

Buyers Specific Additional Terms & Conditions in addition to GTC

Item Name: Dirt Catcher (Y-Strainer)

Projects: UKAI R&M

A. SCOPE OF ENQUIRY

E-bids on GeM are invited from bidders for the supply of **Dirt Catcher (Y-Strainer)** for **UKAI R&M Project**, as per requirement mentioned below:

Sl. No.	Project	Material Code & Item Description	Total Quantity	LOT Quantity	Date for Supply Completion
1.	CHIEF ENGINEER (Gen.) GUJRAT STATE ELECTRICITY CORPORATION LIMITED UKAI R&M STORE, THERMAL POWER	Material Code W90313166080 DIRT CATCHER AS PER ADDENDUM OF ST46003 & STANDARD SPEC: ST46003 REV: 10, SIZE: NB80	02 Nos	01 No. (Lot-1)	30.06.2024
				01 No. (Lot-2)	31.08.2024
2.	STATION UKAI, DIST-TAPI, P.O. UKAI DAM, TAL-FORT-SONGADH PIN-394680, GUJRAT	W90313166021 DIRT CATCHER AS PER VAR 01 OF ST46003. REV: 10, SIZE: - NB25	02 Nos.	01 No. (Lot-1)	30.06.2024
				01 No. (Lot-2)	31.08.2024

B. EARNEST MONEY DEPOSIT (EMD): NIL

C. Buyers Specific Additional Terms & Conditions in addition to GTC

Sl. No.	Terms	Description	Your confirmation
1.	Confirmation to compliance of GTC on GeM 4.0 (Ver-1.13)	Acceptance of General terms and conditions on GeM 4.0 (Version 1.13).	
2.	Prices Basis	Prices should be quoted on F.O.R. Destination basis i.e. up to Ukai R&M Project including freight, packing & forwarding charges, GST etc. Please mention here the applicable GST rate included in the price quoted by you.	
3.	Evaluation criteria and currency	Evaluation will be done on the basis of total landed cost to BHEL, with cost involved for delivery up to BHEL Ukai project site (considering material cost, taxes & duties, Freight etc. & considering ITC). Bidders to insure applicability of ITC on Gem portal. The evaluation currency for this tender shall be INR.	
4.	Transit Insurance	Transit insurance shall be arranged by BHEL and not to be included in the prices.	
5.	Pre-Qualification Requirement	Please note that procurement shall be done only from the vendors who full-fill the PQR requirement and accepted by our engineering. Bidders are required to fill the required data along with supporting document for BHEL review and approval. Offers of only those vendors will be considered who qualify the PQR before opening of price-bids and approved by Customer.	
6.	Customer Approval	Procurement shall be done from customer approved vendor. Bidder to submit their credentials (Company Profile, Supply experience with BHEL as well as other customer, End user certificate, Copy of ISO certification, Manufacturing and testing facilities etc.) for Customer approval.	

		Part-2 (price bid) will be opened only for customer approved vendor.	
7.	Payment Terms	Payments shall be made to the Seller within 90 days of (PRC) after issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills. For Micro/ small & Medium (covered under MSME Act), payment will be made within 45 days & 60 days respectively from PRC after issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills. Bidders to provide MSME / UDYAM certificate for payment schedule finalization.	
8.	Technical Requirements	Material specification as per SPEC: ST46003 REV: 10 & AS PER ADDENDUM OF ST46003 only without any deviation.	
		1 No. of NB80 and 1 No. of NB25, complete set for each unit will be send in one Lot of each unit.	
		Painting scheme: Primer paint epoxy based :DFT-35, Intermediate Epoxy TiO2 DFT 70 & Final Finishing DFT 75, Total DFT 180	
9.	Quality Requirements	Kindly submit endorsed quality plan "QA_BE_QP_002 Rev 01" along with enquiry. Please confirm that inspection shall be done by BHEL TPIA (M/s Intertek) and end customer as per customer's approved quality plan & drawings (if envisaged). Please note that BHEL will pay directly to BHEL's nominated TPI.	
10.	Manufacturing clearance	In case of ordering, vendor has to take manufacturing clearance from BHEL before starting manufacturing of material. Kindly confirm.	
11.	Manufacturing Period	Kindly quote your minimum delivery period in no. of weeks/months From the date of Manufacturing Clearance.....	
12.	Document submission for approval from BHEL	Drawings/Data sheets/Documents/ Quality Plan etc. as called for in the specifications shall be submitted for approval to BHEL within 30 days of purchase order. Approved documents/QP are to be followed by the supplier without any price implication. Any delay in delivery on account of late submission of drawings/data sheets/QAP/documents shall be to vendors account. BHEL will arrange the approval of the drawings/data sheets/ documents within 30 days of their receipt provided those are complete in all respect. Delays in approval shall be dealt on merit basis.	
13.	Liquidated Damages	If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever.	
		The date of LR (Lorry Receipt) would be treated as the date of delivery for penalty purposes	
		In case of any deviation to the above penalty clause, BHEL reserves the right to load the offers to the extent to which it is not agreed by vendors (at offered value).	
14.	MDCC clause	Please note that, material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) end customer. For issue of MDCC, vendors are required to submit all test certificates (TC) and inspection report of third party (IR) to BHEL. After review & acceptance of the quality	

