

Tender Enquiry No. BHEL/CPC/KOD/BOILER_FAB_STR/25/083 for Fabrication and Supply of Finished Factory Fabricated Boiler Structure up to Koderma Project

SI No.	PO/WO Details	PO/WO Date	Total Quantity	Details of supply of Structure (Per Month Quantity in MT)												TOTAL QTY for 12 months	Details of end Customer 1) Name of Customer 2) E-Mail Id of Contact Person 3) Phone No (If Available)
				MM/YY/.....	MM/YY/.....	MM/YY/.....	MM/YY/.....	MM/YY/.....	MM/YY/.....	MM/YY/.....	MM/YY/.....	MM/YY/.....	MM/YY/.....	MM/YY/.....	MM/YY/.....		
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
TOTAL																	

Details with respect to the Fabrication and Supply of the Heaviest component by the Vendor

SI No	Description	Details
1	Weight of the Heaviest Component Supplied by Vendor (MT)	
2	Dimensions of the heaviest Component	
3	Date of Manufacturing of the heaviest Component	
4	WO/PO/Drawing Reference for the above.	
5	Details of Star Column or Plus I Column fabricated	

Annexure 1A

DECLARATION

With reference no CPC TENDER NO. BHEL/CPC/KOD/BOILER_FAB_STR/25/083 for Fabrication and Supply of Factory Fabricated Structures to Project Site.

- a) Bidder shall declare the total number of executable orders in hand and the cumulative tonnage of fabrication to be manufactured under these orders.

PO/WO Ref. Number	Order Quantity (in MT)	Contract Period (in month)	Balance Order Quantity to be executed (in MT)	Balance Contract Period (in month)

Based on above, average Monthly Output (in MT) required to execute the above-mentioned orders _____ MT/month.

- b) Facilities/Equipments restricting or deciding the monthly capacity of the works.

Name of Equipment	Remarks

- c) Monthly Capacity of works - _____MT / Month

We, hereby declare that above mentioned details are correct and verifiable. BHEL reserves the right to seek the supporting documents and carryout physical assessment of this works for establishing the claims made above. In case of inconsistency or falsification, appropriate action, as stipulated anywhere in the tender/contract may be taken in line with the provisions of the contract.

Seal and Sign of authorized person of Bidder

SUB-SECTION – E – 60

INDICATIVE VENDOR LIST

KODERMA THERMAL POWER STATION PHASE-II (2X800MW) EPC
PACKAGE
BID DOC NO.: DVC/C&M/Engineering/KTPS(2X800 MW)/EPC/IPHB

TECHNICAL SPECIFICATIONS
SECTION – VI,
PART-B

Disclaimer for Indicative Vendor List

- 1.1 Reasonable efforts have been made to collate the sub-vendors proposed by the various main contractors from time to time against different Projects/Packages and accepted by NTPC for various items. However, in case of error/omission, if any, and represented by the successful bidder this will be addressed during the execution of the contract based on the material evidence available with NTPC / Main Contractor.
- 1.2 The approved sub-vendor list drawn is not based on NTPC driven enlistment process but based on the sub-vendors proposed by various Main Contractors. As such, it is possible that some of the Suppliers/Manufacturers who may be involved in similar work/process may not be appearing in the list as such sub-vendors may not have been proposed by Main Contractors against NTPC Contracts.
- 1.3 In case the successful bidder chooses to propose additional sub-vendors with relevant experience after the award of the contract such sub-vendors will be considered in terms of Clause no: 19.1 of GCC, provided the proposals are received sufficiently in time: 90 days prior to ordering date of a Bought Out Items/Start of Manufacturing so as not to impede the progress of the contract.
- 1.4 Sub-vendors have been grouped under different categories of items. It is possible that an item characterized by certain specific features such as range and type required as per Main Contractor's design requirements may not be in the range of the listed sub-vendor's manufacturing process/capability. As such the main contractor to ascertain the vendor's capability to meet his specific requirements before considering a sub-vendor.
- 1.5 It is to be noted by the bidders that any shortfall in contract performance attributable to the sub-vendor listed will not absolve the contractor from his contractual obligations in any manner.
- 1.6 The approval was granted based on the evaluation of relevant capabilities and facilities possessed by the sub-vendor at the time of evaluation. Also, some of the sub-vendors may not be active. As such, the successful bidder is to carry out his own due diligence before considering the listed sub-vendor for subletting: the current status of the sub-vendor, the continued availability of productive resources including Human Resources.
- 1.7 The list of sub-vendors is periodically revised to include new sub-vendors. Such a revision may also see a deletion of certain sub-vendors who may have been disqualified on grounds of inadequate performance or banned in line with NTPC's banning policy. The then current list will be shared with the successful bidder immediately on award.

एनटीपीसी NTPC		Project/ परियोजना :KODARMA SUPER THERMAL POWER PROJECT Ph -II (2X800MW) Package/ पैकेज: EPC PACKAGES Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्वालिटी प्लान तथा सब -सैडर के अनुमोदन सहित मदों की सूची				DOC. NO./ दस्तावेज सं.: REVISION NO : 00 DATE/ तिथि : 20.05.2023 SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)		Provenness Clause (Refer Note-1)
		S. N. क्र.सं.	Item / मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedule ले क्यूपी उप.अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी		
1	RAPH	I				REFER SUB QR ITEM LIST Refer Note 1				STATIC COMPONENTS, ROTATING COMPONENTS, GUIDE/SUPPORT BEARINGS-NTPC APPROVED VENDORS			
2	FD, PA & ID FANS	I				REFER SUB QR ITEM LIST Refer Note 1				STATIC, ROTATING COMPONENTS AND BLADES - NTPC APPROVED VENDORS			
3	COAL MILL	I				REFER SUB QR ITEM LIST Refer Note 1				MILL COUPLING, PGB, GRINDING ROLLS, BULL RING SEGMENTS, MILL HOUSING, SEPARATOR AND OTHER MAIN COMPONENTS - FROM NTPC APPROVED SOURCES			
4	ESP	I				REFER SUB QR ITEM LIST Refer Note 1				COLLECTING ELECTRODE, EMITTING ELECTRODE - NTPC APPROVED VENDORS			
5	GRAVIMETRIC COAL FEEDERS	I				REFER SUB QR ITEM LIST Refer Note 1							
6	RECIRCULATION PUMP	I				REFER SUB QR ITEM LIST Refer Note 1							
7	AUXILIARY BOILER	I				REFER SUB QR ITEM LIST Refer Note 1		A					
8	ESP SUPPORT STRUCTURE (AUTO WELDED COLUMNS & ROOF BEAMS)	I				NTPC APPROVED SOURCES				REFER BOILER STRUCTURE LIST			
9	SEAMLESS TUBES	\$				VALLOUREC & MANNESMANN TUBES	FRANCE, GERMANY	A		CS & AS T-11, T-22, T-23, T-91, T-92			
		\$				TENNARIS GLOBAL SERVICES SA, URUGUAY	DALMINE, ITALY	A		CS & AS T-11, T-22			
		\$				TENNARIS GLOBAL SERVICES SA, URUGUAY	SILCO, ROMANIA	A		CS & AS T-11, T-22, T-23, T-91			
		\$				TENNARIS GLOBAL SERVICES SA, URUGUAY	NKK TUBES, JAPAN	A		CS & AS T-11, T-22, T-91			
		\$				MAHARASHTRA SEAMLESS LTD	RAIGAD	A		CS HOT FINISHED OD:21.0 MM TO 168.3 MM WT: 2.0 MM TO 20.0 MM COLD FINISHED OD:19.0 MM TO 88.9 MM WT: 1.0 MM TO 12.0 MM			
		\$				IBF S.P.A	ITALY	A		CS & AS T-11, T-12, T-22, T-91			
		\$				JFE STEEL CORPORATION	JAPAN	A		CS & AS T-11, T-22, T-23, T-91, T-92			
		\$				TUBOS REUNIDOS INDUSTRIAL, S.L.U	SPAIN	A		CS & AS T-11, T-22, T-23, T-91, T-92			
		\$				JINDAL SAW LIMITED	NASHIK	A		CS & AS T-11, T-12, T-22 HOT FINISHED OD: 33.4 MM TO 168.3 MM WT: 3.5 MM TO 21.95 MM COLD FINISHED OD: 6.0 MM TO 140.0 MM WT: 0.8 MM TO 15.0 MM			

S. N. क्र.सं.	 Item/ मद	QP/ Insp.	QP No./	QP	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्वीकृति प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची				Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	Provenness Clause (Refer Note-1)	
		Cat. क्यूपी/ निरी. श्रेणी.	क्यूपी. सं.	Sub. Schedu le		Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Place/ स्थान						
				उप.अनु सूचि									
		Contract No./ अनुबंध सं.:											
		\$			REMI METALS GUJARAT LTD				A			CS & AS T-11, T-12, T-22 HOT FINISHED OD: 28.6 MM TO 177.8 MM WT: 3.0 MM TO 28.0 MM COLD FINISHED OD: 9.0 MM TO 127.0 MM WT: 1.6 MM TO 20.0 MM	
		\$			WAYMAN GORDAN				A	USA		CS, T11, T12, T22, T91	
		\$			BENTELER STEEL/TUBE GMBH				A	GERMANY		CS, T-11, T23, T-22, T-91 & T-92	
		\$			HEAVY METALS & TUBES LTD				A	AHMEDABAD		CS HOT FINISHED UP TO OD: 76.2 MM AND WT: 12.0 MM	
		\$			PRODUCTOS TUBULARES,				A	SPAIN		CS & AS T-11, T-22, T-23, T-91	
		\$			ISMT				A	AHMEDNAGAR, B ARAMATI		CS, T11, 12, 22 HOT FINISHED OD: 38.0 MM TO 273.0 MM WT: 3.5 MM TO 40.0 MM COLD FINISHED OD: 18.0 MM TO 140.0 MM WT: 1.5 MM TO 15.0 MM	
		\$			NIPPON STEEL & SUMITOMO METAL CORPORATION				A	JAPAN		CS, T-11, T-22, T23, T-91, & T-92	
		\$			BENTELER STEEL/TUBE GMBH				A	GERMANY		CS, T-11, T23, T-22, T-91 & T-92	
		\$			BHEL SSTP				A	TRICHY		CS, T-11, T-12, T-22	
10	SEAMLESS TUBES(RIFFLED)	\$			SALZGITTER MANNESAMANN PRECISION				A	FRANCE		CS	
11	SEAMLESS TUBES(SS)	\$			KOBE SPECIALITY STEEL CO LTD				A	JAPAN		SS304, SS347H	
		\$			SMST				A	ITALY		SS304, 347H, SUPER 304	
		\$			TUBACEX				A	SPAIN		SS304, 347H, SUPER 304	
		\$			PASCO SPL STEEL CO.				A	SOUTH KOREA		SS304, 347H, SUPER 304	
		\$			NIPPON STEEL & SUMITOMO METAL CORPORATION				A	JAPAN		SS 304, SS347H, SUPER 304 OD UP TO 114.3 MM	
12	SEAMLESS PIPES	\$			TENNARIS GLOBAL SERVICES SA, URUGUAY				A	DALMINE, ITALY		CS & AS P-11, P-22, P-91	
		\$			TENNARIS GLOBAL SERVICES SA, URUGUAY				A	SILCO, ROMANIA		CS & AS T-11, T-22, T-91 UPTO DIA 159 MM	
		\$			TENNARIS GLOBAL SERVICES SA, URUGUAY				A	NKK TUBES, JAPAN		CS & AS T-11, T-22, T-91	
		\$			VALLOUREC & MANNESMANN TUBES				A	FRANCE, GERMANY		CS & AS P-11, P-22, P-91, P-92	
		\$			TUBOS REUNIDOS INDUSTRIAL, S.L.U				A	SPAIN		CS & AS P-11, P-22, P-91	

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				\$		ISMT	AHMEDNAGAR, BARAMATI	A		CS, T11, 12, 22 HOT FINISHED OD: 38.0 MM TO 273.0 MM WT: 3.5 MM TO 40.0 MM COLD FINISHED OD: 18.0 MM TO 140.0 MM WT: 1.5 MM TO 15.0 MM				
				\$		REMI METALS GUJARAT LTD	BHARUCH	A		CS & AS T-11, T-12, T-22 HOT FINISHED OD: 28.6 MM TO 177.8 MM WT: 3.0 MM TO 28.0 MM COLD FINISHED OD: 9.0 MM TO 127.0 MM WT: 1.6 MM TO 20.0 MM				
				\$		VALCONVY TRUB CHOMUTOV.	CZECH REPUBLIC	A		CS & P-12 & P-22				
				\$		ARCELORMITTAL TUBULAR PRODUCTS ROMAN S.A	ROMANIA	A		CS				
				\$		WAYMAN GORDAN	USA	A		CS & AS P-11, P-22, P-91				
				\$		MAHARASHTRA SEAMLESS LTD	RAIGAD	A		CS HOT FINISHED OD:219.1 MM TO 355.6 MM WT: 6.35 MM TO 35.1 MM COLD FINISHED OD:19.0 MM TO 88.9 MM WT: 1.0 MM TO 12.0 MM				
				\$		PRODUCTOS TUBULARES, NIPPON STEEL & SUMITOMO METAL CORPORATION	SPAIN	A		CS & AS P-11, P-12, P-22, P-91				
				\$		TENNARIS GLOBAL SA, URUGUAY	JAPAN	A		CS & AS P-11, P-22, P-91 & P-92				
				\$		JINDAL SAW LIMITED	NKK TUBES, ITALY	A		P-91, P-22, P-11, P12, CS				
				\$		IBF S.P.A	NASHIK	A		CS, T11, 12, 22 HOT FINISHED OD: 33.4 MM TO 168.3 MM WT: 3.5 MM TO 21.95 MM COLD FINISHED OD: 6.0 MM TO 140.0 MM WT: 0.8 MM TO 15.0 MM				
				\$		JFE STEEL CORPORATION	ITALY	A		P-92, P-91, P-22, P-11, P12, CS				
				\$		BHEL SSTP	JAPAN	A		P-92, P-91, P-22, P-11, P12, CS				
				\$		BENTELER STEEL/TUBE GMBH	TRICHY	A		CS				
				\$		RINGMILL SPA	GERMANY	A		P-11, P-22, P-91, P-92 UP TO OD 160 MM				
				\$		FORGIATURA MORANDINI SRL	ITALY	A		CS OD UP TO 914 MM & WT UP TO 102 MM & AS P-91				
				\$		INDUS STEEL	ITALY	A		CS & AS P-11, P-22, P-91 & P-92				
13	PLATES AND ROLLED SECTION (CS & AS EXCLUDING CS- IS:2062 GRADES)	\$					BELGIUM	A		CS-SA515 AS UP TO GR-91				
		\$				IL SENBURGER GROBBLECH	GERMANY	A		CS-SA 299, SA515, BS EN 10025, AS UP TO GRADE 91				
		\$				DILLINGER-GTSVENTES	GERMANY	A		CS-SA 299, SA515, BS EN 10025, A36, AS UP TO GRADE 91				
		\$				SIJ ACRONI D.O.O., SLOVENIA	SLOVENIA	A		CS- SA515, BS EN 10025, A36, AS UP TO GRADE 91				

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		Package/ पैकेज: EPC PACKAGES					Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची					Remarks/ टिप्पणी		Provenness Clause (Refer Note-1)	
		Supplier/ आपूर्तिकर्ता:													
		Contract No./ अनुबंध सं.:													
S. N. क्र.सं.	Item / मद्द	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedule le क्यूपी उप.अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी								
		\$			THYSSENKRUPP	GERMANY	A			CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22					
		\$			INDUSSTEEL LOIRE	FRANCE	A			CS-SA 299, SA515; AS UP TO GRADE 22					
		\$			ARCELLOR MITAL NIPPON STEEL (Formerly ESSAR Steel)	HAZIRA	A			CS- SA515, BS EN 10025, A36, AS GRADE 12 &22					
		\$			VOESTALPINE GROBBLECH GMBH	AUSTRIA	A			CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22					
		\$			SAIL	BHILAI/SALEM	A			CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22					
		\$			NIPPON STEEL	JAPAN	A			CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22					
		\$			POSCO	SOUTH KOREA	A			CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22					
		\$			REINER BRACH GMBH & CO.	GERMANY	A			CS- SA 299 SA515 BS EN 10025 A36, AS UP TO GRADE 22					
		\$			LLYODS STEEL INDUS LTD	INDIA	A			ALLOY STEEL PLATES AS PER A-204 & A-387 UPTO THICKNESS OF 40MM FOR STRUCTURAL STEEL APPLICATION , IN NON-PRESSURE PARTS.					
14	PLATES & ROLLED SECTION (CS-IS 2062 STRUCTURAL STEEL GRADES)	\$			REFER TO SUB-VENDORS MENTIONED IN THE TECHNICAL SPECIFICATIONS SEC-VI, PART-B		A								
15	PLATES(SS)	\$			OUTOKUMPU	SWEDEN	A			SS PLATES UP TO 20 MM THK					
		\$			INDUSSTEEL	BELGIUM	A			GRADE-304.309.310.316					
		\$			JSL STAINLESS	JAIPUR	A			LINER SS 304					
		\$			INDUSSTEEL LOIRE	FRANCE	A			GRADE-304.309.310.316					
		\$			SAIL	BHILAI/SALEM	A			GRADE-304.309.310.317					
		\$			COLUMBUS STAINLESS STEEL	SOUTH AFRICA	A			GRADE-304.309.310.318					
16	SEPARATOR & STORAGE TANK	I			ALSTOM	USA	A								
		I			BHEL	TRICHY	A								
		I			GE INDIA	DURGAPUR	A								
		I			DOOSAN	SOUTH KOREA	A								
		I			L&T-MHPS BOILERS PVT LTD	HAZIRA	A								
17	HEADERS AND SUCTION MANIFOLDS	I			ALSTOM	USA	A								
		I			BHEL	TRICHY	A								
		I			GE INDIA	DURGAPUR	A								
		I			DOOSAN	CHENNAI	A								
		I			DOOSAN VINA	VIETNAM	A								

