACK GAS ANALYSERS (SPM)		
A	INDIAN BIDDERS		
6.32.1	ENVIRONNEMENT S.A.	INDIA	
6.32.2	FORBES MARSHALL CODEL PVT. LTD.	INDIA	
6.32.3	SERVOMEX GROUP LTD.	INDIA	
6.32.4	THERMO FISHER SCIENTIFIC	INDIA	
6.32.5	DURAG	INDIA	
6.32.6	SICK AG	INDIA	
6.32.7	AMETEK (LAND)	INDIA	
6.33	ORIFICE PLATES & FLANGES		
A	INDIAN BIDDERS		
6.33.1	BALIGA LIGHTING EQUIPMENTS (P) LIMITED	INDIA	
6.33.2	COMFIT & VALVES PVT. LTD.	INDIA	
6.33.3	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.33.4	EUREKA INDUSTRIAL EQUIPMENTS (P) LTD.	INDIA	
6.33.5	GAUGES BOURDON (I) PVT. LTD. (GEN.INST)	INDIA	
6.33.6	GURUNANAK ENGINEERING WORKS	INDIA	
6.33.7	HYDROPNEUMATICS PVT. LTD.	INDIA	
6.33.8	INSTRUMENTATION LIMITED	INDIA	
6.33.9	MICRO PRECISION PRODUCTS PVT LTD	INDIA	
6.33.10	MINCO (INDIA) PVT LTD (GEN. INST.)	INDIA	
6.33.11	STAR-MECH CONTROLS (INDIA) PVT LTD	INDIA	
6.33.12	MINCO (INDIA) FLOW ELEMENT PVT LTD	INDIA	Rev:10 : Bidder addition
6.34	FLOW ELEMENTS : (VENTURI, FLOW NOZZLES)		
A	INDIAN BIDDERS		
6.34.1	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.34.2	GAUGES BOURDON (I) PVT. LTD. (GEN.INST)	INDIA	
6.34.3	HYDROPNEUMATICS PVT. LTD.	INDIA	
6.34.4	INSTRUMENTATION LIMITED	INDIA	
6.34.5	MICRO PRECISION PRODUCTS PVT LTD	INDIA	
6.34.6	MINCO (INDIA) FLOW ELEMENT PVT. LTD.	INDIA	Rev.6: Name Change
6.34.7	STAR-MECH CONTROLS (INDIA) PVT LTD	INDIA	
6.34.8	MINCO (INDIA) PVT LTD	INDIA	
6.34.9	EUREKA INDUSTRIAL EQUIPMENTS PVT LTD.	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.35	TEMP. ELEMENTS, THERMOWELLS		
A	INDIAN BIDDERS		
6.35.1	ALTOP INDUSTRIES LTD.	INDIA	
6.35.2	DETRIV INSTRUMENTATION & ELECTRONICS LTD	INDIA	
6.35.3	GAUGES BOURDON (I) PVT LTD (GEN. INST.)	INDIA	
6.35.4	GOA INSTRUMENTS INDUSTRIES PVT. LTD.	INDIA	
6.35.5	PYRO-ELECTRIC INSTRUMENTS GOA PVT LTD	INDIA	
6.35.6	TECHNO INSTRUMENTS	INDIA	
6.35.7	TEMPSENS INSTRUMENTS INDIA PVT LTD	INDIA	
6.35.8	TEMP-TECH	INDIA	
6.35.9	TE THERMO ELECTRIC COMPANY INDIA PVT. LTD	INDIA	Rev.4: Name Change
6.35.10	THERMAL INSTRUMENTS INDIA PVT. LTD	INDIA	
6.35.11	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.35.12	WIKA INSTRUMENTS INDIA PVT LTD	INDIA	Rev.4: Name Change
6.36	SKIN THERMOCOUPLES		
A	INDIAN BIDDERS		
6.36.1	BAUMER GROUP	INDIA	
6.36.2	DETRIV INSTRUMENTATION & ELECTRONICS LTD	INDIA	
6.36.3	PYRO-ELECTRIC INSTRUMENTS GOA PVT LTD	INDIA	
6.36.4	TECHNO INSTRUMENTS	INDIA	
6.36.5	TE THERMO ELECTRIC COMPANY INDIA PVT. LTD	INDIA	Rev.4: Name Change
6.36.6	WIKA INSTRUMENTS INDIA PRIVATE LIMITED.	INDIA	
6.36.7	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.36.8	THERMAL INSTRUMENT INDIA PVT LTD	INDIA	Rev.13: Vendor Addition
6.37	SPECIAL TEMPERATURE ELEMENTS		
A	INDIAN BIDDERS		
6.37.1	PYRO-ELECTRIC INSTRUMENTS GOA PVT LTD	INDIA	
6.37.2	TE THERMO ELECTRIC COMPANY INDIA PVT. LTD	INDIA	Rev.4: Name Change
6.37.3	BAUMER INDIA PVT LTD.	INDIA	
6.37.4	WIKA INSTRUMENTS INDIA PRIVATE LIMITED.	INDIA	Rev.6: New Addition
6.37.5	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.38	SURGE RELIEF VALVE		
A	INDIAN BIDDERS		
6.38.1	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.39	SPECIAL CONTROL VALVES (PLUG)		
A	INDIAN BIDDERS		
6.39.1	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	
6.40	SPECIAL CONTROL VALVE (FLUSH BOTTOM)		
A	INDIAN BIDDERS		
6.40.1	MICRO PNEUMATICS PVT. LTD.	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.40.2	TECNIK VALVES PVT. LTD.	INDIA	
6.41	WATER QUALITY ANALYSERS (SILICA)		
A	INDIAN BIDDERS		
6.41.1	FORBES MARSHALL PVT. LTD.- PUNE	INDIA	
6.41.2	HACH COMPANY	INDIA	
6.41.3	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.41.4	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.41.5	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.42	WATER QUALITY ANALYSER-DISSOLVED OXYGEN		
A	INDIAN BIDDERS		
6.42.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.42.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.42.3	FORBES MARSHALL PVT. LTD.- PUNE	INDIA	
6.42.4	HACH COMPANY	INDIA	
6.42.5	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.42.6	METTLER - TOLEDO AG	INDIA	
6.42.7	YOKOGAWA INDIA LIMITED	INDIA	
6.42.8	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.42.9	INVENSYS	INDIA	
6.43	WATER QUALITY ANALYSER SYSTEMS		
A	INDIAN BIDDERS		
6.43.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.43.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.43.3	FORBES MARSHALL PVT. LTD.- PUNE	INDIA	
6.43.4	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.43.5	METTLER - TOLEDO AG	INDIA	
6.43.6	YOKOGAWA INDIA LIMITED	INDIA	
6.43.7	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.44	PROCESS STREAM ANALYSER-MOISTURE/ DEW PT		
A	INDIAN BIDDERS		
6.44.1	SERVOMEX GROUP LTD.	INDIA	
6.44.2	GE SENSING EMEA	INDIA	
6.45	PROCESS STREAM ANALYSER(PARAMAGNETIC-O2)		
A	INDIAN BIDDERS		
6.45.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.45.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.45.3	HORIBA LTD	INDIA	
6.45.4	SERVOMEX GROUP LTD.	INDIA	
6.45.5	YOKOGAWA INDIA LIMITED	INDIA	
6.45.6	GE SENSING EMEA	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.45.7	SIEMENS AG	INDIA	Rev.7: Country Change
6.46	WATER QUALITY ANALYSERS (PH)		
A	INDIAN BIDDERS		
6.46.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.46.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.46.3	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.46.4	FORBES MARSHALL PVT. LTD.- PUNE	INDIA	
6.46.5	HACH DHR INDIA PRIVATE LIMITED	INDIA	Rev.3:Name Upadation
6.46.6	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.46.7	SCHNEIDER ELECTRIC SYSTEMS INDIA PRIVATE LIMITED	INDIA	Rev.3:Name Upadation
6.46.8	METTLER -TOLEDO INDIA PVT. LTD.	INDIA	Rev.3:Name Upadation
6.46.9	YOKOGAWA INDIA LIMITED	INDIA	
6.47	PROCESS STREAM ANALYSER(HYDROGEN-TCD)		
A	INDIAN BIDDERS		
6.47.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.47.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.47.3	HORIBA LTD	INDIA	
6.47.4	GE SENSING	INDIA	
6.48	PRODUCT QUALITY ANALYSER SYSTEMS		
A	INDIAN BIDDERS		
6.48.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.48.2	THERMO FISHER SCIENTIFIC	INDIA	
6.48.3	YOKOGAWA INDIA LIMITED	INDIA	
6.48.4	<u>CHEMTROLS INDUSTRIES LTD</u>	<u>INDIA</u>	Rev:9 : Holiday List upto 29.07.2022
6.48.5	BARTEC GMBH	INDIA	
6.48.6	YOKOGAWA ELECTRIC CORPORATION	INDIA	
6.49	WATER QUALITY ANALYSERS (TURBIDITY)		
A	INDIAN BIDDERS		
6.49.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.49.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.49.3	FORBES MARSHALL PVT. LTD.- PUNE	INDIA	
6.49.4	HACH COMPANY	INDIA	
6.49.5	METTLER - TOLEDO AG	INDIA	
6.49.6	YOKOGAWA INDIA LIMITED	INDIA	
6.49.7	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.50	WATER QUALITY ANALYSERS (CONDUCTIVITY)		
A	INDIAN BIDDERS		
6.50.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.50.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.50.3	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change