		document, BHEL will forward the same to end customer for issuance of MDCC. Material shall be dispatched within 7 days from the the date of issuance of MDCC.	
15.	Reverse Auction	Bid to RA will be conducted as per GeM GTC .	
16.	Packing	Following documents to be enclosed with despatch documents- 1. Storage and Preservation Manual for site. 2. Pre-commissioning check-list. 3. Test Certificates & Guarantee Certificates 4. Items nomenclature on vendor packing list to be exactly same as on PO. 5. VENDOR TO KEEP TWO COPIES OF O&M MANUAL INSIDE THE DISPATCH BOX OF DIRT CATCHER AND ALSO MENTION IT IN THE VENDOR'S SHIPPING LIST.	
17.	Guarantee	Kindly confirm that all equipment shall be guaranteed for a minimum period of 36 months from the date of supply or 24 months from the date of commissioning, whichever is earlier. Buyer to submit guarantee certificate mentioning above guarantee period. Please note that offers with guarantee period lesser than above mentioned guarantee period may result in rejection of the offer.	
18.	Arbitration:	In case of any dispute arising out of as in connection with this contract, the same shall be referred to arbitration under Arbitration & Conciliation Act 1996 of a sole arbitrator who shall be appointed by mutual consent of the parties. The seat & venue of arbitration shall be Haridwar. The proceedings shall be conducted in English. The Governing law of contract shall be the substantive law of India.	
19.	Risk Purchase:	In case of abnormal delays (beyond the maximum late delivery period as per Penalty clause) in supplies /defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere /alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract.	
20.	Firm prices	Price will remain firm and fixed during entire execution of tender/supply.	
21.	Bidder Contact details	Contact details of your representative: Mobile no. & Email id (minimum 2 person) 1. 2.	

Please note: During techno-commercial clarification, vendor to provide required documents/ clarification within 2-3 days of request. Such vendor Offer may be rejected in case of delay or un-complete documents submission.

SIGN & DATE



PRODUCT STANDARD

ST46003

(PROJECT ENGINEERING DEPARTMENT)

Page 1 of 5

SUPERSEDES
INVENTORY NO.

PURCHASE SPECIFICATION FOR DIRT CATCHER.

1. **SCOPE:** The specification covers the Y-type dirt catcher employed to protect the spray nozzle at downstream.

2. **TECHNICAL DATA:**

	VAR. I	VAR. II	VAR. III	VAR. IV	VAR. V	VAR. VI
SIZE	NB 25	NB 40	NB 40	NB 65	NB 40	NB 40
PRESSURE RATING	40 ata	64 ata	40 ata	40 ata	64 ata	64 ata
Medium FLOW RATE	Condensate 0.88 kg/sec.	Condensate 2.08 kg/sec.	Condensate 2.08 kg/sec.	Condensate 3.1 kg/sec.	Condensate 2.8 kg/sec.	Condensate 3.33 kg/sec.
END CONN. FLANGE ALONG WITH COUNTER FLANGE	DIN 2635	DIN 2636	DIN 2635	DIN 2635	DIN 2636	DIN 2636
APERTURE SIZE	Ø 0.6 mm	Ø 0.6 mm	Ø 0.6 mm	Ø 1.2 mm	Ø 0.6 mm	Ø 0.6 mm
WIRE DIA	Ø 0.4 mm	Ø 0.4 mm	Ø 0.4 mm	Ø 0.6 mm	Ø 0.4 mm	Ø 0.4 mm

3. **MATERIAL:**

3.1 Body with integrally cast flanges along with counter flange -Carbon steel ASTMA216Gr.WCB

3.2 Wire mesh - Stainless steel , AISI 321

3.3 Bolts and nuts – Bolts- 8.8, IS 1367 & Nuts- 8, IS 1367 as per IS 1364

3.4 Washer - IS:3063,Mat:- SPR ST , IS 4072

3.5 Gasket – Grafoil Sheet /Grafoil filled spiral wound as per DIN2690 , thickness 3mm

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SIGN & DATE

16/11/13

INVENTORY NO.