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		Supplier/ आपूर्तिकर्ता:												
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		I			ISGEC	YAMUNANAGAR	A		UP TO GRADE 22					
		I			UNITECH MACHINES LTD	SAHARANPUR	A		ONLY FOR CS GRADE					
		I			BEND JOINTS PVT LTD	BHOPAL	A		ONLY FOR CS GRADE					
		I			SEAM INDUSTRIES PVT LTD	NAGPUR	A		ONLY FOR CS GRADE					
		I			S&G	PALWAL	A		CS & AS UP TO GRADE 22 (EXCEPT BOILER PIPING & CRITICAL PIPING)					
		I			FLASH FORGE	VISAKHAPATNA M	A		ONLY FOR CS GRADE					
23	MIXING SPHERES	I			GE INDIA	DURGAPUR	A							
		I			BHEL	TRICHY	A							
		I			ALSTOM	USA	A							
		I			DOOSAN	SOUTH KOREA	A							
24	COAL BURNER ASSY & SOFA/OFA PORT/AA PORT	I			ALSTOM	USA	A							
		I			BHEL	TRICHY	A							
		I			DOOSAN	SOUTH KOREA	A							
		I			L&T-MHPS PVT LTD	HAZIRA	A							
		I			DEE DEE ENGINEERING ENTERPRISES	TRICHY	A							
25	AIR COOLED OIL GUN ASSEMBLY	I			BHEL	TRICHY	A							
		I			SIGMA POWER	TRICHY	A							
		I			DOOSAN	SOUTH KOREA	A							
26	HFO/LFO PUMPS													
		I			ALEKTON	CHENNAI	A							
		I			UT PUMPS	FARIDABAD	A							
		I			ROTO PUMPS LTD.	GREATER NOIDA	A							
		I			ALLWEILER INDIA PVT.LTD.	GERMANY	A							
		I			BOURMANN	GERMANY	A							
		I			TUSHACO PUMPS PVT LTD/ALLWEILER INDIA PVT.LTD.	DAMAN	A							
		I			LEISTRITZ PUMPEN GmbH	GERMANY	A							
		I			KRAL	AUSTRIA	A							
27	SOOT BLOWERS(LRSB, WALL DESLAGGER, ROTARY BLOWER, TEMP PROBE)	I			BHEL	TRICHY	A							
		I			CLYDE BERGMANN	NOIDA	A		UNDER THE SUPERVISION OF M/S CLYDE BERGMANN, GERMANY					

एनटीपीसी NTPC		Project/ परियोजना :KODARMA SUPER THERMAL POWER PROJECT Ph -II (2X800MW) Package/ पैकेज: EPC PACKAGES Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्वीकृति प्लान तथा सब -सुप्लायर के अनुमोदन सहित मटेरिअल की सूची				DOC. NO./ दस्तावेज सं.: REVISION NO : 00 DATE/ तिथि : 20.05.2023 SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)		Provenness Clause (Refer Note-1)
		S. N. क्र.सं.	Item / मद्द	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedule क्यूपी उप-अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी		
		I				CLYDE BERGEMANN	GERMANY	A					
		I				DIAMOND POWER SPECIALITY LTD	SCOTLAND	A					
		I				DAIEYOUNG MACHINERY	KOREA	A					
28	ELECTRIC HOIST WITH TROLLEY, UNDERSLUNG CRANE	I						A			MAIN BOIS E.G. HOOK, MOTORS AND CRITICAL C&I ITEMS TO BE FROM NTPC APPROVED SOURCES		
		I				CONSOLIDATED HOISTS	SATARA	A			EOT CRANES UPTO 40 MT & HOISTS ABOVE 35 MT		
		I				REWA INDUSTRIES	FARIDABAD	A			EOT CRANES UPTO 25 MT		
		I				GRIP ENGINEERS	HYDERABAD	A			HOIST UPTO 40 MT		
		I				POWER BUILD PVT LTD,	V V NAGAR	A			HOIST UPTO 10 MT		
		I				UNIVERSAL HOIST	THANE	A			HOIST UPTO 20 MT		
		I				ARMSEL MHE PVT LTD	BANGALORE	A			UP TO 20 MT		
		I				ANUPAM INDUSTRIES	VITHAL, UDYOGNAGAR	A			EOT CRANES UPTO 50 MT		
		I				TRACTOR TRIFOR	FARIDABAD	A			HOIST UPTO 35 MT		
		I				CONSOLIDATED HOISTS	PUNE	A			HOISTS UPTO 20 MT		
		I				DYNAMECH CRANES	THANE , MUMBAI	A			UP TO 20 MT		
		I				HERCULES HOIST LTD.	MUMBAI	A			HOIST UPTO 30 MT		
		I				NAMSUNG MACHINERY	SOUTH KOREA	A			UP TO 25 MT		
		I				CENTURY CRANES	PALWAL	A			EOT CRANES UP TO 30 MT		
		I				MUKUND	PUNE	A					
		I				Mangla Hoist	India (Greater Noida)	A			UPTO 10 MT		
29	LP CONDENSATE PUMP	I				ITT GOULD	USA	A					
		I				FLOW SERVE	USA	A					
		I				SULZER	NAVI MUMBAI	A					
		I				CLYDE PUMPS	GHAZIABAD	A					
		I				PUMPSENSE FLUID ENGG. PVT. LTD	HOWRAH	A					
30	SCANNER AIR FAN	I				ANDREW YULE CO. LTD	NADIA	A					
		I				ACCEL	AHMEDABAD	A					
		I				PATEL AIRTEMP (I) LTD	GANDHINAGAR	A					
		I				BHEL	RANIPET	A					
		I				CB DOCTOR(IMM)	AHMEDABAD	A					
		I				AIROCHEM ENGINEERING COMPANY	KOLHAPUR	A					
		I				FLAKEWOOD INDIA	CHENNAI	A					
		I				TLT ENGG. PVT. LTD.,	MEHSANA	A					

एनटीपीसी NTPC		Project/ परियोजना :KODARMA SUPER THERMAL POWER PROJECT Ph -II (2X800MW)					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्थापित उप सब –वैद्य के अनुमोदन सहित मंटी की सूची					DOC. NO./ दस्तावेज सं.: REVISION NO : 00 DATE/ तिथि : 20.05.2023 SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)	
		Package/ पैकेज: EPC PACKAGES					Place/ स्थान	Sub-suppliers approval status / आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	Provenness Clause (Refer Note-1)		
		Supplier/ आपूर्तिकर्ता:											
		Contract No./ अनुबंध सं.:											
S. N. क्र.सं.	Item/ मंढ	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedu le क्यूपी उप.अनु सूचि	Proposed sub-supplier/ प्रस्तापित उप आपूर्तिकर्ता								
31	SEAL AIR FAN	I			CB DOCTOR & CO.	AHMEDABAD	A						
		I			ACCEL	AHMEDABAD	A						
		I			TLT INDIA PVT. LTD.,	MEHSANA	A						
		I			PATEL AIRTEMP (I) LTD.,	GANDHINAGAR	A						
		I			BHEL	RANIPET	A						
		I			ANDREW YULE CO. LTD.,	KALYANI NADIA	A						
		I			FLAKTWOOD	SWEDEN	A						
		I			FLAKEWOOD INDIA	CHENNAI	A						
		I			DRAFT AIR/CHICAGO BLOWERS	AHMEDABAD	A						
		I			REITZ INDIA	CHENNAI	A						
		I			Howden Solyvent (India) Pvt. Ltd	Kanchipuram	A						
		I			NADI AIR TECH P LTD	CHENNAI	A						
32	FURNACE MAINTENANCE PLATFORM(SKY CLIMBER)	I			NY SKYMAN INT. SA	BELGIUM	A						
		I			NV SKCLIMBER EUROPE SA	BELGIUM	A						
		I			DAEO PRECISION IND CO LTD	SOUTH KOREA	A						
33	QUICK ERECT FURNACE SCAFFOLDING	II			BSL	UK	A						
		II			INSTANT UPRIGHT	IRELAND	A						
		II			EASTMAN IMPEX	LUDHIANA	A		CARBON STEEL SCAFFOLDING				
		II			BSL	HARIDWAR	A						
		II			ARUFASE	SPAIN	A						
34	METALLIC EXPANSION JOINT FOR DUCTS	I			FLEXATHERM EXPANLLOW PVT LTD	VADODARA	A						
		I			FLEXICAN BELLOWS & HOSES PVT LTD	VADODARA	A						
		I			KAY ENGINEERING WORKS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)				
		I			RAVI STRUCTURALS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)				
		I			MARUTI FABRICATORS	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)				
		I			K B TECHNOLOGIES	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)				

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								Place/ स्थान	Sub-suppliers approval status / आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier				
				I			AURORA SHAPERS	TRICHY	A			MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
				I			FLEXICAN DURGA FAB(P) LTD	TRICHY	A			MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
				I			SRI DURGA STRUCTURALS	TRICHY	A			MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
				I			REGIONAL ENGINEERING ENTERPRISES	TRICHY	A			MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
				I			SRI RANGA INDUSTRIES	TANJORE	A			MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
				I			ANNAI VAILANKANNI ENGINEERING INDUSTRIES	TANJORE	A			MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
				I			ANNAI VAILANKANNI FABRICATORS UNIT-II	TANJORE	A			MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
				I			ANNAI VAILANKANNI FABRICATORS UNIT-II	TRICHY	A			MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
				I			MECHWELL INDUSTRIES	NASHIK	A					
				I			METALLIC BELLOWS	CHENNAI	A			UP TO 2200 NB		
35			METALLIC EXPANSION JOINT FOR PIPES	I			LONESTAR	CHENNAI	A			UP TO 2200 NB		
				I			FLEXICON BELLOWS & HOSES	VADODARA	A			UP TO 2200 NB		
				I			FLEXATHERM EXPANILLOW PVT LTD	VADODARA	A			UPTO 2000 NB		
36			LIGHT BONDED MINERAL WOOL	II			PUNISTAR INSULATION FIBRE COMPANY	BHILAI	A					
				II			SHREERAM EQUITECH	DURG	A					
				II			GOENKA ROCKWOOL (INDIA) LTD	RAIPUR	A					
				II			LLOYDS INSULATION	BHILAI	A					
				II			THERMOCARE ROCKWOOL PVT LTD	RAJNANDGAON	A					
				II			MINWOOL ROCK FIBRES LTD	RAJNANDGAON	A					
				II			LAPINUS ROCKWOOL LTD	GWALIOR	A					
				II			ROCKWOOL INDIA	MEDAK AP	A					
				II			DHANBAD ROCKWOOL INSULATION PVT LTD	DHANBAD	A					

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		S. N. क्र.सं.	Item/ मर्द	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedule क्यूपी उप-अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान					Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची
		II			MINSULATE MFG CO. LTD	JAMSHEDPUR	A							
		II			POLYBOND PROJECTS PVT LTD	DURG	A							
		II			HI-TECH ROCK FIBRE LTD	RAJNANDGAON	A							
		II			ROCKWOOL INDUSTRIES	BHILAI	A							
		II			JAMSHEDPUR MINERAL WOOL	JAMSHEDPUR	A							
		II			ROXUL ROCKWOOL	DAHEJ	A							
37	CLH & VLH	I			BHEL	TRICHY	A							
		I			MID AMERICA	USA	A							
		I			MANNESMANN	GERMANY	A							
		I			ITT	GERMANY	A							
		I			PIPE SUPPORTS	UK / THAILAND	A							
		I			UNISON	SOUTH KOREA	A							
		I			PIPE HANGER SUPPORTS PVT LTD	TANJAVORE	A							
		I			GILLARDINI	ITALY	A							
		I			LISEGA	GERMANY	A							
		I			WOOKWANG	SOUTH KOREA	A							
		I			BERGEN PIPE SUPPORTS INDIA	CHITTOR	A			CLH UP TO C8-32 RANGE(MAXIMUM LOAD 39.70T). IN CASE OF CLH BEYOND THE RANGE OF C7-27(OF SUPPLIER CATALOGUE) THE SAME SHALL BE SOURCED FROM M/S PIPE SUPPORTS, UK/THAILAND.				
		I			SANWA TAKI	JAPAN	A							
		I			MH	SPAIN	A							
		I			BROWICK	UK	A							
		I			CARPENTER PATTERSON	UK	A							
		I			CARPENTER PATTERSON INDIA PVT LTD	VELLORE	A			MAXIMUM LOAD: 23877 KG AND MAXIMUM DISPLACEMENT: 220 MM AND UNDER THE SUPERVISION OF M/S CARPENTER PATERSON, UK.				
		I			AAA SUPPORTS PVT LTD	VADODARA	A			MAXIMUM LOAD: 1.5MT AND MAXIMUM DISPLACEMENT: 250MM				
		I			CARPENTER & PATTERSON	RANIPET	A			SUBJECT TO CONDITIONS AND THE INVOLVEMENT OF THEIR PRINCIPALS				
38	CONVENTIONAL VALVES (GATE, GLOBE & CHECK)	I			VELAN INC.	CANADA	A			SINGLE STAGE DRAIN VALVES (FORGED), SIZE UPTO 50MM NB, CLASS UPTO 2680 FOR POWER CYCLE PIPING APPLICATION.				

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S. N. क्र.सं.	Item/ मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedu le क्यूपी उप.अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी			
		I			LEADER VALVES LTD.	JALANDHAR	A		CC NRV UP NB 800, 150# FOR STG PKG.			
		I			BHEL	TRICHY	A					
		I			CRESCENT VALVES	MUMBAI	A		UPTO NB 300 CL 600			
		I			VELAND VALVE CORP.	USA	A		GATE V/V 2-34" CL 900-4500 CAST STEEL GATE V/V 18-48" CH150-800			
		I			VELAN	UK	A		1) GLOBE V/V 1/4"-2" C14500 (2) BONNETLESS GLOBE V/V 1/2-2.5" CI 150-500)			
		I			L&T VALVES	COIMBATORE	A		UP TO CLASS 4500 & GRADE 91			
		I			TRILLIUM FLOW	HUBLI	A		UPTO NB 300 & CL-600, FORGED UPTO NB 50 CL 800			
		I			FOURESS ENGG. INDIA LTD.,	THANE	A		(1) 10"X600 # GATE/GLOBE/CHECK VALVES (2) 16"X300# GATE/GLOBE/CHECK VALVES (3) 24"X150# GATE/GLOBE/CHECK VALVE (4) 2"X800 # FS GATE/GLOBE/CHECK (LIST) AS PER BS5352 (B) GATE GLOBE/CHECK VALVES FOR 700# TO 1500#			
		I			NITTON VALVES INDIA PVT. LTD.,	AURANGABAD	A		(1) GATE VALVE: UPTO36" CLASS 600 WCB/WCC (2) GLUBE VALVE: UPTO 16" CLASS 300 WCB/WCC (3) CHECK VALVE : UPTO 12" CLASS 600 WCB/WCC & WC6			
		I			SAMSHIN LTD.,	SOUTH KOREA	A		(1) GATE - 450 NB 3900 SPL CL SA 217 C12A (GR 91) (2) GLOBE (CAST) - 200 NB 3900 SPL, CL FOR SA 217C12 (G 91) (3) GLOBE (FORGED GR 92) - 50 NB 4500 CL GR SA182 F 92 (4) CHECK (CAST) - 200 NB 3500 SPL CL FOR SA 217C12A (GR91) (5) CHECK (FORGED GR 92) - 50 NB 4500 CL GR SA 182 F 92 (5) ANGLE (FORGED80 NB)			
		I			TOA VALVE ENGGINERING INC.	JAPAN	A		CONVENTIONAL VALVES (1) GATE VALVES UPTO SIZE 16", CLASS 4500 UPTO C12A/F91 (2) GATE VALVES UPTO SIZE 26" CLASS 2500 UPTO C12A (3) CHECK VALVES UPTO SIZE 14" CLASS 2500 UPTO C12A (4) GLOBE VALVES UPTO SIZE 3" CLASS 4500 UPTO C12A (5) GLOBE VALVES UPTO SIZE 10" CLASS 1500 & 4" CLASS 2500 UPTO F91			