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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-D (INSTRUMENTATION)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
6.50.4	FORBES MARSHALL PVT. LTD.- PUNE	INDIA	
6.50.5	HACH DHR INDIA PRIVATE LIMITED	INDIA	Rev.3:Name Upadation
6.50.6	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.50.7	SCHNEIDER ELECTRIC SYSTEMS INDIA PRIVATE LIMITED	INDIA	Rev.3:Name Upadation
6.50.8	METTLER -TOLEDO INDIA PVT. LTD.	INDIA	Rev.3:Name Upadation
6.50.9	YOKOGAWA INDIA LIMITED	INDIA	
6.51	PROCESS STREAM ANALYSER(IR/UV)		
A	INDIAN BIDDERS		
6.51.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.51.2	APPLIED INSTRUMENTS TECHNOLOGIES INC.	INDIA	
6.51.3	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.51.4	HORIBA LTD	INDIA	
6.51.5	SERVOMEX GROUP LTD.	INDIA	
6.51.6	YOKOGAWA INDIA LIMITED	INDIA	
6.52	SO2 ANALYSER		
A	INDIAN BIDDERS		
6.52.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.52.2	YOKOGAWA	INDIA	
6.53	WATER QUALITY ANALYSER-OIL IN H2O TOC/TC		
A	INDIAN BIDDERS		
6.53.1	ENVIRONMENT SA INDIA PVT LTD	INDIA	
6.53.2	FORBES MARSHALL PVT. LTD.(Old Name: FORBES MARSHALL STEAM SYSTEMS PVT. LTD.)	INDIA	
6.53.3	HACH COMPANY	INDIA	
6.53.4	LAR PROCESS ANALYSERS AG	INDIA	
6.54	WATER QUALITY ANALYSER-OIL IN H2O DISLVD		
A	INDIAN BIDDERS		
6.54.1	FORBES MARSHALL PVT. LTD.- PUNE	INDIA	
6.55	WATER QUALITY ANALYSERS(CHLORINE)		
A	INDIAN BIDDERS		
6.55.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.55.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.55.3	HACH COMPANY	INDIA	
6.55.4	YOKOGAWA INDIA LIMITED	INDIA	
6.55.5	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.56	FLOW ELEMENTS-WEDGE TYPE		
A	INDIAN BIDDERS		
6.56.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.56.2	MICRO PRECISION PRODUCTS PVT LTD	INDIA	



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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-D (INSTRUMENTATION)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
6.57	GAS DETECTION SYSTEMS		
A	INDIAN BIDDERS		
6.57.1	DETECTOR ELECTRONICS CORP.(KIDDE CO.)	INDIA	
6.57.2	DRAGER SAFETY AG & CO.	INDIA	
6.57.3	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.57.4	HONEYWELL ANALYTICS	INDIA	
6.57.5	INDUSTRIAL SCIENTIFIC OLDHAM	INDIA	
6.57.6	MINE SAFETY APPLIANCES COMPANY	INDIA	
6.57.7	NET SAFETY MONITORING INC	INDIA	
6.57.8	RESPO PRODUCTS	INDIA	
6.57.9	ESP SAFETY PVT. LTD.	INDIA	
6.57.10	CHEMTROLS INDUSTRIES LTD	INDIA	Rev:9 : Holiday List upto 29.07.2022
6.57.11	DETECTION INSTRUMENTS INDIA	INDIA	
6.57.12	UNIPHOS ENVIROTRONIC PVT LTD	INDIA	Rev :10 : Bidder addition
6.58	FIRE & GAS DETECTION SYSTEMS		
A	INDIAN BIDDERS		
6.58.1	DETECTOR ELECTRONICS CORP.(KIDDE CO.)	INDIA	
6.58.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.58.3	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.58.4	MINE SAFETY APPLIANCES COMPANY	INDIA	
6.58.5	NET SAFETY MONITORING INC	INDIA	
6.58.6	YOKOGAWA INDIA LIMITED	INDIA	
6.59	PRODUCT QUALITY ANALYSERS (NIR)		
A	INDIAN BIDDERS		
6.59.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.59.2	APPLIED INSTRUMENTS TECHNOLOGIES INC.	INDIA	
6.59.3	BARTEC GMBH	INDIA	
6.59.4	YOKOGAWA INDIA LIMITED	INDIA	
6.60	PRODUCT QUALITY ANALYSERS (VISCOSITY)		
A	INDIAN BIDDERS		
6.60.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.60.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.61	PRODUCT QUALITY ANALYSERS (DENSITY)		
A	INDIAN BIDDERS		
6.61.1	MOBREY LTD	INDIA	Rev.7: Country Change
6.61.2	THERMO FISHER SCIENTIFIC	INDIA	
6.62	PRODUCT QUALITY ANALYSERS (FLASH POINT)		
A	INDIAN BIDDERS		
6.62.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.62.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.62.3	BARTEC GMBH	INDIA	
6.63	PRODUCT QUALITY ANALYSERS (DISTILLATION)		
A	INDIAN BIDDERS		
6.63.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.63.2	BARETC INDIA PVT. LTD, INDIA	INDIA	Rev.4 Bidder Addition
6.64	PRODUCT QUALITY ANALYSER (SULPHUR)		
A	INDIAN BIDDERS		
6.64.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.64.2	THERMO FISHER SCIENTIFIC INDIA PVT. LTD.	INDIA	
6.65	STACK GAS ANALYSERS (O2-ZIRCONIA) + CO + CO2		
A	INDIAN BIDDERS		
6.65.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.65.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.65.3	SERVOMEX GROUP LTD.	INDIA	
6.65.4	YOKOGAWA INDIA LIMITED	INDIA	
6.65.5	GE SENSING EMEA	INDIA	
6.66	ANALYSER-DENSITY/SP. GRAVITY (NUCLEONIC)		
A	INDIAN BIDDERS		
6.66.1	BERTHOLD TECHNOLOGIES GMBH & CO.KG	INDIA	
6.66.2	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.66.3	OHMART/VEGA CORPORATION	INDIA	
6.66.4	THERMO FISHER SCIENTIFIC	INDIA	
6.67	ANALYSER-DENSITY/SP GRAVITY (VIB CYLINDR)		
A	INDIAN BIDDERS		
6.67.1	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.67.2	THERMO FISHER SCIENTIFIC	INDIA	
6.68	ANALYSER-DENSITY/SP GRAVITY (CORIOLIS)		
A	INDIAN BIDDERS		
6.68.1	KROHNE MARSHALL PVT. LTD	INDIA	
6.68.2	YOKOGAWA INDIA LIMITED	INDIA	
6.68.3	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.68.4	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.69	AUTOMATIC LIQUID SAMPLER		
A	INDIAN BIDDERS		
6.69.1	DOPAK (SPIRARE ENERGY)	INDIA	
6.70	WOBBE METERS		
6.71	PROGRAMMABLE LOGIC CONTROLLERS (DMR)		