P-5390

				NAME	SIGNATURE & DATE
TSX	B.CHOUHARY	(B Chouhary) 16.11.13	WORKED BY	SUDHIR K. GAUTAM	Sudhir 01/11/13
QAX	VIBHUTISHA	(Vibhuti) 14/01/13	CHECKED BY	UTKARSH GOGIA	Utkarsh 01/11/13
AGREED DEPTT.	NAME	DATE & SIGNATURE	SUPERVISED BY	ANUJ JAIN	Anuj 01/11/13
			APPROVED :	(A.B.GUPTA) AGM.PED	(A.B. Gupta) 01/11/13
			PREPARED :	PED	Gp.No 8.20
REV.NO. 10	SUPERSEDES		ISSUED :	TSX	DATE : 18.12.81
Dt. 08/01/13					



PRODUCT STANDARD

ST46003

(PROJECT ENGINEERING DEPARTMENT)

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SUPERSEDES INVENTOR

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SIGN & DATE

16/11/13

P-5398

4. END CONNECTIONS:

Dirt Catcher end connections shall be provided by Vendor which includes Flanges, counter flanges, Gaskets, bolt, nuts and washer, all shall be as per Technical Data table given above.

5. DOCUMENTS:

A. Documents required along with the tender:

The tenderer shall submit the following documents/along with the offer. If any information/documents listed below are missing/ incomplete; the offer shall not be considered by BHEL.

1. Cross sectional drg. of the dirt catcher giving part nos. , description, part material overall dimensions, space required and direction for removal of element & direction of flow.
2. End connection details.
3. Filled in data sheet-1
4. Quality check programme.
5. List of commissioning spares / spare for operation of 3 years and 5 years.
6. Any special requirement.

The document submitted along with tender and approved by BHEL shall be the basis of the order and no changes shall be made without approval from BHEL.

Examination and approval of documents submitted along with the tender by BHEL shall not release the manufacturer and his sub-contractors of their responsibility under the contract.

B. Documents after placement of the order:

Supplier shall submit the documents (as given in Clause 5, A.) with Project name & P.O. number in the title block.

1. 10 copies of finalized contract drawing incorporating BHEL comments if any for each station – 8 weeks.
2. 10 copies of Operation / Maintenance / erection Instructions for each station – 12 weeks.
3. 2 copies of Operation / Maintenance / erection Instructions along with dispatch box & soft copies shall be made available to BHEL.
4. Instruction on conservation and deconservation – 12 weeks.

6. INSPECTION & TESTS:

REV. NO.
10

WORKED BY

UTKARSH
GOSWAMI

16/11/13

CHECKED BY

ANU J
JAIN

16/11/13

Inventory No.



PRODUCT STANDARD

(PROJECT ENGINEERING DEPARTMENT)

SUPERSEDES INVENTORY NO.

6.1 Hydraulic Test:

Hydraulic test shall be carried out on each body using water containing a suitable inhibitor to prevent rusting of the body & internals after test. No leakage shall occur during the test. After the hydraulic test the internals shall be wiped clean & dry. With reference from ANSI/API6D test pressure will be 1.5 times the nominal pressure for duration of 2 minutes. BHEL or BHEL's customer shall have the right to witness the test. However the test certificate shall be furnished to BHEL. The test certificate should specifically mentioned the test pressure & duration of test along with following information:

1. Tag No.
2. Size
3. Name of manufacturer
4. Plant order No.
5. Date of testing.

6.2 Test Certificate of mesh size from recognized test house.

7. IDENTIFICATION:

Following information should be engraved on a metal sheet properly fixed at a convenient location of the body or body cover. All inscriptions shall be in two languages i.e. Hindi & English, with Hindi on top.

Direction of flow should be engraved on the body.

- | | | |
|-------------|---------------------|--------------------------|
| (1) Tag No. | (3) Pressure rating | (5) Year of manufacturer |
| (2) Size | (4) Manufacturer | (6) P.O. No. |

8. PROTECTION FOR DESPATCH:

- 8.1 Ends shall be protected from external damage and sealed against the ingress of dirt.
- 8.2 A wooden blank should be bolted to the flanges using a minimum of four bolts.
- 8.3 To prevent any effect of salt laden atmosphere high humidity & moisture during shipment & storage. The dirt catcher and other accessories shall be properly conserved suitable to last for 2 years & covered by polythene sheet before packing in the wooden box.