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		Package/ पैकेज: EPC PACKAGES		Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची					REVISION NO.: 00	
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 20.05.2023	
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)	
S. N. क्र.सं.	Item/ मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedule क्यूपी उप.अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	Provenness Clause (Refer Note-1)
		I			FOURESS ENGG. INDIA LTD.	THANE	A		(1) 10"X600 # GATE/GLOBE/CHECK VALVES (2) 16"X300# GATE/GLOBE/CHECK VALVES (3) 24"X150# GATE/GLOBE/CHECK VALVE (4) 2"X800 # FS GATE/GLOBE/CHECK (LIST) AS PER BS5352 (B) GATE GLOBE/CHECK VALVES FOR 700# TO 1500#	
		I			BABCOCK VALVES	SPAIN	A		(1)CAST GATE VALVE (CS) VALVE CLASS UP TO 2500SPL & SIZE UP TO 10" (2)CAST GLOBE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 3 INCH (3) FORGED GLOBE VALVE (CS) CLASS UP TO 1500 & SIZE UP TO 1" (4) FORGED GLOBE VALVE (CS) CLASS UP TO 800 & SIZE UP TO 1.5"	
		I			FORBES MARSHALL PVT LTD	PUNE	A		CONVENTIONAL VALVES -CAST GATE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 10 INCH CAST GLOBE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 3 INCH	
		I			BABCOCK WILCOX ESPANOLA	SPAIN	A		CONVENTIONAL VALVES -CAST GATE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 10 INCH CAST GLOBE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 3 INCH	
		I			HP VALVES OLDENZAAL B V	NETHERLAND	A		CONVENTIONAL VALVES -CAST GATE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 10 INCH CAST GLOBE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 3 INCH	
		I			Aruna Industrial Products Pvt. Ltd.	MADURAI	A		REFER APPROVAL CONDITION	
		I			DRESSER INDUSTRIES	USA	A			
39	SAFETY VALVES (SPRING TYPE)	I			SAMPELL AG	GERMANY	A			
		I			TYCO (PENTAIR VALVES & CONTROLS	USA	A			
		I			FUKUI SEISAKUSHO CO LTD	JAPAN	A			
		I			RIENEKE GMBH	GERMANY	A		HYDRAULIC TYPE	
		I			BOPP & REUTHER	GERMANY	A		HYDRAULIC TYPE	
		I			MIEWA CORPORATION	JAPAN	A		(1) SAFETY VALVE SIZE 1/2" TO 6" & 150 TO 4500 CLASS	
		I			BHEL	TRICHY	A			
		I			PENTAIR SANMAR LTD	PUDUKOTTAI	A		AUX STEAM SYSTEM: UP TO 6" SIZE AND CLASS UP TO 600	

एनटीपीसी NTPC		Project/ परियोजना :KODARMA SUPER THERMAL POWER PROJECT Ph -II (2X800MW) Package/ पैकेज: EPC PACKAGES Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:						LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL खालिटी प्लान तथा सब -सप्लायर के अनुमोदन सहित मदों की सूची				DOC. NO./ दस्तावेज सं.: REVISION NO : 00 DATE/ तिथि : 20.05.2023 SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)		Provenness Clause (Refer Note-1)	
		S. N. क्र.सं.	Item / मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedu le क्यूपी उप.अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी				
			I			FAINGER LESER VALVES P LTD	AURANGABAD	A		SIZE(INELT/OUTLET): 200/300 MM APPLICABLE TO MAX DESIGN TEMPERATURE:474 DEG C & PRESSURE:47 KG					
40	ELECTROMATIC RELIEF VALVE (ERV)	I				VALVES TECHNOLOGIES	USA	A		(A) 1.5"X3" CLASS 3100- F91 MATERIAL (B) 2.5"X4", CLASS 1500-F91 MATERIAL					
		I				FUKUI SEISAKUSHO CO LTD	JAPAN	A							
		I				SAMPELL AG	GERMANY	A							
		I				DRESSER INDUSTRIES	USA	A							
		I				MEWA CORPORATION	JAPAN	A		SIZE UPTO 65MM & UPTO 4500 CLASS					
41	PLUG VALVE	I				FLOW SERVE INDIA CONTROLS	KANCHIPURAM	A		SIZE: 25 TO 300 MM, CLASS 150 & 300					
		I				3Z CORP.	SOUTH KOREA	A							
		I				HAWA VALVES	MUMBAI	A		UP TO 10" SIZE AND 300 CLASS					
42	BOILER STRUCTURE & FABRICATION ITEMS(MAIN & AUX COLUMNS, CEILING GIRDERS, BUILT-UP BEAMS, BRACINGS & BUCKSTAY), COAL BUNKER	I				M/S. BHEL	TIRUCHIRAPALLI	A		MAIN & AUX COLUMNS, CEILING GIRDERS, BUILT-UP BEAMS					
		I				CAPACITE	WADA, PALGHAR	A		(WELDED & BOLTED TYPE)BOILER PRIMARY STRUCTURES (CEILING GIRDER, MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACING, MILL BAY STRUCTURE APH SUPPORT STRUCTURE ETC.)					
		I				SALEM AUTOMECH (INDIA) PVT. LTD.,	SALEM	A		BOILER STRUCTURES, I.E. CEILING GIRDER					
		I				DIAMOND ENGINEERING (CHENNAI) PVT LTD.,, CHENNAI	KANCHIPURAM	A		FABRICATION OF BOILER STRUCTURES -AWB UNIT-2 FABRICATION OF BOILER STRUCTURES-CEILINER GIRDER, AWB, COLMNS ETC. - BOILER STURCTURES- FABRICATION, TRIAL ASSEMBLY, BLASTING(AWB, COLUMNS, CEILING GIRDER ETC.)					
		I				SALEM AUTOMECH UNIT-I & UNIT-II	SALEM	A		CEILING GIRDERS					
		I				QUALITY ENGG.WORKS	TRICHY	A		CEILING GIRDERS					
		I				INDOFAB	TRICHY	A		CEILING GIRDERS					
		I				SANTHI ENGG. UNIT-II	PUDUKKUDI	A		CEILING GIRDERS					
		I				MASTERFAB UNIT-II	DEVARAYANERI	A		CEILING GIRDERS					

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		I			ARCEOR MITTAL DHAMM PROCESSING PVT LTD	RANIPET	A		(WELDED & BOLTED TYPE)BOILER PRIMARY STRUCTURES (WITHOUT CEILING GIRDER) I.E.MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, APH SUPPORT STRUCTURE ETC.)				
		I			JSW SEVERFIELD STRUCTURES LTD	BELLARY	A		(WELDED & BOLTED TYPE) BOILER PRIMARY STRUCTURES (WITH OUT CEILING GIRDER) I.E. MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, APH SUPPORT STRUCTURE ETC.)				
		I			ATMASTCO (P) LTD	DURG	A		(WELDED & BOLTED TYPE) BOILER PRIMARY STRUCTURES (WITHOUT CEILING GIRDER) I.E.MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, APH SUPPORT STRUCTURE ETC. DUCTS)				
		I			ANG INDUSTRIES	SITARGANJ	A		FABRICATION AND SUPPLY WELDED TYPE BOILER STRUCTURES I.E. MAIN COLUMNS (PLUS AND BOX), AUTO WELDED BEAMS AND BRACINGS.				
		I			INDIANA GRATINGS PVT LTD	PURANDAR	A		FACTORY FABRICATED CIVIL STRUCTURE POWER HOUSE (TG BUILDING) STRUCTURAL ITEM (MAX SINGLE PIECE SIZE UPTO 15MT) (WELDED & BOLTED TYPE)				
		I			ESSAR HEAVY ENGINEERING SERVICES, (A UNIT OF ESSAR PROJECTS INDIA LTD)	SURAT	A		FABRICATION AND SUPPLY OF BUCKSTAYS				
		I			SIMPLEX ENGINEERING & FOUNDRY WORKS PVT LTD	BHILAI	A		(WELDED & BOLTED TYPE) BOILER PRIMARY STRUCTURES (WITH OUT CEILING GIRDER) I.E. MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, AP				
		I			SIMPLEX ENGG & FOUNDRY WORKS	UNIT 2, BHILAI	A		CEILING GIRDERS				
		I			SEAM INDUSTRIES LIMITED	NAGPUR	A		WELDED STRUCTURE UPTO 15T.FABRICATION AND SUPPLY OF BUNKERS & BUNKER STRUCTURES, BUCKSTAYS AND DUCTS.				
		I			SHIVAM HITECH STEELS PVT. LTD	BHILAI	A		HORIZONTAL BRACE/CIRCULAR HOLLOW SECTION ,BUCKSTAY,DUCTS				

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		QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedu le क्यूपी उप.अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची					
		I			ENESTEE ENGINEERING LTD.,	NAGPUR	A		FABRICATION & SUPPLY OF BUNKERS & BUNKER STRUCTURES .BUCKSTAY,DUCTS				
		I			SSV ENGINEERS PVT. LTD.,	PUNE	A		COAL SILOS, BUCKSTAY, DUCTS				
		I			ALLIANCE INTEGRATED METALIKS LTD.,	RAJPUTRA	A		BOILER PRIMARY STRUCTURES (EXCLUDING CEILING GIRDER)				
		I			TECHNOFAB MANUFACTURING LTD.	CHENNAI	A		FABRICATION AND SUPPLY OF BUNKER, BUNKER STRUCTURE, TPs & CONVEYER GALLERIES,DUCTS				
		I			BABY ENGINEERING PVT. LTD.,	THUVAKUDI	A		BOILER PRIMARY STRUCTURES (EXCLUDING CEILING GIRDER) (WELDED & BOLTED TYPE)				
		I			COREFAB PROJECTS PVT LTD.,	BHILAI	A		FABRICATION & SUPPLY OF BOILER PRIMARY STRUCTURES - MAIN & AUX. COLUMNS, BUILT UP BEAM, BUCKSTAYS, BRACINGS, MILL BAY STRUCTURE AND APH SUPPORT STRUCTURE (EXCLUDING CEILING GIRDERS),DUCTS (WELDED & BOLTED TYPE)				
		I			MIURA INFRASTRUCTURE PVT. LTD	BHILAI-	A		BOILER PRIMARY STRUCTURE - MAIN & AUX. COLUMNS, BUILT UP BEAMS, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, APH SUPPORT STRUCTURE (EXCLUDING CEILING GIRDERS) UPTO MAXIMUM SINGLE PIECE WEIGHT OF 30 MT (WELDED & BOLTED TYPE)				
		I			METALFAB HIGHTECH PVT LTD.	NAGPUR	A		FABRICATION AND SUPPLY OF BUCKSTAYS ,DUCTS,(WELDED & BOLTED TYPE), COAL BUNKER				
		I			WHEELS INDIA LTD.	WARDHA	A		MANUFACTURING OF WELDED TYPE STRUCTURES I.E. AUTOWELDED BEAMS BRACING AND COLUMNS (UPTO 15T) .BUCKSTAY ,DUCTS(WELDED & BOLTED TYPE)				
		I			NOVOTECH PROJECTS (I) PVT LTD	KOLKATA	A		BUNKER STRUCTURE, TPs & TRESTLES				
		I			JINDAL STEEL & POWER LTD. (JSPL)	RAIGARH	A		PRIMARY STRUCTURE & CEILING GIRDER (WELDED & BOLTED TYPE)				
		I			AJANTHA FABRICATOR WORKSUNIT-II	PUDUKKOTTAI	A		BOILER PRIMARY STRUCTURES- COLUMNS, BEAMS, BRACINGS AND CEILING GIRDERS (WELDED & BOLTED TYPE)				

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		I			FEEDERS LLOYDS	SIKANDRABAD	A		PRIMARY STRUCTURE - MAIN COLUMNS, AUX COLUMNS, BUILT UP BEAMS, BOXES, BUCKSTAY (WELDED & BOLTED TYPE)
		I			L&T HEAVY FORGING & SPECIAL STEEL	HAZIRA	A		CEILING GIRDER
		I			VASAN INDUSTRIES	PUDUKKOTTAI	A		BOILER PRIMARY STRUCTURES(WELDED AND BOLTED TYPE)
		I			REGIONAL ENGINEERING WORKS	THUVVAKKUDY	A		BOILER PRIMARY STRUCTURE(WELDED AND BOLTED TYPE)
		I			VRINDA ENGINEERS	PANAGARH, WB	A		COAL BUNKERS
		I			GREAT INDIA FABRICATORS	YAMUNANAGAR	A		BOILER PRIMARY STRUCTURES EXCLUDING CEILING GIRDER(WELDED AND BOLTED TYPE), LIMITATIONS AS PER APPROVAL CONDITIONS
		I			Goodluck Steel Tubes	Sikenderabad	A		Buckstay
		I			GEW	Sikenderabad	A		Buckstay
		I			JSPL	Angul	A		Boiler Primary Structure (Excluding Ceiling Girder)
		I			L&T Limited ECC Workshop	Kanchheepuram	A		Boiler Primary Structure (Excluding Ceiling Girder)
		I			JSPL	Raipur	A		Primary Structure -Ceiling Girder -Sub to approval condition
		I			Steel Infra Solutions Private Limited(SISCOL)	Bhilai	A		Boiler Primary Structure (Excluding Ceiling Girder) and column directly supporting ceiling girders-Sub to approval condition
43	ELECTRO FORGED GRATINGS	II			INDIANA GRATINGS PVT. LTD	PUNE	A		
		II			KARDEANAND UDYOG	PUNE	A		
		II			PREMIER POWER PRODUCTS LTD	HOWRAH	A		
		II			BHOLA RAM STEEL PVT. LTD	PATNA	A		
		II			PINAX STEEL INDUSTRIES PVT LTD	PATNA	A		
		II			GREATWELD STEEL GRATING PVT. LTD	PUNE	A		
		II			VIN FAB ENGG. PVT LTD.,	MUMBAI	A		
		II			Ratan Project & Engineering	Howrah	A		
44	TANKS & VESSELS(IBD, CBD, FLASH TANK ETC)	I			KPHE	SOUTH KOREA	A		

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		I			SV TANKS & VESSELS	MUMBAI	A				
		I			PROGEN SYS TECH LTD	CHENNAI	A		UP TO 4 KSC PR		
		I			FAB TECH	PUNE	A				
		I			UNITECH MACHINES LTD	SAHARANPUR	A		UP TO 10 KSC PR		
		I			SEAM IND P LTD	NAGPUR	A		UP TO 10 KSC PR		
		I			SHAKTI HI TECH CONST PVT LTD	CHENNAI	A		UP TO 10 KSC PR		
		I			SOUTHERN HEAVY ENGG & FAB PVT LTD	CHENNAI	A		UP TO 10 KSC PR		
		I			ALTECH INFRASTRUCTURE(I) PVT LTD	ALWAR	A		UP TO 16 KSC PR		
		I			SEAM INDUSTRIES PVT LTD	NAGPUR	A		UP TO 16 KSC PR		
45	SOOT BLOWER PRESSURE REDUCING VALVES & BLOCK	I			REFER QA C&I LIST		A				
46	FITTINGS(GRADE 91/92)	I			PETROL RACCORD SPA	ITALY	A		FORMED AND FORGED FITTINGS 91/92 GRADE		
		I			BOKOYOUNG METAL CO.	SOUTH KOREA	A		FORGED FITTINGS AS PER SA-182 F92 GRADE (REDUCERS, NOZZLE, HALF COUPLING ETC.)		
		I			TF TECH CO. LTD	SOUTH KOREA	A		FORGED FITTINGS AS PER SA-182 F92 GRADE (REDUCERS, NOZZLE, HALF COUPLING ETC.)		
		I			FLASH FORGE	VIZAG	A		P91 FORMED/FORGED UPTO DIA 273MM & THICK 30MM		
		I			BGH EDELSTAHL SIEGEN GMBH	GERMANY	A		MANUFACTURE AND SUPPLY OF FORGED FITTINGS OF CS, AS AND SS GRADES		
		I			ERNE FITTINGS GMBH	AUSTRIA	A		P-91 FORMED		
		I			GAM RACCORDI SPA	ITALY	A		P-91 FORMED		
		I			TECHNO FORGE SPA	ITALY	A		P-91 FORMED		
		I			MEGA SPA	ITALY	A		92 GRADE FITTINGS (FORGED)		
		I			BASSI LLUIGI SPA	ITALY	A		P-91 FORGED/WELDED		
		I			IBF SPA	ITALY	A		FORMED AND FORGED FITTINGS/P92 GRADE		
		I			ALLIED INT. (TACTUBI RACCORDI SPA, VIA ROMA 150, 29027 PODENZANO)	ITALY	A		P-91 FORMED		
		I			BRUCK STRASSE 16 ENSHEIM	GERMANY	A		P-91 FORGED/WELDED		
		I			SUNGKWANG BEND CO. LTD.,	SOUTH KOREA	A		FITTINGS OF P91 AND OF MTERIAL OTHER THAN P91 OF BOILER		
		I			TK CORPN. FORGITAL	S KOREA	A		FORMED FITTINGS (ELBOW, TEES, REDUCERS ETC.) OF 2 GRADE.		