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Sr.No	VENDOR NAME	COUNTRY	REMARK
A	INDIAN BIDDERS		
6.71.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.71.2	GE INTELLIGENT PLATFORMS PVT LTD	INDIA	
6.71.3	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.71.4	INVENSYS SOFTWARE SYSTEMS (S) PTE LTD (SCHNEIDER)	INDIA	
6.71.5	LARSEN & TOUBRO LIMITED	INDIA	Rev.2: Name Change
6.71.6	ROCKWELL AUTOMATION INDIA PVT LTD	INDIA	
6.71.7	SIEMENS LTD - NASHIK	INDIA	
6.71.8	YOKOGAWA INDIA LTD	INDIA	
6.71.9	GE-FANUC AUTOMATION	INDIA	
6.72	PROGRAMMABLE LOGIC CONTROLLERS (TMR/QMR, SIL3 CERTIFIED)		
A	INDIAN BIDDERS		
6.72.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.72.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.72.3	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.72.4	INVENSYS SOFTWARE SYSTEMS (S) PTE LTD (SCHNEIDER)	INDIA	
6.72.5	ROCKWELL AUTOMATION INDIA PVT LTD	INDIA	
6.72.6	YOKOGAWA INDIA LIMITED	INDIA	
6.72.7	ICS TRIPLEX (EMEA) PLC	INDIA	
6.73	PRESSURE GAUGES		
A	INDIAN BIDDERS		
6.73.1	AN INSTRUMENTS PVT LTD	INDIA	
6.73.2	BAUMER TECHNOLOGIES INDIA PVT.LTD	INDIA	
6.73.3	GAUGES BOURDON (I) PVT. LTD. (GEN.INST)	INDIA	
6.73.4	GOA INSTRUMENTS INDUSTRIES PVT. LTD.	INDIA	
6.73.5	H GURU INSTRUMENTS(SOUTH INDIA)PVT. LTD	INDIA	
6.73.6	H.GURU INDUSTRIES	INDIA	
6.73.7	MANOMETER (INDIA) PVT. LTD.	INDIA	
6.73.8	Precision Mass Products Pvt. Ltd. (Old name: ASHCROFT INDIA PVT LTD)	INDIA	
6.73.9	WALCHANDNAGAR INDUSTRIES LTD (INSTRUMENTATION DIVISION)	INDIA	Rev-11 : Name Updation
6.73.10	WIKA INSTRUMENTS INDIA PVT LTD	INDIA	
6.73.11	BAUMER INDIA PVT LTD.	INDIA	
6.74	DRAFT GAUGES		
A	INDIAN BIDDERS		
6.74.1	AN INSTRUMENTS PVT LTD	INDIA	
6.74.2	GAUGES BOURDON (I) PVT. LTD. (GEN.INST)	INDIA	
6.74.3	SWITZER PROCESS INSTRUMENTS PVT. LTD.	INDIA	
6.74.4	WIKA INSTRUMENTS INDIA PVT LTD	INDIA	Rev.4: Name Change
6.75	DIFFERENTIAL PRESSURE GAUGES		
A	INDIAN BIDDERS		
6.75.1	AN INSTRUMENTS PVT LTD	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.75.2	BAUMER TECHNOLOGIES INDIA PVT.LTD	INDIA	
6.75.3	GAUGES BOURDON (I) PVT. LTD. (GEN.INST)	INDIA	
6.75.4	SWITZER PROCESS INSTRUMENTS PVT. LTD.	INDIA	
6.75.5	WIKA INSTRUMENTS INDIA PVT LTD	INDIA	
6.75.6	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	Rev.7: Name Change
6.75.7	SAMSON CONTROLS PVT LTD	INDIA	Rev.10:Name Update
6.76	TEMP.GAUGES(BI METALLIC,FILLED SYSTEM)		
A	INDIAN BIDDERS		
6.76.1	AN INSTRUMENTS PVT LTD	INDIA	
6.76.2	Precision Mass Products Pvt. Ltd. (Old name: ASHCROFT INDIA PVT LTD)	INDIA	
6.76.3	BAUMER TECHNOLOGIES INDIA PVT.LTD	INDIA	
6.76.4	GAUGES BOURDON (I) PVT. LTD. (GEN.INST)	INDIA	
6.76.5	GOA INSTRUMENTS INDUSTRIES PVT. LTD.	INDIA	
6.76.6	H GURU INSTRUMENTS(SOUTH INDIA)PVT. LTD	INDIA	
6.76.7	H.GURU INDUSTRIES	INDIA	
6.76.8	WALCHANDNAGAR INDUSTRIES LTD (INSTRUMENTATION DIVISION)	INDIA	Rev-11 : Name Updation
6.76.9	WIKA INSTRUMENTS INDIA PVT LTD	INDIA	
6.76.10	BAUMER BOURDON HAENNI SAS	INDIA	Rev.7: Country Change
6.76.11	THERMAL INSTRUMENTS INDIA PVT LTD	INDIA	
6.77	VARIABLE AREA FLOW METERS(I,T)		
A	INDIAN BIDDERS		
6.77.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.77.2	ALFLOW GLASS EQUIPMENTS	INDIA	
6.77.3	BROOKS INSTRUMENT	INDIA	
6.77.4	EUREKA INDUSTRIAL EQUIPMENTS (P) LTD.	INDIA	
6.77.5	INSTRUMENTATION ENGINEERS PVT. LTD.	INDIA	
6.77.6	KROHNE MARSHALL PVT. LTD	INDIA	
6.77.7	PLACKA INSTRUMENTS INDIA P LTD	INDIA	
6.77.8	YOKOGAWA INDIA LIMITED	INDIA	
6.77.9	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.77.10	CHEMTROLS INDUSTRIES LTD	INDIA	Rev:9 : Holiday List upto 29.07.2022
6.78	MAGNETIC FLOW METERS		
A	INDIAN BIDDERS		
6.78.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.78.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.78.3	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.78.4	INSTRUMENTATION ENGINEERS PVT. LTD.	INDIA	
6.78.5	KROHNE MARSHALL PVT. LTD	INDIA	
6.78.6	YOKOGAWA INDIA LIMITED	INDIA	
6.79	TERMINAL AUTOMATION SYSTEM		
A	INDIAN BIDDERS		



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.79.1	ADVANCED SYSTEK PVT LTD.	INDIA	
6.79.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.79.3	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.79.4	SCHNEIDER ELECTRIC INDIA PRIVATE LIMITED-MAHAPE	INDIA	Rev.2: Name Change
6.79.5	CHEMTROLS INDUSTRIES LTD	INDIA	Rev.9 : Holiday List upto 29.07.2022
6.79.6	CHEMTROLS SAMIL (INDIA) PVT LTD	INDIA	Rev.9: Name Updation
6.80	POSITIVE DISPLACEMENT METERS		
A	INDIAN BIDDERS		
6.80.1	IDEX FLUID & METERING P.LTD	INDIA	
6.80.2	TELTECH INSTRUMENTATION PVT.LTD.	INDIA	
6.80.3	TOSHNIWAL HYVAC PVT. LTD.	INDIA	
6.81	ULTRASONIC FLOW METER		
A	INDIAN BIDDERS		
6.81.1	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.81.2	ELSTER-INSTROMET INDIA PVT LTD (HONEYWELL)	INDIA	
6.81.3	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.81.4	KROHNE MARSHALL PVT. LTD	INDIA	
6.81.6	RMG REGEL-MESSTECHNIK GMBH	INDIA	Rev.9 : Country Change
6.81.7	SICK AG	INDIA	
6.81.8	THERMO FISHER SCIENTIFIC	INDIA	
6.81.9	GE INDIA INDUSTRIAL PVT LTD	INDIA	
6.82	VORTEX FLOW METER		
A	INDIAN BIDDERS		
6.82.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.82.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.82.3	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.82.4	KROHNE MARSHALL PVT. LTD	INDIA	
6.82.5	RMG REGEL-MESSTECHNIK GMBH	INDIA	Rev.9 : Country Change
6.82.6	YOKOGAWA INDIA LTD	INDIA	
6.83	TURBINE FLOW METERS		
A	INDIAN BIDDERS		
6.83.1	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.83.2	ELSTER-INSTROMET INDIA PVT LTD (HONEYWELL)	INDIA	
6.83.3	RMG REGEL-MESSTECHNIK GMBH	INDIA	Rev.9 : Country Change
6.83.4	ROCKWIN FLOWMETER INDIA (P) LTD	INDIA	
6.83.5	THERMO FISHER SCIENTIFIC	INDIA	
6.84	MASS FLOW METERS		
A	INDIAN BIDDERS		
6.84.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.84.2	BROOKS INSTRUMENT	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.84.3	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.84.4	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.84.5	KROHNE MARSHALL PVT. LTD	INDIA	
6.84.6	LAMTECH SOLUTION LLP	INDIA	Rev.2: Name Change
6.84.7	ROCKWIN FLOWMETER INDIA PRIVATE LIMITED	INDIA	Rev.2: Name Change
6.84.8	YOKOGAWA INDIA LIMITED	INDIA	
6.85	GAUGE GLASSES & COCKS		
A	INDIAN BIDDERS		
6.85.1	BLISS ANAND PVT LTD	INDIA	
6.85.2	CHEMTROLS SAMIL (INDIA) PVT LTD	INDIA	
6.85.3	GAUGES BOURDON (I) PVT LTD (GEN. INST.)	INDIA	
6.85.4	LEVCON INSTRUMENTS PVT LTD	INDIA	
6.85.5	NISAN SCIENTIFIC PROCESS EQUIP. P LTD	INDIA	
6.85.6	PRATOLINA INSTRUMENTS PVT LTD	INDIA	
6.85.7	PUNE TECHTROL PVT LTD	INDIA	
6.85.8	SIGMA INSTRUMENTS COMPANY	INDIA	Rev.6: Name Change
6.85.9	ASIAN INDUSTRIAL VALVES & INSTRUMENTS	INDIA	
6.85.10	TECHNOMATIC INDIA PVT LTD	INDIA	
6.86	DRUM LEVEL INSTRUMENTS (ELECTRONIC)		
A	INDIAN BIDDERS		
6.86.1	YARWAY CORPORATION	INDIA	
6.86.2	CESARE BONNETTI INDIA PVT LTD	INDIA	
6.87	DRUM LEVEL INSTRUMENTS (BI-COLOUR GAUGE)		
A	INDIAN BIDDERS		
6.87.1	CESARE BONNETTI INDIA PVT LTD	INDIA	
6.88	TANK LEVEL INSTRUMENTS (FLOAT OPERATED)		
A	INDIAN BIDDERS		
6.88.1	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.88.2	NIVO CONTROLS PVT LTD	INDIA	
6.88.3	SBEM PVT LTD	INDIA	
6.88.4	SIGMA INSTRUMENTS COMPANY	INDIA	Rev.6: Name Change
6.88.5	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.89	MAGNETIC LEVEL INSTRUMENTS		
A	INDIAN BIDDERS		
6.89.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.89.2	BLISS ANAND PVT LTD	INDIA	
6.89.3	GAUGES BOURDON (I) PVT LTD (GEN. INST.)	INDIA	
6.89.4	KROHNE MARSHALL PVT. LTD	INDIA	
6.89.5	LEVCON INSTRUMENTS PVT LTD	INDIA	
6.89.6	LAMTECH SOLUTION LLP	INDIA	Rev.2: Name Change