9. GUARANTEE:

The supplier shall guarantee trouble free and satisfactory operation of the equipment for a period of 2 years after installation and commissioning or a period of 36 months from the day the equipment leaves the supplier's works whichever is earlier. If during commissioning / erection at site any deficiency in a part is detected, BHEL site representative shall prepare the assessment report and a copy of the same shall be forwarded to the supplier. The supplier shall replace / rectify the concerned items free of charge. The supplier if he so desires may depute his representative to site at his own cost otherwise the findings of BHEL representative shall be final and binding on the supplier of the Dirt catcher.

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DATE 16/1/13

INVENTORY NO. P-5398	REV. NO. 10			WORKED BY UTKARSH GOHIL	8/11/13
				CHECKED BY ANUS JAIN	8/11/13



ST46003

PRODUCT STANDARD
(PROJECT ENGINEERING DEPARTMENT)

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SIGN & DATE

INVENTORY NO.

10. SPARES:

The supplier shall quote item wise price of recommended spares for 3 years & 5 years operation respectively. Vendor to supply 2 sets of extra gaskets in spare as per clause no. 3.5.

11. QUALITY CHECK PLAN:

The supplier shall indicate his production plan & BHEL shall indicate the check hold points for stage checking. BHEL / BHEL's costumer shall have right to witness the checking.

12. STANDARDS:

Wherever standards have been quoted the latest issue and amendments shall apply.

13. GENERAL:

The tenderer can make suitable offers even if there are minor deviations which do not affect the efficient functioning of the equipment. However the deviation must be clearly spelt out. Suppliers shall also fill the Data sheet-1 and submit the same along with the offer.

The offer may not be considered if all the technical particulars and information called for in the specification are not submitted along with the offer.

NOTE: - All dimension are given in mm except otherwise specified.

P-5398

REV. NO.

10

WORKED BY

UTKASH GOGIT

8/1/13.

CHECKED BY

ANUJ JAIN

8/1/13



ST46003

PRODUCT STANDARD
(PROJECT ENGINEERING DEPARTMENT)

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SUPERSEDES INVENTORY

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SIGN & DATE

INVENTORY NO.

DATA SHEET--1

Variant No-

1. Nominal pressure rating
2. End connection to DIN 2635 / DIN 2636
3. Nominal size
4. Pressure drop. A) Normal Operation
B) 50% choke condition
5. Hole dia.
6. Wire dia.
7. Gross filtering area
8. Net filtering area
9. Documents as envisaged in clause No. 5 Yes / No
10. Test Certificates
- 10.1 Hydraulic Testing of body Yes / No
- 11.2 Material composition & Mech.
Properties of following parts Yes / No
 - 11.2.1 Body
 - 11.2.2 Cover / Bonnet
 - 11.2.3 Mesh
 - 11.2.4 Seat
 - 11.2.5 Seat ring
12. Mesh size from recognized test house. Yes/No
13. Dirt holding capacity

16/1/13

P-5398

REV. NO.
10

WORKED BY

UTKARSH
GOUDA

[Signature]

8/1/13

CHECKED BY

ANUS
JAIN

[Signature]

8/1/13

ADDENDUM TO ST46003**APPLICATION:** STEAM TURBINE**Date:** 06.07.2023**ITEM** : DIRT CATCHER (Y-TYPE)**MATERIAL CODE:** W90313166080**SCOPE:** This specification/addendum covers Y-Type Dirt Catcher, which is installed at upstream to protect the jacking oil pump.**TECHNICAL DATA:**

<u>SL. NO.</u>	<u>TAG NO.</u>	<u>SIZE</u>	<u>CLASS</u>	<u>OPERATING PARAMETERS</u>		<u>END TYPE</u>	<u>PIPE SIZE</u>	<u>FLOW MEDIUM</u>	<u>BODY MATERIAL</u>	<u>FILTRATION CAPACITY</u>
				<u>Pr.(Kg/cm²)</u>	<u>Flow(LPS)</u>		<u>OD.XTH.(mm)</u>			
1	MAV35AT001	40	CL150	3.059	2.66	Flanged as per DIN2635	48.3X3.68	LUBE OIL ISO VG46	ASTM A216 Gr. WCB	100 micron
	MAV33AT001									

- NOTE:** 1. Above table supersedes CLAUSE 2.0 of ST46003.
2. Rest all the clause of ST46003 are still applicable as it is.