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		I			FORGITAL	ITALY	A		MANUFACTURING AND SUPPLY OF GRADE 91 FORTGINGS (HOLLOW FORGINGS/MATCHING PIECES WITH 508MM DIA X 75MM THICKNESS STUBS WITH OD 245MM.	
		I			DEE DEVELOPMENT	PALWAL	A		GRADE 91 WITH SIZE/TYPE LIMITATIONS	
		I			CHW FORGE	GHAZIABAD	A		GRADE 92 WITH SIZE/TYPE LIMITATIONS	
		I			FORGIATURA MORANDINI SRL	ITALY	A		GRADE 92 FORGED FITTINGS(REDUCERS, TEES & Y-PIECES)	
		I			BHARAT FORGE, PUNE	PUNE	A		GRADE 92 FORGED FITTINGS(REDUCERS, TEES & Y-PIECES)	
		I			BOKYOUNG METAL CO.LTD	SOUTH KOREA	A		GRADE 92 FORGED FITTINGS(REDUCERS, NOZZLE, HALF COUPLING)	
		I			VIAR SPA	ITALY	A		SEAMLESS FORGED Y-PIECE UP TO GRADE 91	
		I			DEE DEVELOPMENT	PALWAL	A		GRADE 92 WITH SIZE/TYPE LIMITATIONS	
		I			Goodluck Engineering Co.	Dadri	A		Forged Fittings (91/92 grade)	
47	AUX PRDS SYSTEM (INCLUDING CONTROL VALVE)	I			REFER C&I LIST					
48	CHEMICAL DOSING SYSTEM (SKID ASSY) FOR SG SCOPE INCLUDING AUX BOILER	I			POWER PIPING	TRICHY	A			
		I			V K PUMPS	MUMBAI	A			
		I			MILTON ROY	CHENNAI	A			
		I			TECHNO CONSULTANTS	MUMBAI	A			
		I			POSITIVE METERING SYSTEM	NASIK	A			
		I			PSI ENGG SYSTEM	CHENNAI	A			
		I			Priorites Equipments Pvt. Ltd.	Pune	A		LP Chemical Dosing System (NaOH/Ammonia/Hydrazine)	
49	SG CW BOOSTER PUMP/ ECW PUMP	I			KBL	WADI	A			
		I			WPIL LTD	GHAZIABAD	A			
		I			SAM TURBO	COIMBATORE	A			
		I			KSB	PUNE	A			
		I			BEST & CROMPTON ENGG LTD	CHENNAI	A			
		I			JYOTI LTD	BARODA	A			

		Project/ परियोजना :KODARMA SUPER THERMAL POWER PROJECT Ph -II (2X800MW)		Contract No./ अनुबंध सं.:			LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्वीकृति प्लान तथा सब -सप्लायर के अनुमोदन सहित मटेरि की सूची			DOC. NO./ दस्तावेज सं.: REVISION NO : 00 DATE/ तिथि : 20.05.2023 SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)		Provenness Clause (Refer Note-1)	
S. N. क्र.सं.	Item / मद्द	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedule क्यूपी उप. अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता		Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी			
		I			FLOWMORE		GHAZIABAD	A					
50	COAL BUNKER	I						A		REFER BOILER STRUCTURE LIST			
51	LUBE OIL SYSTEM FOR MILLS	I			LINCOLN HELIOS		BANGALORE	A					
		I			T A HYDRAULICS		HYDERABAD	A					
		I			CENLUB INDUSTRIES		FARIDABAD	A					
		I			BHEL		HYDERABAD	A					
		I			BIJUR DELIMON INDIA PVT LTD		PUNE	A					
		I			UNIQUE ENGINEERING ENTERPRISE P LTD		HYDERABAD	A					
		I			SOUTHERN LUB		BANGALORE	A					
52	CERAMIC LINED BEND COAL PIPES	II			BHEL EDN		BANGALORE	A					
		II			BMW		HATHRAS/ROURK EE	A					
		II			CARBORANDUM UNIVERSAL		HOSUR	A					
		II			BHEL IP		JAGDISHPUR	A					
53	KNIFE EDGE GATE VALVES AT MILL OUTLET AND BURNER INLET	II			GALAXY CONTROLS PVT LTD		CHENNAI	A		UP TO SIZE 26"			
		II			ORBINOX INDIA PVT LTD		COIMBATORE	A		UP TO SIZE 30"			
		II			BRAY CONTROLS		CHENNAI	A		UP TO SIZE 28"			
		II			JASH ENGG LTD		INDORE	A		UP TO SIZE 30"			
54	VIS FOR FANS	I			GERB		BANGALORE	A					
55	LOS FOR FD, PA & ID FANS	I			PSI ENGG		CHENNAI	A					
		I			CENLUB		FARIDABAD	A					
		I			LINCOLN HELIOS		BANGALORE	A					
		I			BHEL		RANIPET	A					
		I			SOUTHERN LUBRICATION		BANGALORE	A					
		I			TA HYDRAULICS		HYDERABAD	A					
56	GATES AND DAMPERS	I			BACHMANN		FARIDABAD	A					
		I			FOURESS INDIA		BANGALORE	A					
		I			INDIRA DAMPERS		RANIPET	A					
		I			KAMAL ENGG		YAMUNANAGAR	A					
		I			BACHMANN		CHENNAI	A		GUILLOTINE GATE(2700 MM HEIGHT)			
		I			DAMPER TECHNOLOGY INDIA PVT LTD		COIMBATORE	A					

एनटीपीसी NTPC		Project/ परियोजना :KODARMA SUPER THERMAL POWER PROJECT Ph -II (2X800MW) Package/ पैकेज: EPC PACKAGES Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्वीकृति प्लान तथा सब -सप्लायर के अनुमोदन सहित मटेरि मदी की सूची				DOC. NO./ दस्तावेज सं.: REVISION NO : 00 DATE/ तिथि : 20.05.2023 SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)		Provenness Clause (Refer Note-1)
		S. N. क्र.सं.	Item / मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedule le क्यूपी उप.अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submittion schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी		
			I			Flexathern Expanflow Pvt.Ltd	Block No-400/B, Karjan, Vadodara	A		Gates & Dampers(Flow Area/Cross-sectional area upto 5600mm X 5600mm)			
57	PA Fans		I			Bharat Heavy Electrical Limited	Ranipet	A					
			I			L&T- Howden Private limited	Hazia	A					
			I			TLT-Turbo GmbH	Germany	A					
			I			Howden	Denmark	A					
58	ID Fans		I			Bharat Heavy Electrical Limited	Ranipet	A					
			I			TLT Turbo GmbH	Germany	A					
			I			L&T Howden Private Limited	Hazira	A					
			I			Howden	Denmark	A					
59	FD Fan		I			Bharat Heavy Electrical Limited	Ranipet	A					
			I			L&T Howden Private Limited	Hazira	A					
			I			TLT-Turbo GmbH	Germany	A					
			I			Howden	Denmark	A					
60	Coal Pulverisers		I			BHEL	Hyderabad	A					
			I			L&T MHPS Boilers Pvt. Ltd.(LMB) (Incl. Manufacturing Facility of L&T)	Hazira	A					
			I			Loesche Energy system India pvt ltd.	Chennai	A					
			I			Doosan Heavy Industries & Construction Co. Ltd	South Korea	A					
61	Raw Coal Feeders		I			Bharat Heavy Electricals Limited	Trichy	A					
			I			Schenck Process (Stock Redler India Private Limited, India)	Bengaluru	A					
			I			Merrick Industries Pvt. Ltd., India	Bengaluru	A					
			I			Yamato Scale	Japan	A					
			I			FLSmidth	Haryana	A					
62	Boiler Start Up Drain Re-Circulation Pump		I			Torishima Pump Mfg Co. Ltd.,	Japan	A					
			I			Hayward Tyler Limited	UK	A					
			I			KSB AG	Germany	A					
63	Air Pre-Heaters		I			Bharat Heavy Electricals Limited	Ranipet	A					
			I			L&T Howden Private Limited	Hazira	A					
			I			Arvos India Pvt.Ltd.	Chennai	A					
64	Auxiliary Boiler		I			ISGEC John Thompson (JIT)	Yamuna Nagar	A					

एनटीपीसी NTPC		Project/ परियोजना :KODARMA SUPER THERMAL POWER PROJECT Ph -II (2X800MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब -वेयर के अनुमोदन सहित मदों की सूची				DOC. NO./ दस्तावेज सं.:		
		Package/ पैकेज: EPC PACKAGES		Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची				REVISION NO : 00		
		Supplier/ आपूर्तिकर्ता:						DATE/ तिथि : 20.05.2023		
		Contract No./ अनुबंध सं.:						SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)		
S. N. क्र.सं.	Item/ मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedule Is क्यूपी उप.अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier	Remarks/ टिप्पणी	Provenness Clause (Refer Note-1)
		I			Thermax Babcock & Wilcox Ltd.	Pune	A			
		I			Bharat Heavy Electricals Limited & BHEL (HVPB)	Trichy, Vizag	A			
		I			Bharat Heavy Electricals Limited	Ranipet	A			
65	ESP	I			Larsen & Toubro Limited	India	A			
		I			GE Power India	India	A			
Main Contractor approved sources										
1	ALUMINIUM CLADDING	III								
2	NON IBR PIPING / LP PIPING - PRESSURE UP TO 10 KSC	III								
3	CASTABLE REFRACTORY	III								
4	POURABLE INSULATION	III								
5	STEEL STRUCTURE FOR DUCTS, FURNACE ENCLOSURE, GUIDE, STAIRS & LADDERS, HANDRAILS, PLATFORMS	III								
6	SILENCERS	III								
7	COAL PIPES & BENDS (WITHOUT CERAMIC LINERS)	III								
8	FITTINGS(CS, SS & AS UP TO GRADE 22)	III								
9	ELECTRIC HOIST WITH TROLLEY, UNDERSLUNG CRANE < 05 TON CAPACITY	III								
10	DUCTS	III								
11	AIR RECEIVER TANK	III								
12	COUPLING FOR FANS	III								
13	SCAPH	III								
14	OXYGEN DOSING SYSTEM	III								
15	CE & DE SUSPENSION ASSEMBLY WITH RAPPING(MECHANICAL) MECHANISM	III								
16	PERFORATED GD PLATE/SCREEN	III								
17	ESP SUPPORT STRUCTURE (COLUMNS & ROOF BEAMS MANUFACTURED FROM ROLLED SECTIONS), CASING	III								
18	ESP- MECH SAFETY INTERLOCK	III								
19	Spray header for FGD	III								
20	Mist eliminators for FGD	III								

Project/ परियोजना :KODARMA SUPER THERMAL POWER PROJECT Ph -II (2X800MW) Package/ पैकेज: EPC PACKAGES Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:										LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्वालिटी प्लान तथा सब -वेंडर के अनुमोदन सहित मर्दों की सूची			DOC. NO./ दस्तावेज सं.: REVISION NO : 00 DATE/ तिथि : 20.05.2023 SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)	
S. N. क्र.सं.	Item / मर्द	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी. सं.	QP Sub. Schedule ले क्यूपी उप/अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	Provenness Clause (Refer Note-1)				
21	STEEL STRUCTURE FOR DUCTS, FURNACE ENCLOSURE, GUIDE, STAIRS & LADDERS, HANDRAILS, PLATFORMS	III			Main Contractor approved sources									
22	HANGER & SUPPORTS/OTHER THAN CLH & VLH) RIGID HANGERS	III			Main Contractor approved sources									
23	SNUBBERS	III			Main Contractor approved sources									
24	Oil Preheater & Pressuring Skid	III			Main Contractor approved sources									
NOTE -1 : For final Sub-QR approval , document required to be submitted as per Sub-QR requirements given in the specification.														
NOTE-2: Vendors under 'A' are approved and accepted by NTPC with/without conditions in the past. Similar conditions as the case may be for the vendor shall be applicable for this project and tied up in the quality plan.														
NOTE-3: Predespatch inspection for Alloy/SS Grades needs to be tied up by Main contractor or Third-party inspection agency as required.														
NOTE-4 : (S) Review of Mill TC for Raw Material to be done by NTPC and shall be included in the QP of corresponding equipment.														
NOTE-5: Raw Material for 91 and above Grade Material Fittings to be from NTPC approved sources as per Raw Material vendor List.														
NOTE-6:For Motorized/Pneumatic actuated valves the suppliers for actuators shall be from NTPC approved list, Refer NTPC C&I list.														
LEGENDS/ संकेतिका														
SYSTEM SUPPLIER/SUB-SUPPLIER APPROVAL STATUS CATEGORY /प्रणाली आपूर्तिकर्ता / सब -वेंडर की स्वीकृति की स्थिति की श्रेणी (SHALL BE FILLED BY NTPC एनटीपीसी द्वारा भरा जाएगा)														
A – For these items proposed vendor is acceptable to NTPC. To be indicated with letter "A" in the list along with the condition of approval, if any./ इन मर्दों के लिए प्रस्तावित वेंडर एनटीपीसी को स्वीकार्य है। अनुमोदन की शर्त, यदि कोई हो, के साथ-साथ पत्र "क" में इंगित किया जाए।														
DR – For these items "Detailed required" for NTPC review. To be identified with letter "DR" in the list. एनटीपीसी द्वारा इन मर्दों की समीक्षा के लिए "विस्तृत ब्योरे की आवश्यकता" होगी। सूची में "DR" पत्र में इंगित किया जाना चाहिए।														
QP/INSPN CATEGORY: क्यूपी / निरीक्षण की श्रेणी:														
CAT-I / श्रेणी: I: For these items the Quality Plans are approved by NTPC and the final acceptance will be on physical inspection witness by NTPC. इन मर्दों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है और एनटीपीसी द्वारा अंतिम स्वीकृति भौतिक निरीक्षण के दौरान उपलब्ध गवाह के आधार पर दी जाएगी।														
CAT-II / श्रेणी: II: For these items the Quality Plans approved by NTPC. However no physical inspection shall be done by NTPC. The final acceptance by NTPC shall be on the basis review of documents as per approved QP. इन मर्दों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है। हालाँकि एनटीपीसी द्वारा कोई भौतिक निरीक्षण नहीं किया जाएगा। एनटीपीसी द्वारा अंतिम स्वीकृति अनुमोदित क्यूपी के अनुसार दस्तावेजों की समीक्षा के आधार पर दी जाएगी।														
CAT-III/ श्रेणी:III : For these items Quality control to be exercised as per Main contractor Quality Assurance System. The final acceptance by NTPC shall be on the basis of Certificate of Conformance (COC) by Main Contractor.														
UNITS/WORKS इकाईयां / कार्य: Place of manufacturing/ निर्माण का स्थान Place of Main Supplier of multi units/बहु- इकाईयां / कार्य के मुख्य सप्लायर का स्थान.														

PROJECT : KODERMA-II (2X800MW) PACKAGE : EPC PACKAGE CONTRACTOR : CONTRACT NO :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL							REVISION NO : 00 DATE : 02.05.2023 SUB SECTION: QA-TG(MECH)		
Sr No	Item Description	QP Inspection Category	QP No	QP submission at SCH	QP approval at SCH	Proposed Sub Supplier	Country	SS Approval Status	SS Detail Sub.SCH	SS Approval SCH	Remark	Package Applicable	Provenness Clause (Refer Note-I)
1	HP/IP Outer Casing Casting (1.25Cr & 2.25Cr)	I				Voestalpine	Austria	A					
						JCFE	Japan	A					
						JSW	Japan	A					
						GE	Poland	A					
						Kobe Steel	Japan	A					
						Starwire	Fardabad	A					
						Sande Stahlguss GmbH	Germany	A					
						ISGEC	Muzaffarnagar	A					
						LMB Heavy Casting Unit	Hazira	A					
						BHEL-CFPP	Haridwar	A					
2	HP/IP Inner Casing Casting including Turbine admission valves (9 Cr)	I				Voestalpine	Austria	A					
						JCFE	Japan	A					
						JSW	Japan	A					
						GE	Poland	A					
						Kobe Steel	Japan	A					
						Starwire	Japan	A					
						Sande Stahlguss GmbH	Germany	A					
						Gruppo Cividale	Italy	A					
						LMB Heavy Casting Unit	Hazira	A					
						BHEL-CFPP	Haridwar	A					
3	HP/IP Inner & Outer Casing including Turbine admission valves Machining	I				Voestalpine	Austria	A					
						Sande Groditz	Germany	A					
						LMTG	Hazira	A					
						MHPS	Japan	A					
						FUZI ELECTRIC	Japan	A					
						ROSSEL DUSO	Venice	A					
						Toshiba works	Japan	A					
						TIPS	Chennai	A					
						GE	Sanand	A					
						BRUNO PRESEZZI	Italy	A					
4	HP/IP/LP Turbine shaft Forging	I				NUGO ROMANO	Italy	A					
						BHEL (HEEP)	Haridwar	A					
						Siemens	Germany	A					
						GMW	Germany	A					
						Sharp	Pune	A					
						BILFINGER MAS GMBH	Austria	A					
						JCFE (Japan Casting & Forging Corp.)	Japan	A					
						SAARSCHMIEDE	Germany	A					
						JSW	Japan	A					
						Pacific Steel Mfg Co Ltd	Japan	A					
5	Turbine shaft machining	I				Schmiedewerke Groditz	Germany	A					
						Buderus Edelstahl	Germany	A					
						Cruetot Forge	France	A					
						Kobe Steel	Japan	A					
						SDF	Italy	A					
						Siemens	Germany	A					
						Franco Tosi	Italy	A					
						BHEL (HEEP)	Haridwar	A					
						ROSSEL DUSO	Italy	A					
						BRUNO PRESEZZI	Italy	A					