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.89.7	PRATOLINA INSTRUMENTS PVT LTD	INDIA	
6.89.8	PUNE TECHTROL PVT LTD	INDIA	
6.89.9	SHRIDHAN AUTOMATION PVT LTD	INDIA	
6.89.10	SIGMA INSTRUMENTS COMPANY	INDIA	Rev.6: Name Change
6.89.11	CHEMTROLS INDUSTRIES LTD	INDIA	Rev.9 : Holiday List upto 29.07.2022
6.89.12	CHEMTROLS SAMIL (INDIA) PVT LTD	INDIA	Rev.9: Name Updation
6.89.13	TECHNOMATIC INDIA PVT LTD	INDIA	
6.89.14	CESARE BONNETTI INDIA PVT LTD	INDIA	
6.90	SPL. LEVEL INSTRUMENTS-GUIDED WAVE RADAR		
A	INDIAN BIDDERS		
6.90.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.90.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.90.3	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.90.4	KROHNE MARSHALL PVT. LTD	INDIA	
6.90.5	LAMTECH SOLUTION LLP	INDIA	Rev.2: Name Change
6.90.6	VEGA INDIA LEVEL & PRESSURE MEASUREMENT PVT LTD	INDIA	Rev.15: Name Updation
6.91	TANK FARM MANAGEMENT SYSTEM		
A	INDIAN BIDDERS		
6.91.1	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.91.2	ENRAF B.V. (GR. COMPANY OF HONEYWELL)	INDIA	Rev.7: Country Change
6.91.3	ROSEMOUNT TANK RADAR AB (EMERSON PROCESS MANAGEMENT)	INDIA	Rev.7: Country Change
6.91.4	SBEM PVT LTD	INDIA	
6.92	TANK LEVEL INSTRUMENT (SERVO TYPE)		
A	INDIAN BIDDERS		
6.92.1	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.92.2	ENRAF B.V. (GR. COMPANY OF HONEYWELL)	INDIA	Rev.7: Country Change
6.92.3	SBEM PVT LTD	INDIA	
6.93	SPECIAL LEVEL INSTRUMENTS (RF TYPE)		
A	INDIAN BIDDERS		
6.93.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.93.2	AMETEK DREXELBROOK	INDIA	
6.93.3	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.93.4	LAMTECH SOLUTION LLP	INDIA	Rev.2: Name Change
6.93.5	MOBREY LTD	INDIA	Rev.7: Country Change
6.94	SPECIAL LEVEL INSTRUMENTS (CAP.& COND.)		
A	INDIAN BIDDERS		
6.94.1	AMETEK DREXELBROOK	INDIA	
6.94.2	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.94.3	LAMTECH SOLUTION LLP	INDIA	Rev.2: Name Change
6.94.4	SBEM PVT LTD	INDIA	

			
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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.94.5	YARWAY CORPORATION	INDIA	
6.94.6	SAPCON INSTRUMENTS PVT. LIMITED	INDIA	
6.95	NUCLEONIC LEVEL INSTRUMENTS		
A	INDIAN BIDDERS		
6.95.1	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.95.2	THERMO FISHER SCIENTIFIC	INDIA	
6.95.3	TRACERCO LTD	INDIA	
6.96	CLOSED CIRCUIT TV		
A	INDIAN BIDDERS		
6.96.1	COMMTTEL NETWORKS PVT LTD	INDIA	
6.96.2	ELECTRONIC CORPORATION OF INDIA LTD.	INDIA	
6.96.3	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.96.4	NELCO LTD	INDIA	
6.96.5	PELCO	INDIA	
6.96.6	PHILIPS	INDIA	
6.96.7	SECURITY VISION	INDIA	
6.96.8	TRANSIT ELECTRONICS PVT. LTD.	INDIA	
6.96.9	DATAESS INFORMATION TECHNOLOGIES LTD	INDIA	
6.97	FIELD INSTRUMENTS/TRANSMITTERS (P,DP,F,L,T,TD)		
A	INDIAN BIDDERS		
6.97.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.97.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.97.3	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.97.4	FUJI ELECTRIC SYSTEMS CO. LTD/FUJI ELECTRIC INDIA PVT LTD	INDIA	
6.97.5	YOKOGAWA INDIA LIMITED	INDIA	
6.97.6	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.97.7	SCHNEIDER ELECTRIC SYSTEMS INDIA PRIVATE LIMITED	INDIA	
6.98	TANK LEVEL INSTRUMENT (RADAR,ULTRASONIC)		
A	INDIAN BIDDERS		
6.98.1	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.98.2	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.98.3	KROHNE MARSHALL PVT. LTD	INDIA	
6.98.4	LAMTECH SOLUTION LLP	INDIA	Rev.2: Name Change
6.98.5	VEGA INDIA LEVEL AND PRESSURE MEASUREMENT PVT LTD	INDIA	
6.98.6	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.99	SPEED TANSMITTERS		
A	INDIAN BIDDERS		
6.99.1	ASEA BROWN BOVERY LTD (ABB LTD)	INDIA	
6.99.2	HANS TURCK GMBH & CO. KG	INDIA	
6.99.3	PEPPERL + FUCHS GMBH	INDIA	