Sandeep
06/07/2023
(Approved by)

Sandeep Kr. Sonkar
Sr. Manager/STE-TL

Nilesh

(Checked by)

Nilesh Kumar
Manager/STE-TL

Sunil
06/07/23

(Worked by)

Sunil Kr. Sharma
Engineer/STE-TL

PROJECT NAME: UKAI Unit 3&5 R&M project

Painting Scheme

Paint (Coat)	Paint Type	No. of coat	DFT*
Primer Paint	: Epoxy base Zinc rich primer paint	1 Coat	35
Intermediate Paint	: Epoxy TiO ₂ Pigmented Polyamide Cured Paint	1 Coat	70
Finish (Final) Paint	: Aliphatic Acrylic 2 Pack Polyurethane Finish paint	2 Coats	75
		Total DFT	180

* DFT – Dry Film Thickness (Final) in microns.



BHARAT HEAVY ELECTRICALS LIMITED, HARIDWAR
STE-TL ENGINEERING DEPARTMENT

PRE-QUALIFICATION REQUIREMENT
Dirt Catcher

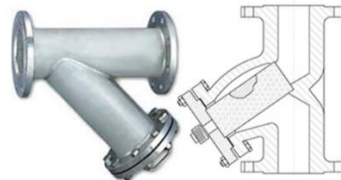
DOCUMENT NO.
PED/DirtC/PQR/20200001
Rev:00 Dt:28.05.2020

The Pre- Qualification Requirements pertaining to Engineering are as follows:

1. The vendor should have an experience in Supply of Dirt Catcher (Y Strainer) in at least 2 different power plants/ process Industries having minimum spec condition as mentioned below. Vendor to furnish experience list as per requirement in Table-1

Table-1

	Size (NB mm)	Pressure (ATA)	Flow rate (Kg/Sec)	aperture size (mm)	End User /customer name	Contact details of End user	Executed PO and date
Minimum acceptance criteria	40	64	2.08	≤0.6			
Project-1							
Project-2							



2. The vendor should furnish the following documents satisfying criteria in clause 1 above -
 - a. Executed Purchase Orders should not be older than 7 years, as on the date of enquiry.
 - b. Vendor to submit self-certified Purchase Order copies (as mentioned at 2a) along with all Technical documents i.e. GA Drawing (Containing Size, pressure, flow rate, aperture size) etc.

Note: -

1. BHEL reserves the right to verify the information submitted by vendor. Submission of false/incorrect information shall lead to rejection of offer and shall be taken seriously by BHEL.
2. BHEL reserves the right to ask for more pertinent information /documents / clarifications. Vendor shall provide this information to BHEL in a timely manner so that project schedule doesn't hamper.
3. All the documents furnished to BHEL shall be in English language only. If the documents are not in English, then they must be accompanied with duly certified English translations of the same.

----End of PQR----

Prepared By Sh. DHRUV GARG	Checked BY Sh. ANUJ JAIN	Approved By Sh. S.K. Gupta
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MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN										
BHEL	VENDOR'S NAME	ITEM	DIRT CATCHER		QP NO.	QA/BE/QP/002							
				DATED & REV	23.04.2018 01								
		DRG. NO.	AS PER PO										
		SPEC.	ST 46003										
REV	10				Page 1 of 1								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
1	2	3	4	5	6	7	8	9	D	10			11

1.0 RAW MATERIAL													
1.1	BODY	CHEMICAL ANALYSIS	MAJOR	CHEMICAL	1/HEAT	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	TC	✓	P	V		
1.2	MESH	SIZE	MAJOR	MEASUREMENT	100%	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	IR	✓	P	V		FROM RECOGNIZED TEST HOUSE
		CHEMICAL ANALYSIS	MAJOR	CHEMICAL	1/HEAT	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	TC	✓	P	V		
2.0 IN- PROCESS INSPECTION													
2.1	FLANGES (MACHINING)	DIMENSION	MAJOR	MEASUREMENT	100%	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	IR	-	P	-		
		SURFACE FINISH	MAJOR	VISUAL	100%	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	IR	-	P	-		
3.0 FINAL INSPECTION													
3.1	ASSEMBLY	HYDRAULIC TEST	MAJOR	HYDRAULIC	100%	BHEL APPD DWG/ BHEL APPD DATASHEET	NO LEAKAGE	TC	✓	P	W		
3.2		OVERALL DIMENSIONS	MAJOR	MEASUREMENT	100%	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	IR	✓	P	W		
3.3	PRESERVATION AND PACKING	-	MAJOR	VISUAL	100%	BHEL SPEC	BHEL SPEC	-	-	P	-		

MANUFACTURER/ SUBCONTRACTOR	LEGEND: RECORDS IDENTIFIED WITH '✓' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER	FOR CUSTOMER USE	APPROVED BY