PROJECT : KODERMA-II (2X800MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL										REVISION NO : 00 DATE : 02.05.2023 SUB SECTION: QA-TG(MECH)	
PACKAGE : EPC PACKAGE													
CONTRACTOR :													
CONTRACT NO :													
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status	SS Detail Sub.SCH	SS Approval SCH	Remark	Package Applicable	Provenness Clause (Refer Note-I)
6	HP/IP/LP Stationary & Moving Blades Bar stock	I				TJPS	Chennai	A					
						MHPS	Japan	A					
						LMTG	Hazira	A					
						FUZI ELECTRIC	Japan	A					
						Bohler	Austria	A					
						Bohler Schmiedetechnik	Germany	A					
						WELZWERKE REVEINE	Germany	A					
						DIDO	Japan	A					
						Hitaichi	Japan	A					
						Starwire	Ballabgarh	A					
						Gloria Material Technology Corp	Taiwan	A					
						Acciaierie Valbruna S.p.a.	Italy	A					
						BGH Edelsahl GmbH	Germany	A					
						Carpenter Technology Co.	USA	A					
						Daido	Japan	A					
7	HP/IP/LP Stationary & Moving Blades Machining(From Bar)	I				Sz-metal Ravne D.o.o.	Slovenia	A					
						Einsal	Germany	A					
						Walzwerke Einsal	Switzerland	A					
						Nichia Tanko Co Ltd	Japan	A			LP Blades		
						SET	Hungary	A					
						MHPS	Japan	A					
						Leitritz-Numberg	Germany	A					
						Energietechnik Einsal	Germany	A					
						Prawest	Germany	A			FOR LP STATIONARY BLADES		
						ZEMA	Italy	A			FOR LP STATIONARY BLADES		
						LMTG	Hazira	A					
						GE	Switzerland/Germany/Sanand	A					
						Enem Excel	Hyderabad	A					
						TJPS	Chennai	A					
						Toshiba	Japan	A					
8	LP Forged Blades(Drop)-Material	II				BHEL (HEEP)	Hardwar	A					
						Siemens	Germany	A					
						QTPL	Bangalore	A			For Guide Blades		
						AZAD ENGG	Hyderabad	A					
						MHPS	Japan	A					
						GE	Switzerland	A					
						Leitritz Turbinenkomponenten	Germany	A					
						SMB SA	Switzerland	A			For L1 stage(Last but one) blades		
						C-BLADE SPA	Italy	A					
						BOHLER	Austria	A					
						PIETRO ROSA	Italy	A					
						MHPS	Japan	A					
						C Blade	Italy	A					
						Sumitomo (Manfg. by Sumiju Precision Forgings)	Japan	A					
						PIETRO ROSA	Italy	A					
9	LP Forged Blades(Drop) Machining	I				Leitritz Turbinenkomponenten	Germany	A					
						Bohler	Austria	A					
						Toshiba	Japan	A					
						ALSTOM	Switzerland	A					
						AZAD ENGG	Hyderabad	A					
						Zollern	Germany	A					
						Consolidated Precision Product	Belgium	A			Previous Name ESCO		

PROJECT : KODERMA-II (2X800MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL										REVISION NO : 00 DATE : 02.05.2023 SUB SECTION: QA-TG(MECH)	
PACKAGE : EPC PACKAGE													
CONTRACTOR :													
CONTRACT NO :													
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status	SS Detail Sub.SCH	SS Approval SCH	Remark	Package Applicable	Provenness Clause (Refer Note-I)
10	LP Cast Blades(material) & Machining	I				Formetal (cismocisco)	Italy	A			For casting		
						Juergens	Germany	A			For casting		
						GE Power Systems	Germany	A					
						IPCL	Bhaviagar	A					
						EXCEL HITECH	Ghaziabad	A			For casting		
						AK ALLOYS	Ahmedabad	A					
11	LP Hollow Blades	I				PTC	Lucknow/Mehsana	A					
						AMBE ENGG-	Ghaziabad	A			For Machining only		
						Binder	Switzerland	A					
						Prime Hi-Tech Engineering Limited	Nadupet, AP	A					
						LMTG	Hazira	A					
						BHEL (HEEP)	Hardwar	A					
12	LP Inner/Outer casing Fabrication	I				SHARP	Pune	A					
						Shape Engg.	Hardwar	A					
						GE	Croatia/GE	A					
							Shahbad	A					
						D&N	Germany	A					
						KCP	Chennai	A					
13	LP Inner casing Casting (GGG40)	I				ISGEC(Weight upto 38T)	Yamanagar	A					
						GE Power sp. Z.o.o	Poland	A					
						L&T	Kansbahal	A					
						FWH Friedrich Wilhems-Hute GmbH	Germany	A					
						Heidenheimer Gressen GmbH	Germany	A					
						Pilsen Steel	Czech	A					
14	LP Inner/Outer casing Machining	I				Buderus Spezialguss GmbH	Germany	A					
						LMTG	Hazira	A					
						BHEL (HEEP)	Hardwar	A					
						TJPS	Chennai	A					
						MHPS	Japan	A					
						SHARP	Pune	A					
15	LP Crossover Pipe	I				LONE STAR	Chennai/Cheyyar	A					
						Hatec	Germany	A					
						Rohr-und Anlagenbau (ROBA)	Germany	A					
						Seonghwa	S Korea	A					
						Dee Development	Ballabgarh	A					
						HKR	S Korea	A					
16	Electro-Hydraulic Actuators	I				Babylon	Germany	A					
						Eichhoff	Germany	A					
						LMTG	Hazira	A					
						Mech engineers	Valsad	A					
						MHPS	Japan	A					
						GE	Germany	A					
17	Hydraulic Power Pack Unit	I				Horst Thiele	Germany	A					
						Bosch Rexroth	Germany	A					
						MOOG	Japan	A					
						Bosch Rexroth	Germany	A					
						Bosch Rexroth	Ahmedabad	A					
						Hydac	Germany	A					
18	Actuator & Valve For CRIL-NRV & OC-NRV	I				Hydac	Combatore	A					
						Weir	USA	A					
						Cesare Bonetti	Italy	A					
						BABCOCK	Spain	A					

PROJECT : KODERMA-II (2X800MW) PACKAGE : EPC PACKAGE CONTRACTOR : CONTRACT NO :		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL										REVISION NO : 00 DATE :02.05.2023 SUB SECTION: QA-TG(MECH)		Provenness Clause (Refer Note-1)	
Sr No	Item Description	QP Inspection Category	QP No	QP submission at SCH	QP approval at SCH	Proposed Sub Supplier	Country	SS Approval_Status	SS Detail Sub.SCH	SS Approval SCH	Remark	Package Applicable			
19	HP/IP/LP Shaft Seals	II				ADAMS	Germany	A							
						BHEL	Trichy	A				Upto 850NB & Class upto 900 special			
						SEMPPELL	Germany	A							
						TPT	S Korea	A							
						Starwire	Ballabgarh	A				For INGOTS			
						Kollhapur Steel	Kollhapur	A							
						Silbitz Guss	Germany	A							
						StahlgussSaar	Germany	A							
						GE	Sanand	A							
						PMT	Pune	A							
20	TG Bearings	I				Wellbore	Ahmedabad	A							
						Bharat Forge	Pune	A							
						Indo air	Ahmedabad	A							
						Toshiba	Japan	A							
						GE	Germany	A				For Thrust Bearing			
						Kingbury	USA	A							
						Omega	Bhopal	A							
						Eurobearing	Italy	A							
						John Crane Bearing	Germany	A							
						BHEL (HEEP)	Haridwar	A							
21	MOP/EOP	I				Wuakesha Bearing	UK	A							
						Euro Bearings	Faridabad	A							
						Kingsbury	USA	A							
						Allweiler	Germany	A							
						ABB	Switzerland	A							
						Bosch Rexroth	Germany/ Switzerland	A							
						Toshiba	Japan	A							
						Ebara Yoshikura Hydrotec Ltd	Japan	A							
						Bosch Rexroth	Germany /Switzerland	A							
						Allweiler	Germany	A							
22	Jacking Oil Pump	I				Leistritz	Germany	A							
						MITTEN MANUFACTURING, INC	USA	A							
						PARKER HANIFIN	Japan	A							
						Allweiler	Daman	A							
						Facet	Spain	A				Coalescer Type			
						Pall Corporation	USA	A				For control fluids			
						Alfa Laval	Pune	A				Centrifuge Type			
						Hilliard	USA	A				Coalescer Type			
						Kaydon Filtration	USA	A				Coalescer Type			
						Westfalia Separator India Pvt Ltd	Germany/ Bangalore	A							
23	Oil Purification Unit	I				Roring	Germany	A							
						Rockfin Group	Poland	A							
						Hydac	Germany	A							
						Boll & Kirch	Germany	A							
						Rockfin	Poland	A							
						BHEL Piping Center	Chennai	A							
						Unitech	Saharanpur	A							
						Bend Joints	Bhopal	A							
						Pal Engineering	Yamunanagar	A							
						Seonghwa	S Korea	A							
24	Duplex Oil Filter With Oil Changeover Valve	I				L&T Piping Center	Hazira	A							
						Dee Development	Ballabgarh	A							
25	Turbine Integral Piping	I													

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Sr No	Item Description	QP Inspection Category	QP No	QP submis sion at SCH	QP approv al SCH	Proposed Sub Supplier	Country	SS Approval_Status	SS Detail Sub.SCH	SS Approval SCH	Remark	Package Applicable	Provenness Clause (Refer Note- 1)
26	Oil Module including Central Lubrication System	I				Kelag	Switzerland	A					
						VDL Delmas	Germany	A					
						Hydac India Pvt. Ltd.	Coimbatore	A					
						AEL	Germany	A					
						Flenco	Italy	A					
						Hydac	Germany	A					
27	Thermal Insulation	II				King Dynamics	Switzerland	A					
						Southern Lubrication	Bangalore	A					
						ENPRO	Pune	A					
						Eugen Arnold GmbH	Germany	A					
						Heinrich Tapp GmbH	Germany	A					
						Lloyds Insulation	India	A					
28	Condenser (water cooled) (Sub QR Item)	I				Minwool Rock Fibre	Bhilai	A					
						Thermocare	Rajnandgaon	A					
						Dhanbad Rockwool Insulation	Dhanbad	A					
						Minsulate Manufacturing Co.	Jamshed	A					
						MHI	Japan	A					
						THERMAL ENGG INTERNATIONAL (TEI)	USA	A					
29	Condenser Fabricator (water cooled)	I				TIPS	Chennai	A					
						TOSHIBA CORPORATION LTD	Japan	A					
						LMTG	Surat	A					
						BHEL	Hardwar	A					
						ABFPL	Sanand	A					
						GE	Switzerland	A					
30	HP Heaters (Sub QR Item)	I				ISGEC	Yamunanagar	A					
						GE Power india Ltd.	Durgapur	A					
						Godrej & Boyce Manufacturing Company Ltd.	Mumbai	A					
						TEMA India Ltd.,	Thane	A					
						TOSHIBA CORPORATION LTD	Japan	A					
						TIPS	Chennai	A					
31	LP/HP Heater Fabricator	I				SPX Heat Transfer Inc. (Erstwhile Yuba Heat Transfer)	USA	A					
						GE	France	A					
						ABFPL	Sanand	A					
						BHI	S Korea	A					
						THERMAL ENGG INTERNATIONAL	USA	A					
						HOLTEC	USA	A					
32	LP Heaters (Sub QR Item)	I				L&T	Hazira	A					
						BHEL	Hyderabad	A					
						ISGEC	Yamunanagar	A					
						Godrej & Boyce Manufacturing Company Ltd.	Mumbai	A					
						TEMA India Ltd.,	Thane	A					
						TOSHIBA CORPORATION LTD	Japan	A					

Sr No		Item Description	Qp Inspection Category	Qp No	Qp submission SCH	Qp approval at SCH	Proposed Sub Supplier	Country	SS Approval Status	SS Detail Sub.SCH	SS Approval SCH	Remark	Package Applicable	Provenness Clause (Refer Note-I)
							THERMAL ENGG INTERNATIONAL	USA	A					
							BHEL	Hyderabad	A					
							L&T	Hazira	A					
							HOLTEC	USA	A					
33		Condensate Extraction Pump (CEP) (Sub QR Item)	I				KSB	Chinchwad, Pune	A					
							BHEL	Hyderabad	A					
							SULZER Pumps	Mumbai	A					
							Clyde Pumps India Pvt. Ltd	Ghaziabad	A					
34		Condenser Air Evacuation Pumps (Sub QR Item)	I				GARDNER Denver/Nash	Germany	A					
							GARDNER Denver/Nash	Pune	A					
							Tsurumi pumps	Japan	A					
							Edwards	UK	A					
35		Deaerator (Sub QR Item)	I				TIPS	Chennai	A					
							BHEL	Hyderabad	A					
							BGR	Chennai	A					
							Godrej	Mumbai	A					
36		Deaerator Fabricator	I				ISGEC	Yamunagar	A					
							Altech	Bhiwadi	A					
							TEMA India Ltd.,	Mumbai	A					
							BGR Energy System Ltd	Chennai	A					
							KSB	Germany	A					
							KSB	Pune	A					
37		Booster Pump	I				Sulzer Pumps	Mumbai	A					
							Sulzer	UK	A					
							Flowserve	Switzerland	A					
							FLOWERVE	Coimbatore	A					
							Flowserve	Spain	A					
							Hitachi	Japan	A					
							Ebara Corporation	Japan	A					
							MHI	Japan	A					
							BHEL	Hyderabad	A					
							Ebara Corporation	Japan	A					
							Flowserve	Spain	A					
							KSB	Germany	A					
38		Boiler Feed Pump (BFP) (Sub QR Item)	I				KSB	Pune	A					
							Mitsubishi Heavy Industry	Japan	A					
							HITACHI PLANT TECHNOLOGY	Japan	A					
							BHEL	Hyderabad	A					
							Sulzer Pumps	Mumbai	A					
							SULZER	UK	A					
							Siemens	Germany	A					
							Hitachi	Japan	A					
							GE Thermodyne	France	A					
40		Drive Turbine for BFP	I				GE India Industrial Pvt Ltd	Pune	A					
							Toshiba	Japan	A					
							TJPS	Chennai	A					
							Power machines(Kaluga)	Russia	A					
							BHEL	Hyderabad	A					
							MHI	Japan	A					
							Skoda	Czech republic	A					
41		HP Rawase Vases (Sub QR Item)	I				CCI	Sweden/ Switzerland/ Czech Republic	A					

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					CCI	Chittor,AP	A					
					Bomafa	Germany	A					
					Bomafa	Ahmedabad	A					
						Sweden/						
					CCI	Switzerland/						
42	LP Bypass Valves (Sub QR Item)	I				Czech Republic	A					
					CCI	Chittor,AP	A					
					BOMAF	Ahmedabad	A					
					BOMAF	Germany	A					
43	Condensor On-load Tube cleaning system (COLTCS) (Sub QR Item)	I			GEA BGR	Chennai	A					
					Multitex Filtration	Greater Noida	A					
44	Hydraulic Coupling for BFP	I			Voith	Hyderabad	A					
					Voith	Germany	A					
					Pipe Support	Chennai	A					
					Liseaga	Germany	A					
						Ahmedabad	A			Load upto to 100KN		
					Liseaga	S Korea	A					
					Seonghwa	UK	A					
					Pipe supports	Italy	A					
					GILLARDINI		A					
					BERJEN	Chittor,AP	A					
					NHK SPRUNG	Japan	A					
					Yamashita Seisakusho Co. Ltd	Japan	A					
					MHI	Japan	A					
45	Hangers & Supports; Pipe Support components including Spring Hangers	I			SANWA TEKKI CORPORATION	Japan	A					
					CARPENTER AND PETERSON	UK	A					
					CARPENTER & PATERSON INDIA PRIVATE LTD.	Vellore	A			CLH Upto 30 T AND VLH Upto 32 T		
					AAA Supports Private Limited	Vadodara	A			CLH Upto 23.8T & VLH Upto 20.7T		
										For CLH, VLH and Rigid supports Max. Load 1.5 MT		
					Carpenter & Patterson	USA/Thailand	A					
					Lonestar	Chennai	A			For size up to NB9200		
					Flexicon	Vadodara	A			For size upto 2200NB		
					Witzemann	Germany	A					
					Munro & Miller	UK	A					
					Flexatherm	Vadodara	A			For size upto 2200NB		
					Bird Precision	UK	A					
46	Metallic Expansion Joint	I			Metallic Bellows	Chennai	A			For size up to 1600 NB		
					M B Metallic Bellows	Chennai	A			For size upto 2200NB		
					Ahulya Bellows and Engineering Pvt. Ltd	Vadodara	A			For size up to NB 3400		
					HKR	S Korea	A					
					BHR	Germany	A					
					Seonghwa	S Korea	A					
					Finow	Germany	A					
					TOSHIBA	Japan	A					
47	HP Piping-Fabrication (Based on Design and Drawings of Qualified Vendor)	I			BHEL	Piping Center, Chennai & Thirunavayam	A					
					L&T	Hazira	A					
					Dee development	Balabgarh	A					
					Bendtec	USA	A					
					Wyman-Gordon	USA	A					
					Sumitomo	Japan	A					