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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-D (INSTRUMENTATION)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
6.100	CONTROL PANEL & ACCESSORIES		
A	INDIAN BIDDERS		
6.100.1	ACCUSONIC CONTROLS PVT LTD	INDIA	
6.100.2	CONTROL SYSTEMS ENGINEERS	INDIA	
6.100.3	ELECTRONIC CORPORATION OF INDIA LTD.	INDIA	
6.100.4	ELECTRONIC INSTRMNTATION & CONTROL P LTD	INDIA	
6.100.5	INDUSTRIAL CONTROLS & APPLIANCES PVT LTD	INDIA	
6.100.6	INSTRUMENTATION LIMITED	INDIA	
6.100.7	IRIS AUTOMATION PVT LTD	INDIA	
6.100.8	POSITRONICS PVT LTD	INDIA	
6.100.9	PRIMA AUTOMATION INDIA PVT LTD	INDIA	
6.100.10	PYROTECH ELECTRONICS PVT LTD	INDIA	
6.100.11	RADHA KRISHNA CONTROLS	INDIA	
6.101	PREFABRICATED INSTRUMENT HOOKUPS		
A	INDIAN BIDDERS		
6.101.1	ASTEC VALVES & FITTINGS PVT. LTD.	INDIA	
6.101.2	COMFIT & VALVES PVT. LTD.	INDIA	
6.101.3	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.101.4	FLUID CONTROLS PVT LTD	INDIA	
6.101.5	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.101.6	HAVI ENGINEERING INDIA PRIVATE LIMITED	INDIA	Rev.16: NEW ADDITION
6.102	SP. CONTROL VALVE (KNIFE GATE)		
A	INDIAN BIDDERS		
6.102.1	ORBINOX INDIA PVT. LTD	INDIA	
6.102.2	PENTAIR VALVES & CONTROLS INDIA PVT LTD	INDIA	
6.102.3	DRESSER VALVES	INDIA	
6.102.4	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.102.5	VELAN ENGINEERING	INDIA	
6.103	FIRE PROTECTION SYSTEM (VALVES & ACC.)		
A	INDIAN BIDDERS		
6.103.1	MBM AUTOMATION AND ROBOTICS	INDIA	
6.103.2	SUMMIT TECHNODYNE PVT. LTD.	INDIA	
6.104	ANALYSER-DENSITY/SP.GRAVITY(V.CYLNDR,CORLIS)		
A	INDIAN BIDDERS		
6.104.1	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.104.2	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.104.3	KROHNE MARSHALL PVT. LTD	INDIA	
6.104.4	THERMO FISHER SCIENTIFIC	INDIA	
6.104.5	YOKOGAWA INDIA LIMITED	INDIA	
6.105	ANALYSER (AIR DEMAND/TOTAL SULPHUR)		



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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-D (INSTRUMENTATION)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
6.106	AVERAGING PITOT TUBES		
A	INDIAN BIDDERS		
6.106.1	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.106.2	MICRO PRECISION PRODUCTS PVT LTD	INDIA	
6.106.3	MINCO (INDIA) PVT LTD (GEN. INST.)	INDIA	
6.106.4	STAR-MECH CONTROLS (INDIA) PVT LTD	INDIA	
6.106.5	THERMO FISHER SCIENTIFIC	INDIA	
6.106.6	VERIS INC.	INDIA	Name : 11 : Country Change
6.107	ANALYSERS (HYDROGEN SULPHIDE)		
A	INDIAN BIDDERS		
6.107.1	AMETEK	INDIA	
6.107.2	SICK AG	INDIA	
6.107.3	THERMO FISHER SCIENTIFIC	INDIA	
6.108	VISCOSITY METER		
A	INDIAN BIDDERS		
6.108.1	MOBREY LTD	INDIA	Rev.7: Country Change
6.108.2	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.108.3	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.108.4	PAC LP	INDIA	
6.108.5	AMETEK INSTRUMENTS INDIA PVT. LTD.	INDIA	
6.109	RUPTURE DISCS		
A	INDIAN BIDDERS		
6.109.1	BS & B SAFETY SYSTEMS (INDIA) LTD	INDIA	
6.109.2	FIKE CORPORATION-USA	INDIA	
6.110	METER PROVERS		
A	INDIAN BIDDERS		
6.110.1	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.110.2	EMC MEASUREMENT SOLUTION	INDIA	
6.111	GAS PRESSURE REDUCING SKIDS		
A	INDIAN BIDDERS		
6.111.1	AUTOMETERS ENERGITEC LIMITED	INDIA	
6.111.2	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.111.3	ELSTER-INSTRUMET INDIA PVT LTD (HONEYWELL)	INDIA	
6.111.4	MULTITEX FILTRATION ENGINEERS LTD.	INDIA	
6.111.5	NIRMAL INDUSTRIAL CONTROLS PRIVATE LIMITED	INDIA	Rev.12: Name Updation
6.111.6	RMG REGEL+MESSTECHNIK GMBH	INDIA	Rev-9 : Country Change
6.111.7	ROCKWIN FLOWMETER INDIA (P) LTD	INDIA	
6.111.8	CHEMTROLS INDUSTRIES LTD	INDIA	Rev:9 : Holiday List upto 29.07.2022



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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-D (INSTRUMENTATION)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
6.112	GAS METERING SYSTEM (ULTRASONIC)		
A	INDIAN BIDDERS		
6.112.1	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.112.2	ELSTER-INSTROMET INDIA PVT LTD (HONEYWELL)	INDIA	
6.112.3	NIRMAL INDUSTRIAL CONTROLS PRIVATE LIMITED	INDIA	Rev.12: Name Updation
6.112.4	RMG REGEL+MESSTECHNIK GMBH	INDIA	Rev-9 : Country Change
6.112.5	CHEMTROLS INDUSTRIES LTD	INDIA	Rev:9 : Holiday List upto 29.07.2022
6.113	GAS METERING SYSTEM (TURBINE)		
A	INDIAN BIDDERS		
6.113.1	AUTOMETERS ENERGITEC LIMITED	INDIA	
6.113.2	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.113.3	ELSTER-INSTROMET INDIA PVT LTD (HONEYWELL)	INDIA	
6.113.4	NIRMAL INDUSTRIAL CONTROLS PRIVATE LIMITED	INDIA	Rev.12: Name Updation
6.113.5	RMG REGEL+MESSTECHNIK GMBH	INDIA	Rev-9 : Country Change
6.113.6	ROCKWIN FLOWMETER INDIA (P) LTD	INDIA	
6.113.7	CHEMTROLS INDUSTRIES LTD	INDIA	Rev:9 : Holiday List upto 29.07.2022
6.114	GAS METERING SYSTEM -DUAL CHAMBR ORIFICE		
A	INDIAN BIDDERS		
6.114.1	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.114.2	FMC MEASUREMENT	INDIA	
6.115	LIQUID METERING SYSTEM (ULTRASONIC)		
A	INDIAN BIDDERS		
6.115.1	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.115.2	KROHNE MARSHALL PVT. LTD	INDIA	
6.116	LIQUID METERING SYSTEM (TURBINE)		
A	INDIAN BIDDERS		
6.116.1	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	
6.116.2	ROCKWIN FLOWMETER INDIA (P) LTD	INDIA	
6.116.3	THERMO FISHER SCIENTIFIC	INDIA	
6.117	LIQUID METERING SYSTEM (P D METERS)		
A	INDIAN BIDDERS		
	NO INDIAN BIDDERS		
6.118	LIQUID METERING SYSTEM (MASS FLOW METER)		
A	INDIAN BIDDERS		
6.118.1	ADVANCE SYSTEK	INDIA	
6.118.2	CHEMTROLS INDUSTRIES LTD	INDIA	Rev:9 : Holiday List upto 29.07.2022
6.118.3	DANIEL MEASUREMENT SOLUTIONS PVT LTD (EMERSON)	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.118.4	FMC MEASUREMENT	INDIA	
6.118.5	HONEYWELL	INDIA	
6.118.6	ROCKWIN FLOWMETER INDIA PRIVATE LIMITED	INDIA	Rev.2: Name Change
6.119	DISPLACER LEVEL INSTRUMENTS		
A	INDIAN BIDDERS		
6.119.1	GE OIL & GAS INDIA PVT LTD	INDIA	Rev.2: Name Update
6.119.2	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	REV:12 : NAME UPDATION
6.119.3	FOXBORO ECKARDT GMBH (SCHNEIDER)	INDIA	
6.119.4	SCHNEIDER ELECTRIC SYSTEMS INDIA PRIVATE LIMITED	INDIA	Rev.9: Name Update
6.119.5	CHEMTROLS INDUSTRIES LTD	INDIA	Rev:9 : Holiday List upto 29.07.2022
6.119.6	DRESSER PRODUITS INDUSTRIELS	INDIA	
6.120	DISTRIBUTED CONTROL SYSTEMS		
A	INDIAN BIDDERS		
6.120.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.120.2	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
6.120.3	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.120.4	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.120.5	SCHNEIDER ELECTRIC SYSTEMS INDIA PVT. LTD.	INDIA	
6.120.6	SIEMENS LTD (FOR NON FOUNDATION FIELD BUS SYSTEM)	INDIA	
6.120.7	YOKOGAWA INDIA LIMITED	INDIA	
6.121	TELEPHONE AND PAGING SYSTEMS		
A	INDIAN BIDDERS		
6.121.1	ARMTEL LIMITED	INDIA	
6.121.2	DEE EM SYSTEMS	INDIA	
6.121.3	FIBCOM INDIA LIMITED	INDIA	
6.121.4	INDUSTRONIC IND.-ELEC.GMBH&CO.KG	INDIA	
6.121.5	Laraon Engineers & Consultants Pvt. Ltd	INDIA	Rev-15 : Delisted from Holiday list
6.121.6	PHILIPS	INDIA	
6.121.7	SIEMENS (UNIFY)	INDIA	
6.121.8	AVAYA GLOBAL CONNECT	INDIA	
6.121.9	AGC NETWORKS LTD	INDIA	
6.121.10	BPL SYSTEMS AND PROJECTS LTD	INDIA	
6.122	FOUNDATION FIELD BUS (FF JB'S)		
A	INDIAN BIDDERS		
6.122.1	MTL INDIA	INDIA	
6.122.2	P&F	INDIA	
6.122.3	R STAHL	INDIA	
6.123	JUNCTION BOXES (Flame Proof)		
A	INDIAN BIDDERS		
6.123.1	BALIGA LIGHTING EQUIPMENTS PRIVATE LIMITED	INDIA	Rev.9: Name updation