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Sr No	Item Description	QP Inspection Category	QP No	QP submission at SCH	Proposed Sub Supplier	Country	SS Approval Status	SS Detail Sub.SCH	SS Approval SCH	Remark	Package Applicable	Provenness Clause (Refer Note-I)
48	HP Pipes and Fittings (Mills)	II			Tenaris	Italy	A					
					V&M	Germany	A					
					V&M	France	A					
					IBF	Italy	A					
					SUNGWANG BEND	S Korea	A			UP TO 24INCH IN CS/AS MATERIAL		
					Productos Tubulares	Spain	A					
					JFE	Japan	A					
					Bentler	Germany	A					
					TK CORPORATION	S Korea	A			UP TO 24INCH IN CS MATERIAL		
					TUBOS REUNIDOS	Spain	A					
49	Elastomer Large Bellows or Flexibles Rubber Bellows	I			MEGA	Italy	A			For Fittings Only		
					Petrol Raccord,	Italy	A			UP TO 24INCH IN CS MATERIAL & UP TO 18 INCH IN AS MATERIAL		
					Benkan Japan KK	Japan	A			UP TO 24INCH IN CS MATERIAL		
					Cort Engineers Pvt. Ltd.	Chennai	A			UP TO 2700 NB		
					SRM Ecoflex	Kolkata	A			UP TO 2700 NB		
					KSB	Germany	A					
					Nasosenergomash	Ukraine	A					
					Sulzer Pumps	Mumbai	A					
					KSB	Pune	A					
					Hyundai	S Korea	A					
50	Heater Drains Recovery Pumps (Drip Pump)	I			KBL	Pune	A					
					Flowserve	Coimbatore	A					
					GEA-BGR	Chennai	A					
					Multitex	Gr.Noida	A					
					Remi	Tarapur,India	A			SS		
					Apex	Alwar	A			SS (up to 150NB)		
					Ranamani	Ahmedabad	A			SS		
					ISMT	India	A			CS (up to 400 NB)		
					Maharashtra Seamless Ltd.	Maharashtra	A			CS (up to 400 NB)		
					Tube Products Incorporate	Ahmedabad	A					
52	LP Pipes & Fittings (CS & SS)	I			TK Corporation	S Korea	A					
					Dee development	Palwal	A					
					Jindal Saw	India	A			CS (up to 400 NB)		
					Tata	India	A			ERW		
					Surya	India	A			ERW		
					JINDAL PIPES LTD	India	A			ERW		
					WELSPUN	India	A			ERW		
					Lalit Pipes & pipes Ltd.,	Thane	A			ERW		
					Ratnamni Metals and Tubes Ltd.,	Gandhinagar	A			EFW Pipes		
					Fouress Engg. *	Bangalore	A			EFW Pipes		
53	Butterfly Valves (* Also for steam services)	I			IL *	Palakkad	A			upto 2600 NB		
					BHEL *	Bhopal, India	A			upto 2200 NB		
					Krioskar Bros. Ltd	Pune	A					
					L&T	Chennai	A					
					Trillium Flow	Hubli	A					
					Tyco	Halol	A					
					L&T	Coimbatore	A					
					Intervolve	Pune	A					
					L&T	Chennai/ Coimbatore	A					
					Velan	Canada/ Coimbatore	A					

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PACKAGE : EPC PACKAGE													
CONTRACTOR :													
CONTRACT NO :													
Sr No	Item Description	QP Inspection Category	QP No	QP submission at SCH	QP approval at SCH	Proposed Sub Supplier	Country	SS Approval Status	SS Detail Sub.SCH	SS Approval SCH	Remark	Package Applicable	Provenness Clause (Refer Note-I)
54	Valves (gate/ globe/check) for LP application	I				KSB	Germany/Comablore	A					
						ToA	Japan	A					
						Fouress Engg	Aurangabad	A					
						Trillium Flow	Hubli	A					
						Crane	USA	A					
						Sanshin	S Korea	A					
						KBL	Pune	A					
						Weir	UK	A					
						Leader	Jalandhar	A					
						BHEL	Trichy	A					
						Pentair (Tyco Sempell)	Trichy	A					
						HP Valves(Key Valves Technology)	Netherlands	A					
						IL	Palakkad	A					
						Steel Strong	Mumbai	A					
55	HP Feedwater Heaters Automatic (String Bypass) Isolation Valves	I				KSB	Germany	A					
						Tyco Sempell	Germany	A					
						Strack	Germany	A					
						BHEL	Trichy	A					
						Weir Valves & Controls UK Ltd	UK	A					
						KSB	Germany (Comablore)	A					
56	Water Steam Cycle HP Valves	I				L&T	Chennai	A					
						L&T	Comablore	A					
						Velan	Comablore	A					
						HP Valves	Netherlands	A					
						Weir Valves & Controls UK Ltd	UK	A					
						BHEL	Trichy	A					
						Crane	USA	A					
						Sanshin	S Korea	A					
						Pentair(Tyco Sempell)	Germany	A					
						Velan	Canada	A					
						ToA	Japan	A					
						Tyco	USA	A					
						BHEL	Trichy	A					
						Dresser	USA	A					
57	Safety Valves	I				Tyco	USA	A					
						Babcock	Spain	A					
						Flanger	Germany	A					
						Boop & Reuther	Germany	A					
						Flanger	Nasik	A					
						Reineke	Germany	A					
						Valve Technology	USA	A					
						KSB	Comablore	A					
						Leader	Jalandhar	A					
						L&T	Chennai	A					
58	Forged Steel Valves up to 2" , Class 800 (FCS/FSS)	I				Velan	Canada	A					
						Fouress Engg	Ahmadnagar	A					
						Trillium Flow	Hubli	A					
						Velan	Canada	A					
						Steel Strong	Mumbai	A					
						L&T	Comablore	A					
						Plymouth	USA	A					

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59	Condenser Tubes	I				Ramamani	Kutchh	A							
						Neotiss Limited	Medak,AP	A			Remarks: Formerly Vallourec Heat exchanger Tubes Ltd/ CST Valinox Ltd				
						REMI Edelstahl Tubulars Ltd	Tarapur	A							
						Shin han Metal	S Korea	A							
						Valtimat	France	A							
60	HP/LP Heater tubes	I				Nippon Steel Corp.	Japan	A							
						Ramadeep Metal & Tubes Ltd	Mehsana	A							
						Maxim Tubes	Gandhinagar	A							
						Scholler Werke GmbH	Germany	A							
						Plymouth	USA	A							
						Ramamani	Kutchh	A							
						Ramamani	Mehsana	A							
						Valtimat	France	A							
						Nippon Steel Corp.	Japan	A							
						Scholler Werke	Germany	A							
61	Hydrogen Generation Plant (Sub-QR Item)	I				Heavy Metals and Tubes	Gandhinagar	A							
						Shin han Metal	S Korea	A			LP Heater				
						Apex	Alwar	A			LP Heater				
						Ramadeep Metal & Tubes Ltd	Mehsana	A			LP Heater				
						REMI Edelstahl Tubulars Ltd	Tarapur	A							
						Neotiss Limited	Medak,AP	A			Remarks: Formerly Vallourec Heat exchanger Tubes Ltd/ CST Valinox Ltd				
						Proton Energy Systems	USA	A							
						MVS ENGINEERING LIMITED	New Delhi	A			Bi-polar type, 2x6NM3/Hr				
						SUKAN ENGG. PVT. LTD	Mumbai	A			Bi-polar type, 2x6NM3/Hr				
						Eastern Electrolyzer Limited	Noida	A			Bi-polar type, 2x6NM3/Hr				
	Main Contractor Approved Sources(Note-3)					Teledyne Energy System Inc.	USA	A							
						AIROX NIGEN	Ahmedabad	A			Bi-polar type, 2x6NM3/Hr				
						EQUIPMENTS LTD									
						Electrolyser Corporation	Canada	A							
						BOC	Kolkata	A							
			1	Turbine Bearing Pedestal	I				Main Contractor Approved Sources						
			2	Chemical Dosing System	I				Main Contractor Approved Sources						
			3	Vapour Exhauster With Motor	II				Main Contractor Approved Sources						
			4	Drain Cooler & Misc Tanks	II				Main Contractor Approved Sources						
			5	Oxygen/NAOH Dosing System	II				Main Contractor Approved Sources						
6	Misc Items like Internals of equipments(if not covered in MQP) & Consumables like paints, gaskets etc.	III				Main Contractor Approved Sources									
NOTE - 1 : For final Sub-QR approval , document required to be submitted as per Sub-QR requirements given in the specification.															
NOTE-2: Vendors under 'A' are approved and accepted by NTPC with/without conditions in the past. Similar conditions as the case may be for the vendor shall be applicable for this project and tied up in the quality plan.															
NOTE-3: Main contractor approved sub vendors evaluated / assessed as per Main contractor Quality Management System is acceptable.															
Note-4: The items not covered in the above list shall be mutually discussed & agreed for item categorisation & sub-vendor control.															
LEGENDS/ संकेतिका															
* - Inspection category will be decided during vendor evaluation.															
1.0 SYSTEM SUPPLIER / SUB SUPPLIER APPROVAL STATUS CATEGORY प्रणाली आपूर्तिकर्ता / सब-वैण्डर की स्वीकृति की श्रेणी															
A – For these items proposed vendor is acceptable to NTPC. To be indicated with letter "A" in the list along with the condition of approval. If any / इन मदों के लिए प्रस्तावित वैण्डर एनटीपीसी को स्वीकार्य है। अनुमोदन की शर्त , यदि कोई हो, के साथ-साथ पत्र "A" में सूचित किया जाए।															

 एनटीपीसी NTPC एनपीसी		PROJECT : KODERMA-II (2X800MW)					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL					REVISION NO : 00	
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		CONTRACT NO :										SUB SECTION: QA-TG(MECH)	
Sr No	Item Description	QP Inspection Category	QP No	QP submission at SCH	QP approval at SCH	Proposed Sub Supplier	Country	SS Approval_Status	SS Detail Sub.SCH	SS Approval SCH	Remark	Package Applicable	Provenness Clause (Refer Note-I)
2.0 QP INSPECTION CATEGORY : क्यूपी / निरीक्षण की श्रेणी:													
CAT - I : For those items the Quality Plans are approved by Customer and final acceptance will be on physical inspection witness by Customer.इन मदों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है और एनटीपीसी द्वारा अंतिम स्वीकृति भौतिक निरीक्षण के दौरान उपलब्ध गवाह के आधार पर दी जाएगी।													
CAT - II : For those items the Quality Plans are approved by Customer. However no physical inspection shall be done by Customer. The final acceptance by Customer shall be on the basis of review of documents. इन मदों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है। हालांकि एनटीपीसी द्वारा कोई भौतिक निरीक्षण नहीं किया जाएगा। एनटीपीसी द्वारा अंतिम स्वीकृति अनुमोदित क्यूपी के अनुसार दस्तावेजों की समीक्षा के आधार पर दी जाएगी।													
CAT - III : For these items Quality control to be exercised as per Main contractor Quality Assurance System. The final acceptance by NTPC shall be on the basis of Certificate of Conformance (COC) by Main Contractor.													
UNITS/WORKS : Place of manufacturing- Place of main supplier of multi units/works.													



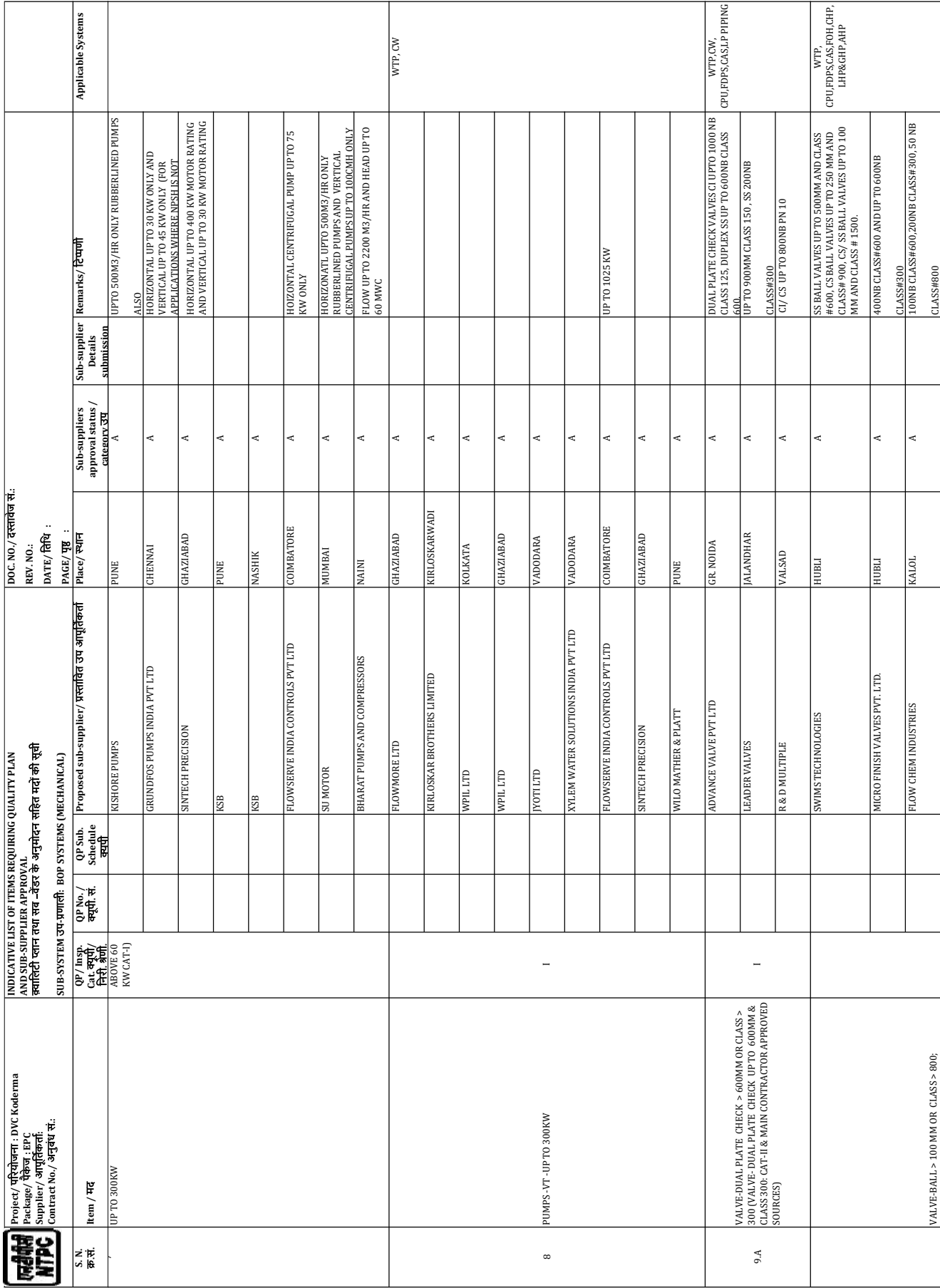
Project/ परियोजना : DVC,Koderma Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:				INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL बतावाती प्लान तथा सब-सप्लायर के अनुमोदन सहित नमों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :				Applicable Systems
S. N. क्र.सं.	Item / मद	QP / Insp. Cat. क्र.सं./ निरी. श्रेणी.	QP No. / क्र.सं. सं.	QP Sub. Schedule विवरण	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/ स्थान	Sub-supplier's approval status / category सं.	Sub-supplier Details submission	Remarks/ टिप्पणी			
1	AIR BLOWERS -LOBE TYPE > = 5KW	I			SWAM PNEUMATIC	NODA	A		UP TO 40 HP (APPROX 1600 CUM/HR)	WTP,CPLAHP		
					EVEREST BLOWERS PVT LTD	BAHADURGARH	A		UP TO 4800 CUM/HR			
					KAY INTERNATIONAL	SONEPAT	A		UP TO 2500CUM/HR			
					KULKARNI POWER TOOLS	SHIROL	A		UP TO 60 HP (APPROX 2000CUM/HR)			
					USHA COMPRESSORS	AHMEDABAD	A					
2.A	EOT CRANE & ELECTRIC HOIST >5 MT	I (> 10T) / III (>5T UP TO 10T)			REVA INDUSTRIES	FARIDABAD	A		UP TO 60 MT	WTP,CTAC&VENTILATI ON,CHPLHP&GHP,AHP, CW , FDPS		
					EDDY CRANE	PUNE	A		UPTO 10 MT			
					CONSOLIDATED HOIST	SATARA / PUNE *	A		SATARA UP TO 20 MT,*PUNE FOR ELECTRIC HOIST UPTO 15 MT			
					ELECTROTHERAPHY	RISHRA	A		UPTO 15 MT FOR ELECTRIC HOIST ONLY			
					HERCULES HOIST	RAIGAD	A		UPTO 15 MT FOR ELECTRIC HOIST ONLY			
					TUBRO FERCUSSON	KOLKATA	A		UP TO 20MT FOR EOT, UP TO 5 MT FOR FOR ELECTRIC HOIST			
					PRAYAS ENGG (PBL)	V V NAGAR	A		UPTO 10 MT FOR ELECTRIC HOIST ONLY			
					ALPHA SERVICES	ALWAR	A		SINGLE GIRDER EOT CRANE & ELECTRIC HOIST UPTO 15 MT ONLY, GEARBOX FROM NTPC APPROVED SOURCES FOR EOT CRANE.			
					CENTURY CRANE ENGINEERS PVT. LTD	BALLABHGARH	A		UP TO 25 MT			
					ARMSEL	BANGALORE	A		UPTO 10 MT EOT & UPTO 15 MT ELECTRIC HOIST			
2.B	GANTRY CRANE >5T	I (> 10T) / III (>5T UP TO 10T)			TRACTEL TIRFOR	PALWAL	A		UPTO 15 MT FOR ELECTRIC HOIST AND UPTO 10 MT FOR EOT	CW		
					MILLARS INDIA	KARAMSAD	A		UP TO 25 MT			
					AVON CRANES	GURGAON	A		UP TO 25 MT			
					GRIP ENGINEERS	HYDERABAD	A		50 MT (GEARBOX FROM NTPC APPROVED SOURCES FOR EOT CRANE).			
					GRIP ENGINEERS	FARIDABAD	A		UPTO 20 MT ELECTRIC HOIST ONLY			
					CRANEX	GHAZIABAD	A		UP TO 140 MT FOR EOT ONLY			
					REVA INDUSTRIES	FARIDABAD	A		UP TO 60 MT			
					UNIQUE INDUSTRIAL HANDLERS PVT LTD	NASHIK	A		UP TO 165 MT			
					ANUPAM INDUSTRIES LTD.	ANAND	A		UP TO 60MT			



S. N. क्र.सं.		Item / मद	Project/ परियोजना : DVC Koderna Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:	INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL बतावाती प्लान तथा सब-सप्लायर के अनुमोदन सहित मर्च की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)	DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :	Sub-suppliers approval status / category उप	Sub-supplier Details submission	Remarks/ टिप्पणी	Applicable Systems		
3	FAN- AXIAL TYPE >= 5KW	I		QP / Insp. Cat. सूची/ निरी. श्रेणी	QP No./ सूची सं.	QP Sub. Schedule सूची	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	THANE	A	UP TO 60MT	WTP,CT,AG&VENTILATI ON,CHP,LHP&GHP,AHP
								MANGLA HOIST	A	UP TO 10MT	
								CB DOCTOR VENTILATOR PVT LTD	A	up to 50000 CMH	
								HOWDEN SOLVYENT FLAKT INDIA PVT LTD,	A	up to 125000 CMH	
								C DOCTOR & CO PVT LTD	A	up to 50000 CMH	
								KRUGER VENTILATION INDUSTRIES (I) PVT LTD	A	Up to 6000 CMH	
								NADI AIRTECHNICS PVT LTD	A	Up to 15000 CMH	
								ADVANCE VENTILATION PVT LTD	A	up to 40000 CMH	
								SK SYSTEMS PVT LTD	A	up to 50000 CMH	
								Patel Airflow	A	up to 40000 CMH	
								ALMONAROD (P) LIMITED	A	Up to 14000 CMH	
								STEEL AUTHORITY OF INDIA LIMITED	A		
4	PIPES-MS- (BLACK/ GI) AS PER IS:3589 >1000NB	I						ANJAR	A	SAW UPTO 2600 NB	CW,CT,MUW
								BHARUCH	A	SAW UPTO 1300 NB	
								MAN INDUSTRIES	A	SAW UPTO 1400 NB	
								SAMSHI	A	SAW 450 TO 2540 NB	
								MUKAT TANKS & VESSELS	A	SAW 200 TO 1200 NB	
								MUKAT PIPES	A	SAW UPTO 1800 NB	
								LALIT PIPES AND PIPES LTD	A	SAW 350 TO 1400 NB	
								RATNAMANI	A	SAW 600 TO 2600 NB	
								RATNAMANI	A	SAW 400 TO 3600 NB	
								PSL HOLDINGS LIMITED	A	SAW 450 TO 1600 NB	
								PSL INTERNATIONAL LTD.	A	SAW 450 TO 1600 NB	
								PSL LIMITED	A	SAW 450 TO 1600 NB	



Project/ परियोजना : DVC Koderma Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:			INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL बतावाती प्लान तथा सब-सप्लायर के अनुमोदन सहित मर्च की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)			DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :			Applicable Systems	
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5	PIPES & FITTINGS-GRP	I			PSL LIMITED	VISAKHAPATNAM	A		SAW 450 TO 1600 NB	WTP,CT
					JCO PIPES	CHHINDWARA	A		SAW UPTO 1600 NB	
					SURYA GLOBAL STEEL TUBE LTD	ANJAR	A		SAW UP TO 2032 OD	
					JINDAL SAW LTD	BELLARY	A		SAW UP TO 3632 OD , THICKNESS 16 MM	
					CAPACITE STRUOURES PVT LTD	THANE	A		406.4 MM TO 3874 MM OD	
6	SERVICE VESSEL-CPU & OTHER PR VESSELS >= 10 BAR WORKING PRESSURE	I			EPP COMPOSITES PVT LTD	RAJKOT	A		UP TO 900MM	WTP,CPU,CAS,CHIP, LHP&GHP,AHP
					GRAPHITE INDIA	NASIK	A		UP TO 1000MM	
					SHIRAM SEPL COMPOSITES LTD	CHENNAI	A		UP TO 1100MM	
					BALAJI FIBER REINFORCE PVT LIMITED	VADODARA	A		UP TO 650MM	
					MEGHA FIBRE GLASS INDUSTRIES PVT LTD	MEDAK	A		UP TO 900MM	
7	PUMPS- HORIZONTAL & VERTICAL CENTRIFUGAL - CAT-II.	(UP TO 60 KW CAT-II.)			DRIPLEX WATER ENGINEERING INTERNATIONAL PVT LIMITED	BHADARBAD	A		UPTO 3000MM DIA & THICKNESS UPTO 28 MM	WTP,CW, CPU,FDPS,CHIP, LHP &GHP,AC & VENTILATION,MUW, AHP
					BGR ENERGY SYSTEMS LTD (ENVIRONMENTAL ENGG. DIV.)	PONNERI	A		UPTO 2900 MM DIA & THICKNESS UPTO 28 MM	
					ISHAN EQUIPMENTS PRIVATE LIMITED	VADODARA	A		DIA 2800MM, THICKNESS 25MM DESIGN PRESSURE UPTO 47.5 KSC	
					JASMINO POLYMERTECH PVT LTD	TALOJA	A		DIA UP TO 2900 MM , THICKNESS UPTO 29 MM	
					MAHIMA UDYOG	HARIDWAR	A		UPTO 3200MM DIA & THICKNESS UPTO 30 MM	
					BELCO POLLUTION CONTROL PVT LTD	GREATER NOIDA	A			
					KIRLOSKAR BROTHERS LTD	KIRLOSKARWADI	A			
					WILO MATHER & PLATT	PUNE	A			
					WILO MATHER & PLATT	KOLHAPUR	A			
					SAM TURBO	COIMBATORE	A		FLOW UP TO 1500 CUM/HR AND POWER RATING UP TO 425 KW	
					FLOWMORE LTD	GHAZIABAD	A			
					BEST AND CROMPTON	CHENNAI	A			
					JYOTI LTD	VADODARA	A			
					WPIL	GHAZIABAD	A			



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					L&T VALVES LIMITED	COMBATORE	A		650 MM CLASS 600, 50 NB CLASS 800.	
					SWIMS TECHNOLOGIES	HUBLI	A		CONVENTIONAL CCS GATE / GLOBE / CHECK VALVES UP TO 600MM AND CLASS # 1500, CCS GATE/ GLOBE/ CHECK VALVES UP TO 200MM UP TO 300NB PN10	
					CRANE PROCESS FLOW	SATARA	A			
9.E	VALVE- DIAPHRAGM TYPE	I			SWIMS TECHNOLOGIES	HUBLI	A		UPTO 250 NB - PN 10, 350MM PN6	WTP,CPU
					PROCON ENGINEERS	MUMBAI	A		UPTO 200 NB AND PN 10/CLASS #150	
					SWIMS TECHNOLOGIES	HUBLI	A		SOFT SEATED 400MM AND CLASS # 150, 300NB CLASS#300	WTP,CPU,CHP, LHP&GHP, FOH,AHP
9.F	VALVE-PLUG > 100 MM OR CLASS > 800(VALVE-PLUG UP TO 100 MM & CLASS 800-CAT-II & MAIN CONTRACTOR APPROVED SOURCES)	I			XOMOX SANMAR	TRICHY	A		UP TO 600MM AND CLASS#300	
					FLOWSERVE INDIA CONTROLS	CHENNAI	A		METALLIC SEATED 400NB CLASS#150, 300NB CLASS # 300, 50NB CLASS #800	
					KSB	NASHIK	A		130 KW	WTP,CT, CPU,CHP, LHP&GHP, FOH,AHP,L.P PIPING,FDPS
10	PUMP- SUBMERSIBLES-> 30KW	I			KIRLOSKAR BROTHERS LTD	KIRLOSKARWADI	A			
					AQUA MACHINERY	AHMEDABAD	A		UP TO 235 KW	
					WPIL	GHAZIABAD	A			
					CORI ENGINEERS PVT LTD	CHENNAI	A		UPTO 2800 MM	ACW, ECW, CW,CT
11	RUBBER EXPANSION JOINT>=1600NB (RUBBER EXPANSION JOINT < 1600NB; CAT-II & MAIN CONTRACTOR APPROVED SOURCES)	I			SRM EXOILEX PVT LTD	KOLKATA	A		UPTO 2800 MM	
					PAHARPUR COOLING TOWERS LTD	SAHIBABAD	A		WITH SOLID FAN BLADES 288" AND 336" DIA, WITH FOAM CORED FAN BLADES WITH 10 METERS AND 10.97 METERS	CT
					PAHARPUR COOLING TOWERS LTD	BHASA	A		60" TO 288" FAN DIA	
					PAHARPUR COOLING TOWERS LTD	KOLKATA	A		60" TO 288" FAN DIA	
12	FAN ASSEMBLY-COOLING TOWER	I			M/s MAYA FANS AIR ENGG PVT LTD.	DEWAS	A		UP TO 11 METER FAN DIA	
					AMALGAMATED INDUSTRIAL COMPOSITES PVT LTD	NASHIK	A		UP TO 11 METER FAN DIA	
					PAHARPUR COOLING TOWERS LTD	SAHIBABAD	A			CT
					PAHARPUR COOLING TOWERS LTD	KOLKATA	A			
					NEW ALLENBERRY WORKS	KOLKATA	A			
13	GEAR BOX -COOLING TOWER	I			ELECON ENGINEERING	VALLABH	A			
					PREMIUM ENERGY TRANSMISSION LTD.	VIDYANAGAR	A			
						PALTA	A			



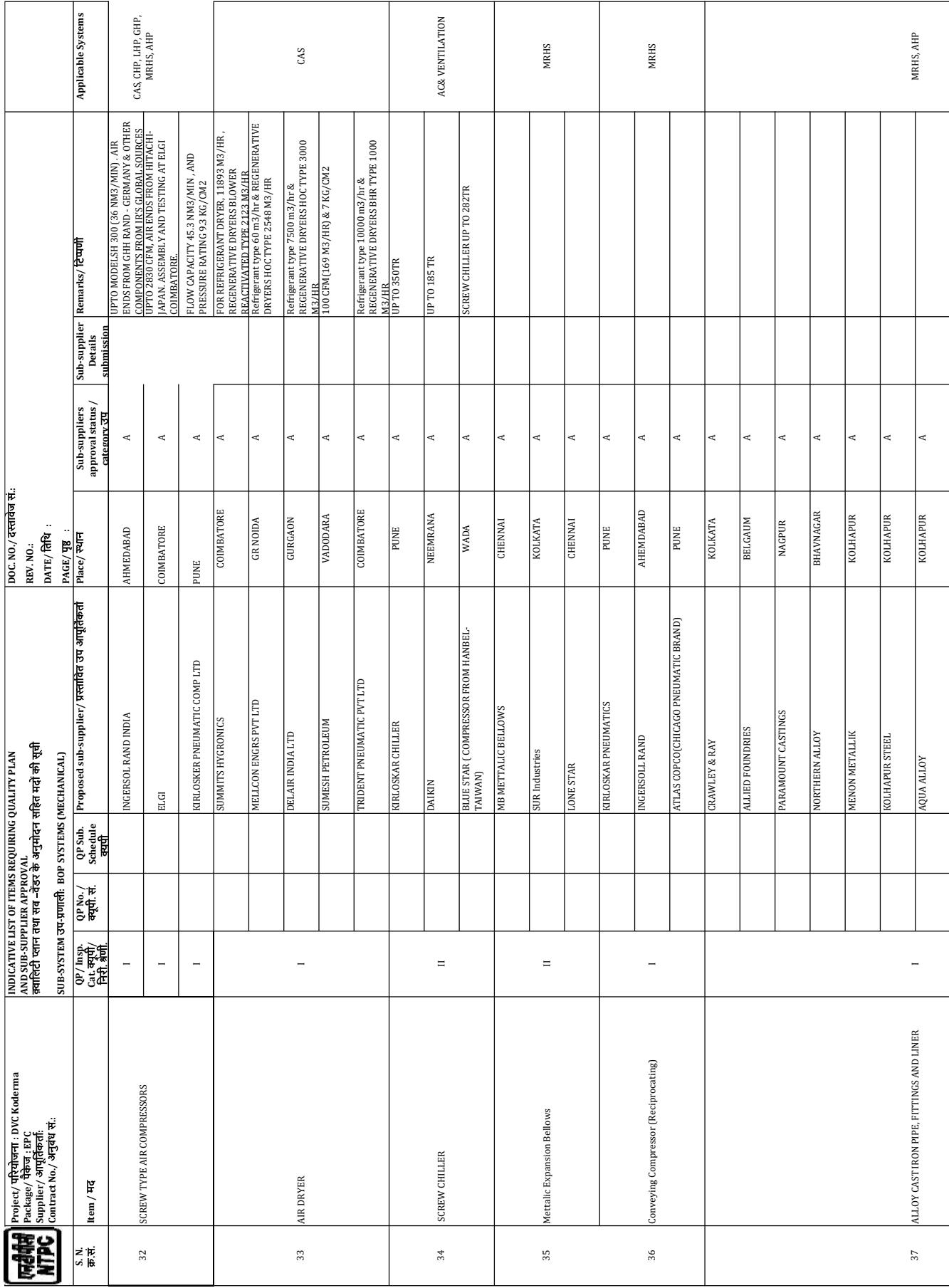
Project/ परियोजना : DVC Koderma Package/ पैकेज : IPC Supplier/ आपूर्तिकर्ता : Contract No./ अनुबंध सं.:	INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL बतावांटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मर्च की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)					DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :				Applicable Systems
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14	DRIVE SHAFT-CARBON FIBRE-COOLING TOWER	II			M/S EUROFLEX TRANSMISSION (INDIA) PVT LTD	HYDERABAD	A			CT
					PAHARPUR COOLING TOWERS LTD	SAHIBABAD	A			
					M/s AMALGAMATED INDUSTRIAL COMPOSITES PVT LTD	NASHIK	A			
					NORTH STREET COOLING TOWERS	GHAZIABAD	A			
15	DRIVE SHAFT SS-COOLING TOWER	II			PAHARPUR COOLING TOWERS LTD	SAHIBABAD	A			CT
					PAHARPUR COOLING TOWERS LTD	KOLKATA	A			
					NORTH STREET COOLING TOWER	GHAZIABAD	A			
					KIRLOSKAR BROTHER'S LIMITED	KIRLOSKARWADI	A			
16	PUMP-CW PUMP	I			WPIL LTD	KOLKATA	A		BOTH CV & VT TYPE	CW
					FLOWERVE INDIA CONTROLS PVT LTD	COIMBATORE	A		BOTH CV & VT TYPE	
					FLOWMORE LTD	GHAZIABAD	A		CV TYPE ONLY	
					XYLEM WATER SOLUTIONS INDIA PVT LTD	VADODARA	A		VT TYPE ONLY	
					JYOTI LTD	VADODARA	A		VT TYPE ONLY	
					BOSCH REXROTH (INDIA) PVT LTD	SANAND	A		VT TYPE ONLY.	
17	ELECTRO HYDRAULIC ACTUATOR FOR CW PUMP DISCHARGE BUTTERFLY VALVE	I			HYDAC (INDIA) PVT. LTD	COIMBATORE	A		HYDRAULIC POWER PACK AND HYDRAULIC CYLINDER (320 MMM BORE DIA) , ACCUMULATOR FORM OLAYER (21/L.C. KIADB.	CW
					ISGEC	MUZAFER NAGAR	A		COIMBATORE. HYDRAULIC CYLINDER -HYDAC BANGLORE.ACCUMULATOR.HYDAC FINISHED CASTING UP TO 4.0 MT APPROX	
18	IMPELLER CASTING - CW PUMP	II			THE KOLHAPUR STEEL LTD.	KOLHAPUR	A		FINISHED CASTING UP TO 4.0 MT APPROX	CW
					WESTERN PRECICAST PVT LTD	SANGLI	A		FINISHED CASTING UP TO 3.5 MT APPROX	
					HINDUSTAN UDYOG LIMITED	NAGPUR	A		FINISHED CASTING UP TO 3.0 MT APPROX	
					HI-MET CORPORATION	S.KOREA	A		FINISHED CASTING UP TO 3.0 MT APPROX	
					TULIP CASTING	KOHLAPUR	A		WEIGHT UPTO 3.0 MT , DIA 1600 MM	
					MATHER FOUNDARY LTD	UK	A		FINISHED CASTING UP TO 3.6 MT APPROX	
					GORADIA SPECIAL STEELS LTD	KHAPOLI	A			
19	SHAFT-FORGING- CW PUMP	II			BHARAT FORGE	PUNE	A			CW