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.123.2	FCG FLAME PROOF CONTROL GEARS P. LTD	INDIA	Rev.13: Name updation
6.123.3	FCG POWER INDUSTRIES PVT LTD	INDIA	
6.123.4	FLAMEPROOF EQUIPMENTS PVT LTD	INDIA	
6.123.5	FLEXPRO ELECTRICALS PVT. LTD	INDIA	Rev.13: Name updation
6.123.6	KAYSONS TECHNO EQUIPMENTS PVT LTD	INDIA	Rev.16: Name updation
6.123.7	PEPPERL & FUCHS MANUFACTURING (INDIA) PRIVATE LIMITED / OEM Authorised bidder: M/s. Pepperl & Fuchs (India) Pvt Ltd. – INDIA	INDIA	Rev.1: Name Change
6.123.8	SUDHIR SWITCHGEARS PVT LTD	INDIA	
6.124	FLAME SCANNERS		
A	INDIAN BIDDERS		
6.124.1	DURAG	INDIA	
6.124.2	HONEYWELL	INDIA	
6.125	PLC CABINETS / LOCAL CONTROL PANEL		
A	INDIAN BIDDERS		
6.125.1	BASE AUTOMATION INDIA	INDIA	
6.125.2	INDUSTRIAL CONTROL & APPLIANCES	INDIA	
6.125.3	MEGATECH CONTROLS	INDIA	
6.125.4	POSITRONICS PVT. LTD	INDIA	
6.125.5	PRIMA AUTOMATION INDIA PVT LTD	INDIA	
6.125.6	PYROTECH ELECTRONICS PVT LTD	INDIA	
6.125.7	RITTAL	INDIA	
6.126	OPACITY ANALYSERS		
A	INDIAN BIDDERS		
6.126.1	<u>CHEMTROLS INDUSTRIES LTD</u>	<u>INDIA</u>	Rev:9 : Holiday List upto 29.07.2022
6.127	THERMAL MASS FLOWMETERS		
A	INDIAN BIDDERS		
6.127.1	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.127.2	FLUID COMPONENTS INTL	INDIA	
6.127.3	GE SENSING	INDIA	
6.128	MCT BLOCKS		
A	INDIAN BIDDERS		
6.128.1	MCT BRATTBERG	INDIA	
6.128.2	ROXTEC	INDIA	
6.128.3	HILTI INDIA	INDIA	
6.128.4	DELSEAL INDIA PVT. LTD.	INDIA	
6.129	BARRIERS (IS) / BARRIERS (FF)		
A	INDIAN BIDDERS		
6.129.1	MTL	INDIA	
6.129.2	P & F	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.130	BEACONS / HOOTERS/ MCP		
A	INDIAN BIDDERS		
6.130.1	BALIGA LIGHTING EQUIPMENT PVT LTD	INDIA	
6.130.2	CAEG FCG	INDIA	
6.130.3	EX PROTECTA	INDIA	
6.130.4	FLAMEPROOF EQUIPMENT PVT. LTD.	INDIA	
6.130.5	FLEXPRO ELECTRICALS PVT. LTD	INDIA	Rev.13: Name updation
6.131	AIR FILTER REGULATORS		
A	INDIAN BIDDERS		
6.131.1	DONALDSON (INDIA)	INDIA	
6.131.2	MARSH BELLOFRAM	INDIA	
6.131.3	PALL INDIA PRIVATE LIMITED	INDIA	Rev.14: Name Updation
6.131.4	PLACKA INSTRUMENTS INDIA P LTD	INDIA	
6.131.5	SCHRADER DUNCAN LIMITED	INDIA	
6.131.6	SHAVO NORGREN (I) PVT LTD	INDIA	
6.131.7	DIVYA CONTROL ELEMENTS PVT LTD	INDIA	
6.131.8	JANATICS INDIA PVT LTD	INDIA	
6.131.9	SHAH PNEUMATICS	INDIA	
6.131.10	VELJAN HYDRAIR PVT LTD	INDIA	
6.131.11	JRU	INDIA	
6.131.12	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.131.13	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	Rev.12: Name Change
6.132	ACCESS CONTROL SYSTEM		
A	INDIAN BIDDERS		
6.132.1	ALE INDIA PVT. LTD.	INDIA	
6.132.2	ASCENT NETWORKS PRIVATE LIMITED	INDIA	
6.132.3	BOSCH LIMITED	INDIA	
6.132.4	COMMTEL NETWORKS PVT. LIMITED	INDIA	
6.133	ANALYSER SHELTER		
A	INDIAN BIDDERS		
6.133.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.133.2	AXIS SOLUTIONS PVT. LTD.	INDIA	
6.133.3	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.133.4	PYROTECH ELECTRONICS PVT LTD	INDIA	
6.133.5	BARTEC INDIA PRIVATE LIMITED (BETTEC BENKE GMBH)	INDIA	
6.133.6	ADAGE AUTOMATION PVT. LTD. (Siemens)	INDIA	
6.133.7	YOKOGAWA INDIA LIMITED	INDIA	
6.133.8	<u>CHEMTROLS INDUSTRIES LTD</u>	<u>INDIA</u>	Rev:9 : Holiday List upto 29.07.2022
6.134	LOOP POWERED INDICATORS		
A	INDIAN BIDDERS		
6.134.1	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	



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6.134.2	ENDRESS HAUSER INDIA PVT LTD	INDIA	Rev.10: Name Change
6.134.3	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.134.4	SCHNEIDER ELECTRIC INDIA PVT. LTD	INDIA	Rev.9: Name Change
6.134.5	MTL INSTRUMENTS PVT LTD	INDIA	
6.134.6	YOKOGAWA INDIA LIMITED	INDIA	
6.134.7	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.135	FIRE PROOFING FOR INSTRUMENT ITEMS (FOR CABLE TRAYS/DUCTS)		
A	INDIAN BIDDERS		
6.135.1	LOYDS INSULATION	INDIA	
6.135.2	THERMAL CERAMICS	INDIA	
6.135.3	UNIFRAX INDIA LTD	INDIA	
6.136	SUNSHADE FOR FIELD INSTRUMENTS		
A	INDIAN BIDDERS		
6.136.1	FIBROCHEM INDUSTRIES	INDIA	
6.136.2	LOTUS FIBRE	INDIA	
6.137	METER RUN ASSEMBLY (INTEGRAL ORIFICE)		
A	INDIAN BIDDERS		
6.137.1	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.137.2	YOKOGAWA	INDIA	
6.138	PROXIMITY TYPE LIMIT SWITCH		
A	INDIAN BIDDERS		
6.138.1	HONEYWELL INC	INDIA	
6.138.2	PEPPERL & FUCHS	INDIA	
6.139	POSITION INDICATION SWITCHBOXES		
A	INDIAN BIDDERS		
6.139.1	FLOWSERVE	INDIA	
6.139.2	WESTLOCK	INDIA	
6.140	TERMINAL BLOCKS		
A	INDIAN BIDDERS		
6.140.1	ELEMEX	INDIA	
6.140.2	PHONIX	INDIA	
6.140.3	CONNECTWELL	INDIA	
6.140.4	WEILDMULLER	INDIA	
6.140.5	WAGO PRIVATE LIMITED	INDIA	Rev.3: Addition
6.141	CABLE TRAY		
A	INDIAN BIDDERS		
6.141.1	METALLEMS	INDIA	
6.141.2	GLOBE ELECTRIC	INDIA	
6.141.3	INDIANA	INDIA	



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COMMON PROJECTS MASTER SUPPLIER LIST-SECTION-D (INSTRUMENTATION)			
Sr.No	VENDOR NAME	COUNTRY	REMARK
6.141.4	RATAN ENGINEERING	INDIA	
6.141.5	IDS COMPOSITES	INDIA	
6.141.6	NATIONAL GALVANISER	INDIA	
6.141.7	VATCO	INDIA	
6.141.8	STEELITE	INDIA	
6.141.9	INDIANA GRATINGS	INDIA	
6.141.10	DECO ENTERPRISE	INDIA	
6.141.11	PREMIER POWER PRODUCT (CAL) PVT LTD	INDIA	
6.141.12	INDIA ELECTRICALS SYNDICATE	INDIA	
6.141.13	JAMUNA METALS	INDIA	
6.141.14	UNITECH FABRICATORS & ENGINEERS PVT LTD	INDIA	
6.142	INSTRUMENT DB&B BALL VALVES		
A	INDIAN BIDDERS		
6.142.1	ASTEC VALVES & FITTINGS PVT. LTD.	INDIA	
6.142.2	CIRCOR INSTR. TECHNOLOGIES INC	INDIA	
6.142.3	COMFIT & VALVES PVT. LTD.	INDIA	
6.142.4	PARKER HANNIFIN CORPORATION	INDIA	
6.142.5	HAVI ENGINEERING INDIA PRIVATE LIMITED	INDIA	
6.143	MOTOR OPERATED VALVES		
A	INDIAN BIDDERS		
6.143.1	L&T VALVES LIMITED	INDIA	Rev.2: Name Change
6.143.2	CESARE BONNETTI INDIA PVT LTD	INDIA	
6.143.3	XOMOX SANMAR LTD	INDIA	
6.143.4	AMPO VALVES INDIA PVT LTD	INDIA	Rev-13 : Name Updation
6.143.5	ADVANCE VALVES	INDIA	
6.143.6	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED	INDIA	Rev-13 : Name Updation
6.143.7	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev-13 : Name Updation
6.144	CORROSION COUPONS		
6.145	OPTICAL PYROMETERS		
6.146	SPECIAL CONTROL VALVES (AXIAL)		
6.147	SPECIAL CONTROL VALVES (PISTON)		
6.148	AUTOMATIC GAS SAMPLER		
A	INDIAN BIDDERS		
	NO INDIAN BIDDERS		
6.149	PRODUCT QUALITY ANALYSERS (RVP)		
A	INDIAN BIDDERS		
6.149.1	BARTEC GMBH	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.149.2	ATAC	INDIA	
6.150	TARGET FLOWMETERS		
6.151	RECEIVER INSTRUMENTS		
A	INDIAN BIDDERS		
6.151.1	YOKOGAWA INDIA LIMITED	INDIA	
6.152	INFRARED TEMP MEASUREMENT SYSTEM		
6.153	ANTI SURGE CONTROL		
6.154	SPEED GOVERNOR FOR TURBINE		
6.155	PRESSURE SWITCHES		
A	INDIAN BIDDERS		
6.155.1	ASCO JOUCOMATIC LTD	INDIA	
6.155.2	DAG PROCESS INSTRUMENTS PVT LTD	INDIA	
6.155.3	INDFOS INDUSTRIES LIMITED	INDIA	
6.155.4	KAUSTUBHA UDYOG	INDIA	
6.155.5	SWITZER PROCESS INSTRUMENTS PVT. LTD.	INDIA	
6.155.6	UNITED ELECTRIC CONTROLS CO	INDIA	
6.155.7	GAUGES BOURDON (I) PVT LTD (GEN. INST.)	INDIA	
6.156	SPECIAL CONTROL VALVES (ECC ROTARY PLUG)		
A	INDIAN BIDDERS		
6.156.1	GE OIL & GAS INDIA PVT LTD	INDIA	Rev.4: Name Change
6.156.2	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	Rev.4: Name Change
6.156.3	FLOWSERVE INDIA CONTROLS PVT. LTD.	INDIA	
6.156.4	NELES INDIA PVT LTD	INDIA	Rev-15 : Holiday List till 02.05.2022
6.156.5	SAMSON CONTROLS PVT. LIMITED	INDIA	
6.156.6	INSTRUMENTATION LIMITED	INDIA	
6.157	BLENDING AUTOMATION SYSTEMS		
A	INDIAN BIDDERS		
6.157.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.157.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.157.3	HONEYWELL AUTOMATION INDIA LIMITED	INDIA	
6.157.4	INVENSYS	INDIA	
6.157.5	YOKOGAWA INDIA LIMITED	INDIA	
6.158	GAUGE GLASSES & COCKS (HIGH PRESSURE SERVICES 900# & ABOVE)		
A	INDIAN BIDDERS		
6.158.1	LEVCON INSTRUMENTS PVT LTD	INDIA	
6.158.2	NISAN SCIENTIFIC PROCESS EQUIP. P LTD	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.158.3	PUNE TECHTROL PVT LTD	INDIA	
6.159	MAGNETIC LEVEL GAUGES (HIGH PRESSURE SERVICES 900# & ABOVE)		
A	INDIAN BIDDERS		
6.159.1	BLISS ANAND PVT LTD	INDIA	
6.159.2	CHEMTROLS SAMIL	INDIA	
6.160	PORTABLE NUCLEONIC SURVEY METER (BETA-GAMMA-NEUTRON)		
6.161	SP CONTROL VALVES (ECCENTRIC DISC HI PERFORMANCE TYPE)		
A	INDIAN BIDDERS		
6.161.1	GE INDIA INDUSTRIAL PVT LTD (DRESSER)	INDIA	
6.161.2	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	REV:12 : NAME UPDATION
6.161.3	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev-13 : Name Updation
6.161.4	METSO	INDIA	
6.161.5	TYCO VALVES & CONTROLS	INDIA	
6.162	SPECIAL CONTROL VALVES (SEGMENTAL)		
A	INDIAN BIDDERS		
6.162.1	GE INDIA INDUSTRIAL PVT LTD (DRESSER)	INDIA	
6.162.2	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	REV:12 : NAME UPDATION
6.162.3	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev-13 : Name Updation
6.162.4	METSO	INDIA	
6.162.5	SAMSON AG	INDIA	
6.163	SPECIAL CONTROL VALVES (BALL CONTROL)		
A	INDIAN BIDDERS		
6.163.1	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	
6.163.2	METSO	INDIA	
6.163.3	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	REV:12 : NAME UPDATION
6.163.4	TYCO VALVES & CONTROLS	INDIA	
6.164	SPECIAL CONTROL VALVES (VARIABLE CV)		
A	INDIAN BIDDERS		
6.164.1	GE INDIA INDUSTRIAL PVT LTD (DRESSER)	INDIA	
6.164.2	KSB MIL CONTROLS LIMITED	INDIA	Rev.4: Name Update
6.164.3	INSTRUMENTATION LIMITED	INDIA	
6.165	SPECIAL CONTROL VALVES (LOW CV)		
A	INDIAN BIDDERS		
6.165.1	GE INDIA INDUSTRIAL PVT LTD (DRESSER)	INDIA	
6.165.2	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	REV:12 : NAME UPDATION
6.165.3	FLOWSERVE INDIA CONTROLS PVT LTD	INDIA	Rev-13 : Name Updation
6.165.4	INSTRUMENTATION LIMITED	INDIA	
6.165.5	KSB MIL CONTROLS LIMITED	INDIA	Rev.4: Name Update



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.166	SAFETY VALVE BOILER SERVICE		
A	INDIAN BIDDERS		
6.166.1	BHARAT HEAVY ELECTRICALS LIMITED	INDIA	Rev.2: Name Change
6.166.2	INSTRUMENTATION LIMITED	INDIA	
6.166.3	ANDERSON GREENWOOD CROSBY SANMAR LIMITED	INDIA	Rev.6: Name Change
6.166.4	NIRMAL INDUSTRIAL CONTROLS PRIVATE LIMITED	INDIA	Rev.12: Name Updation
6.167	INTERFACE DEVICES		
A	INDIAN BIDDERS		
6.167.1	MTL INSTRUMENTS	INDIA	
6.167.2	PEPPERL + FUCHS	INDIA	
6.168	ACTUATORS-MOV		
A	INDIAN BIDDERS		
6.168.1	AUMA INDIA PRIVATE LTD	INDIA	
6.168.2	CAIR EUROMATIC AUTOMATION PVT LTD	INDIA	
6.168.3	FLOWSERVE LIMITORQUE	INDIA	
6.168.4	LIMITORQUE INDIA LIMITED	INDIA	
6.168.5	MARSH AUTOMATION PVT. LTD.	INDIA	
6.168.6	ROTORK CONTROLS (INDIA) LTD	INDIA	
6.169	PROCESS STREAM ANALYSERS(ELECTROCHEM-02)		
A	INDIAN BIDDERS		
6.169.1	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.169.2	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.169.3	GE SENSING EMEA	INDIA	
6.169.4	METTLER - TOLEDO AG	INDIA	
6.170	ALARM PANEL / ALARM ANNUNCIATOR		
A	INDIAN BIDDERS		
6.170.1	ELECTRONIC CORPORATION OF INDIA LTD	INDIA	
6.170.2	INSTALARM INSTRUMENTS PVT LTD	INDIA	
6.170.3	MINILEC (INDIA) PVT LTD	INDIA	
6.170.4	MTL INSTRUMENTS PVT LTD	INDIA	
6.170.5	PROCON INSTRUMENTATION PVT LTD	INDIA	
6.170.6	ICA	INDIA	
6.170.7	IIC	INDIA	
6.171	PUSH BUTTON AND INDICATING LAMPS		
A	INDIAN BIDDERS		
6.171.1	C & S ELECTRIC LTD	INDIA	
6.171.2	ESSEN DEINKI	INDIA	
6.171.3	HOTLINE SWITCHGEAR & CONTROLS	INDIA	
6.171.4	LARSEN & TOUBRO LIMITED	INDIA	Rev.2: Name Change



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.171.5	PRECIFINE PRODUCTS PVT LTD	INDIA	
6.171.6	SCHNEIDER ELECTRIC INDIA PVT LTD	INDIA	
6.171.7	SHRI TULSI SWITCHGEARS PVT LTD	INDIA	
6.171.8	SIEMENS LIMITED	INDIA	
6.171.9	STANDARD ELECTRICALS LTD	INDIA	
6.171.10	IDEC-IZUMI	INDIA	
6.171.11	R. STAHL (P) LTD	INDIA	
6.171.12	TEKNIK	INDIA	
6.172	TUBE FITTINGS (SEAL OIL, LUBE OIL, HYDROCARBON & OTHER CRITICAL APPLICATIONS)		
A	INDIAN BIDDERS		
6.172.1	ASTEC	INDIA	
6.172.2	EXCEL-HYDRO	INDIA	
6.172.3	ARYA CRAFTS & ENGINEERING PVT LTD	INDIA	
6.172.4	CIRCOR INSTR. TECHNOLOGIES INC- FORM.H608	INDIA	
6.172.5	COMFIT & VALVES PVT. LTD.	INDIA	
6.172.6	EXCELSIOR ENGG. WORKS	INDIA	
6.172.7	FLUID CONTROLS PVT LTD	INDIA	
6.172.8	MULTIMETAL INDUSTRIES	INDIA	
6.172.9	PANAM ENGINEERS	INDIA	
6.172.10	PRECISION ENGINEERING INDUSTRIES	INDIA	
6.172.11	PRIME ENGINEERS	INDIA	
6.172.12	RELIANCE ENGINEERING & ELECTRICALS CORPN	INDIA	Rev-16 : Holiday List till 03.11.2023
6.172.13	SEALEXCEL (INDIA) PVT. LTD.	INDIA	
6.172.14	SWASTIK ENGINEERING WORKS	INDIA	
6.172.15	TK FUJIKIN CORPORATION	INDIA	
6.173	DIGITAL INDICATOR / DIGITAL MULTIPOINT INDICATOR		
A	INDIAN BIDDERS		
6.173.1	MTL (6000 SERIES)	INDIA	
6.173.2	PEPPERL & FUCHS	INDIA	
6.174	CONTROL VALVE - ANGLE TYPE		
A	INDIAN BIDDERS		
6.174.1	METSO AUTOMATION PTE LTD	INDIA	
6.174.2	EMERSON PROCESS MANAGEMENT CHENNAI PRIVATE LIMITED	INDIA	Rev12 : New Addition
6.175	I/P CONVERTER		
A	INDIAN BIDDERS		
6.175.1	EMERSON PROCESS MANAGEMENT (INDIA) PRIVATE LIMITED.	INDIA	
6.175.2	M.T.L INSTRUMENTS PVT. LTD.	INDIA	
6.176	FLOW METER ULTRASONIC TYPE - For Flare Gas Application		
A	INDIAN BIDDERS		
6.176.1	GE SENSING	INDIA	



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Sr.No	VENDOR NAME	COUNTRY	REMARK
6.176.2	SICK AG	INDIA	
6.177	CLAMP-ON ULTRASONIC FLOW TRANSMITTER		
A	INDIAN BIDDERS		
6.177.1	KROHNE MARSHALL PVT. LTD.	INDIA	
6.178	INSTRUMENT VALVES & MANIFOLDS FOR ANALYSERS / SAMPLING SYSTEMS		
A	INDIAN BIDDERS		
6.178.1	PARKER HANNIFIN CORPORATION	INDIA	
6.178.2	HOKE	INDIA	
6.179	PRESSURE REGULATOR FOR ANALYSERS / SAMPLING SYSTEMS		
A	INDIAN BIDDERS		
6.179.1	GO	INDIA	
6.179.2	TESCOM	INDIA	
6.179.3	PRESSURE TECH	INDIA	
6.180	GAS CYLINDER PRESSURE REGULATOR DUAL STAGE WITH PRESSURE GAUGE & SAFETY VALVE FOR ANALYSERS / SAMPLING SYSTEMS		
A	INDIAN BIDDERS		
6.180.1	GO	INDIA	
6.180.2	GCE DRUVA	INDIA	
6.180.3	INOX	INDIA	
6.180.4	BALDOTA	INDIA	
6.180.5	CP ENGG	INDIA	
6.181	PELTIER / COMPRESSOR COOLER FOR GAS SAMPLE FOR ANALYSERS / SAMPLING SYSTEMS		
A	INDIAN BIDDERS		
6.181.1	BUHLER	INDIA	
6.181.2	M&C	INDIA	
6.181.3	JCT	INDIA	
6.182	DIAPHRAGM PUMP SINGLE / DOUBLE STAGE / HEAD PUMP FOR GAS SAMPLE FOR ANALYSERS / SAMPLING SYSTEMS		
A	INDIAN BIDDERS		
6.182.1	KNF	INDIA	
6.182.2	BUHLER	INDIA	
6.182.3	M&C	INDIA	
6.183	PURGE CONTROLLER FOR PANEL FOR ANALYSERS / SAMPLING SYSTEMS		
A	INDIAN BIDDERS		
6.183.1	BARTEC	INDIA	
6.183.2	PEPPERL-FUCHS	INDIA	
6.184	VORTEX COOLER FOR ANALYSERS FOR ANALYSERS / SAMPLING SYSTEMS		



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Sr.No	VENDOR NAME	COUNTRY	REMARK
A	INDIAN BIDDERS		
6.184.1	THERMOMEGATECH	INDIA	
6.185	FILTERS FOR ANALYSERS / SAMPLING SYSTEMS		
A	INDIAN BIDDERS		
6.185.1	BLASTON	INDIA	
6.185.2	CLASSIC	INDIA	
6.185.3	HEADLINE FILTERS	INDIA	
6.185.4	GENIE MEMBRANE	INDIA	
6.186	HOT EXTRACTION SAMPLE PROBE FOR ANALYSERS / SAMPLING SYSTEMS		
A	INDIAN BIDDERS		
6.186.1	JCT	INDIA	
6.186.2	BUHLER	INDIA	
6.187	BULK POWER SUPPLY WITH SMPS (24 V DC) FOR ANALYSERS / SAMPLING SYSTEMS		
A	INDIAN BIDDERS		
6.187.1	PHOENIX CONTACT	INDIA	
6.187.2	SIEMENS	INDIA	
6.187.3	COSEL	INDIA	
6.187.4	WAGO PRIVATE LIMITED	INDIA	Rev.3: Addition
6.188	ETHERNET SWITCHES		
A	INDIAN BIDDERS - NO INDIAN BIDDERS		
6.189	HMI SOFTWARE		
A	INDIAN BIDDERS - NO INDIAN BIDDERS		
6.190	ELECTROMECHANICAL RELAY		
A	INDIAN BIDDERS		
6.190.1	OEN	INDIA	
6.190.2	HONEYWELL	INDIA	
6.190.3	ABB INDIA LIMITED	INDIA	Rev.2: Name Change
6.190.4	ALSTOM T & D INDIA LTD (FORMLY A347)	INDIA	
6.190.5	DANISH PRIVATE LIMITED	INDIA	
6.190.6	EASUN REYROLLE LTD	INDIA	
6.190.7	ENPRO INDUSTRIAL AUTOMATION PVT LTD	INDIA	
6.190.8	GE INDIA INDUSTRIAL PVT LTD	INDIA	
6.190.9	SIEMENS LIMITED	INDIA	
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