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					CFFP,BHEL	HARDWAR	A		UP TO DIAMETER 290MM AND LENGTH APPROX. 3000MM, GRADE SS410		
20	THRUST BEARING FOR CW PUMP	I			MICHEL	BANGLORE	A			CW	
					KMP	GREATER NOIDA	A				
21	DELUGE VALVE WITH TRIMS	I			HD FIRE	THANE/ALGAON	A			FDPs	
					CARRIER	GURGAON	A		FOR PISTON TYPE DELUGE VALVE ONLY		
22	INERT GAS EXTINGUISHING SYSTEM	II			ANSUL	USA	A			FDPs	
					KIDDE (GINGEKERR)	UK	A				
					NAFFCO	UAE	A				
					MINIMAX GmbH & Co. KG	GERMANY	A				
					TOTAL WALTHER	GERMANY	A				
					NOHMI BOSAI	JAPAN	A				
23	ALARM VALVE WITH TRIMS	II			HD FIRE	THANE	A			FDPs	
					HD FIRE	JALGAON	A				
24	FOAM SYSTEM(BLADDER TYPE)	I			HD FIRE	JALGAON	A			FDPs	
					FIRETECH	RATNAGIRI	A				
					WADIA BODY BUILDERS	AHEMDABAD	A			FDPs	
					AAREL INDUSTRIES	INDORE	A				
25	FIRE TENDER	I			AMBALA COACH	AMBALA	A				
					VIJAY FIRE	UMBERGAON	A				
					MARATHON ELECTRIC MOTOR(I) LTD	KOLKATA	A		UP TO 50000 CMH	AC& VENTILATION, CHP, LHP&GHP,AHP	
					HOWDEN SOLYVENT FLAKT INDIA PVT LTD,	CHENNAI	A		UP TO 200000 CMH		
					ALMONAROD (P) LIMITED	CHENNAI	A		UP TO 60000 CMH		
					PATEL AIRFLOW	VATWA, AHMEDABAD	A		UP TO 250000 CMH		
					CB DOCTOR VENTILATOR PVT LTD	AHMEDABAD	A		UP TO 150000 CMH		

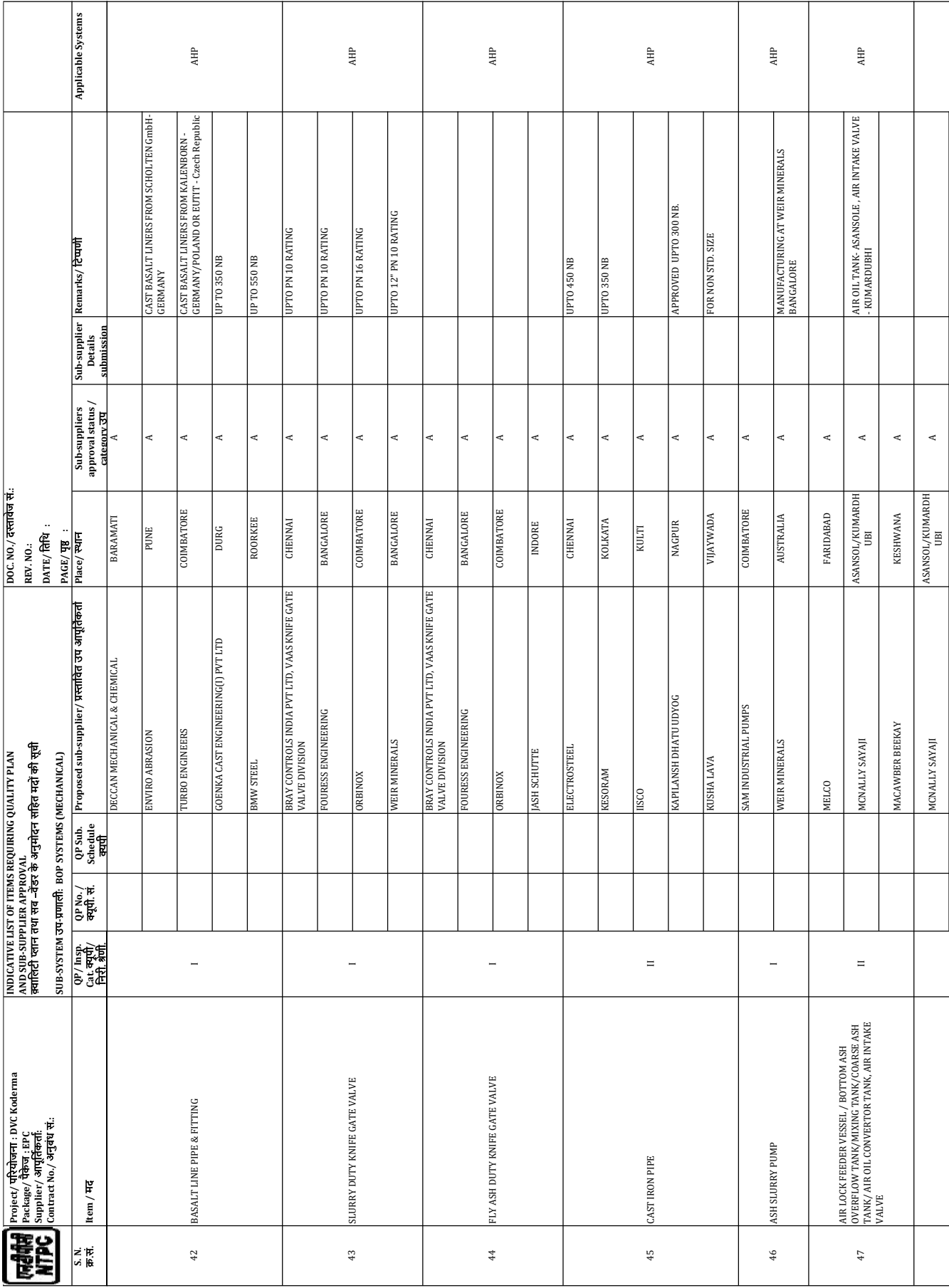


S. N. क्र.सं.		Project/ परियोजना : DVC Koderma Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:	INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क़्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मयों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :				Applicable Systems																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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26	CENTRIFUGAL FAN (± 5KW) MOTOR FROM NTPC ACCEPTED SOURCE	I			WOLTER VENTILATORS INDIA (P) LTD	BHIWADI,	A		UP TO 200000 CMH																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					C.DOCTOR & CO PVT LTD	KOLKATA	A		UP TO 250000 CMH																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					SUVIDHA AIR ENGINEERS	AHMEDABAD	A		UP TO 190000 CMH																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					SUBURBAN INDUSTRIAL WORKS PVT. LTD	KOLKATA	A		UP TO 100000 CMH																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					KRUGER VENTILATION INDUSTRIES (I) PVT LTD	THANE	A		UP TO 90000 CMH																																																																																																																																																																																																																																																																																																																																																																																																																																																						
27	DIESEL ENGINE	I			SOLYVENT FLAKT	KOLKATA	A		UP TO 200000 CMH																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					ADVANCE VENTILATION PVT LTD	SONEPAT	A		UP TO 250000 CMH																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					SK SYSTEMS PVT LTD	SONEPAT	A		UP TO 250000 CMH																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					CUMMINS	PUNE	A		Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up to 2000 KVA	Up 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38	DRY ASH UNLOADING CHUTE	I			MARTO PEARL	HYDERABAD	A				
					R.R.L	HOWRAH	A				
					CONCAST ENGINEERING	BURDWAN, WB	A				
					NATRAJ IRON & CASTINGS	DHANBAD	A				
					ABHIPRIYA BUSINESS	PANT NAGAR	A				
					MELCO	FARIDABAD	A				
					MACAWBER BEEKAY	KESHWANA	A				
					MINING AND MATERIAL HANDLING EQUIPMENT	KOLKATA	A				
					DCL	HYDERABAD	A				
					FLAKT	KOLKATA	A				
39	BAG FILTER / SILO VENT FILTER	II			ORIENT FANS (AGCO)	KOLKATA	A				
					THERMAX	PUNE	A				
					RIECO	PUNE	A				
					MELCO	FARIDABAD	A				
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A				
					MACAWBER BEEKAY	KESHWANA	A				
					TAP ENGINEERING	KANCHEEPURAM	A				
					SUMMITS HYGRONICS	COIMBATORE	A		Upto 11893 m3/hr		
					TRIDENT	COIMBATORE	A		Upto 10000 m3/hr		
					MELLCON	GREATER NOIDA	A		Upto 7250 m3/hr		
40	REFRIGERANT TYPE DRYER	I			DELAIR	GURGAON	A		Upto 7500 m3/hr		
					ATLAS COPCO	BELGIUM	A		Upto model FD 1200. ASSEMBLY AND TESTING AT PUNE		
					KAKATI KARSHAK	HYDERABAD	A				
					AEROMATIC	AHEMDABAD	A		Size Upto 200 MM. Capacity 3924 m3/hr		
41	VACUUM PUMP [WATER SEAL RING TYPE]	I									





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48	BOTTOM ASH HOPPER / BUFFER HOPPER/DUST COLLECTOR	I			MELCO	FARIDABAD	A		ONLY FOR BUFFER HOPPER AND DUST COLLECTOR	AHP	
49	CLINKER GRINDER	I			MACAWBER BEEKAY	KESHWANA	A			AHP	
					MELCO	FARIDABAD	A				
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A				
					L&T	KANSBAHAL	A				
					MACAWBER BEEKAY	KESHWANA	A				
50	FLY ASH HOPPER/VALVE/ASH INTAKE VALVE/FLY ASH DIFFUSER / DRIVE ARRANGEMENT FOR CLINKER GRINDER	II			MELCO	FARIDABAD	A			AHP	
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A				
					L&T	KANSBAHAL	A				
					MACAWBER BEEKAY	KESHWANA	A				
51	FLUIDIZING PAD / FLUSHING APPARATUS	I			MELCO	FARIDABAD	A			AHP	
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A				
					L&T	KANSBAHAL	A				
					MACAWBER BEEKAY	KESHWANA	A				
52	FLY ASH STORAGE SILO/HCSO SILO	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP	
					MACAWBER BEEKAY	KESHWANA	A				
53	FEED SUMP / VACUUM BREAKER	I			MELCO	FARIDABAD	A			AHP	
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A				
					MACAWBER BEEKAY	KESHWANA	A				
					MELCO	FARIDABAD	A				
54	FLY ASH HEADER VALVE/BRANCH HEADER VALVE / AIR INTAKE VALVE /EQUALISING VALVE /PLUG GATE FOR SUMP/ISOLATION	I			MCNALLY SAYAJI	KUMARDHUBI	A			AHP	
					L&T	KANSBAHAL	A				
					MACAWBER BEEKAY	KESHWANA	A				
					MELCO	FARIDABAD	A				



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55	HYDROMIX DUST CONDITIONER/ROTARY FEEDER	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
					L&T	KANSBAHAL	A			
					EXPONENTIAL ENGINEERING	PUNE	A			
					MELCO	FARIDABAD	A		JET PUMP / JETTING NOZZLE	
56	JET PUMP / JETTING NOZZLE	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A		JET PUMP / JETTING NOZZLE	AHP
					L&T	KANSBAHAL	A		JET PUMP	
					MACAWBER BEEKAY	KESHWANA	A		JET PUMP / JETTING NOZZLE	
					MELCO	FARIDABAD	A			
57	COLLECTOR TANK / AIR WASHER / WETTING HEAD / SURGE / SETTLING TANK	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
					MELCO	FARIDABAD	A			
58	PLATE VALVE AT DYKE END	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
					DELAIR	GURGAON	A			
					INDCON	DELHI	A			
59	DESSICANT TYPE AIR DRYER	I			MELCON	GREATER NOIDA	A			AHP
					SUMMIT'S HYGRONICS	COIMBATORE	A			
					TRIDENT	COIMBATORE	A			
					MCNALLY	KUMARDHUBI / ASAN	A			
					L&T	KANCHEEPURAM	A			
					THYSSENKRUPP	PUNE	A			
					ELECON	V V NAGAR	A			
60	STACKER RECLAIMER & RECLAIMER	I			TRF	JAMSHEDPUR	A			CHP

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					SANDVIK	PUNE	A			
					PROMAC	BANGALORE	A			
					THYSSENKRUPP	HYDERABAD	A		* Hyderabad works approved for some of assemblies for Stacker Reclaimer - Counter Weight Boom, Box and Bucket Wheel Head & Tail part, Tripper Structure	
					ELECON	V V NAGAR	A			
					FAMAK S.A. (IN ASSOCIATION WITH MBE-ASANSOL)	POLAND	A			
					L & T	KANSAHAL	A			
					THYSSENKRUPP	PUNE	A			
					TRF	JAMSHEDPUR	A			
					PROMAC	BANGALORE	A			
61	WAGON TIPPLER & SIDE ARM CHARGER	I			THYSSENKRUPP	HYDERABAD	A		UPTO 2400 TPH	CHP
					L&T	KANSAHAL	A		UPTO 2200 TPH	
					ELECON	V V NAGAR	A		UPTO 2200 TPH	
					TRF	JAMSHEDPUR	A		UPTO 2400 TPH Extended Warranty of 3 years over & above of contractual warranty on parts other than the	CHP
					MCNALLY SAYAJI	KUMARDHUBI	A		UPTO 2200 TPH	
					PENNSYLVANIA CRUSHER CORPORATION	USA	A		UP TO 1760 TPH	
					AMERICAN PULVERISER	USA	A		UPTO 1875 TPH	
					THYSSENKRUPP	PUNE	A		UP TO 2035 TPH	
					TRF	JAMSHEDPUR	A		UP TO 1800 TPH TRF shall give extended warranty of 5 years over & above Contractual Warranty	CHP
					L&T	KANSAHAL	A		UP TO 1600 TPH	
					ELECON	V V NAGAR	A		UP TO 1320 TPH	
					MCNALLY SAYAJI	KUMARDHUBI	A		UPTO 1000 TPH	
					TECHNO VIBRAZIONI	ITALY	A		UPTO 1875 TPH	
					ELECON	V V NAGAR	A		UP TO 1320 TPH	
62	APRON FEEDER WITH DRIBBLE CONVEYOR (1600 TP	I								
63	RING GRANULATOR	I								



Project/ परियोजना : DVC,Koderma Package/ पैकेज : IPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL बतावादी प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :				Applicable Systems	
S. N. क्र.सं.	Item / मद	QP / Insp. Cat. क्र.सं./ निरी. श्रेणी.	QP No. / क्र.सं. स.	QP Sub. Schedule विवरण	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/ स्थान	Sub-supplier's approval status / category उप	Sub-supplier Details submission	Remarks/ टिप्पणी		
64.A	VIBRATING SCREEN FEEDER	I			GENERAL KINEMATICS	USA	A		UP TO 2000TPH		
					THYSSENKRUPP	PUNE	A		UP TO 2035 TPH		
					TRF	JAMSHEDPUR	A		UP TO 1800 TPH		
					MCNALLY SAYAJI	KUMARDHUBI	A		TRF shall give extended warranty of 5 years over & above Contractual Warranty		
					TECHNO VIBRAZIONI	ITALY	A		UPTO 1210 TPH		
64.B	VIBRATING FEEDER	I			ELECON	V.V NAGAR	A		UP TO 1875 TPH		
					GENERAL KINEMATICS	USA	A		UP TO 1320 TPH		
					THYSSENKRUPP	PUNE	A		UP TO 2000TPH		
					TRF	JAMSHEDPUR	A		UP TO 1800 TPH		
					MCNALLY SAYAJI	KUMARDHUBI	A		TRF shall give extended warranty of 5 years over & above Contractual Warranty		
					INTERNATIONAL COMBUSTION	NAGPUR	A		UPTO 1210 TPH		
					Electro Zavod	Kolkata	A		UP TO 400TPH		
					Elektromag Joest	Vapi	A		UP TO 750 TPH		
					BENGAL TOOLS	KOLKATA	A				
					THYSSENKRUPP	PUNE / HYDERABAD	A				
65	TRAVELLING TRIPPER	I			ELECON	V.V NAGAR	A				
					MBE	KUMARDHUBI	A				
					TRF	JAMSHEDPUR	A				
					HMTc	KOLKATA	A				
					L & T - MAGNIL	CHENNAI	A				
					L & T	KANSBAHAL	A				
					L & T - EWL	KANCHEEPURAM	A				
					PHOENIX CONVEYOR BELT	KOLKATA	A		FABRIC BELT UPTO 2200 MM WIDTH, STEEL CORD BELT (FR GRADE UPTO 2400 MM WIDTH)		
					IMASS S.A	GREECE	A		FABRIC BELT UPTO 2400 MM WIDTH, STEEL CORD BELT (FR GRADE UPTO 2400 MM WIDTH)		



S. N. क्र.सं.		Item / मद	QP / Insp. Cat. स्कोर/ निरी. श्रेणी	QP No. / स्कोर सं.	QP Sub. Schedule स्कोर	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-supplier's approval status / category उप	Sub-supplier Details submission	Remarks/ टिप्पणी	Applicable Systems
66		FABRIC BELTING(FR GRADE) / STEEL CORD BELTING(FR GRADE)	1			MRF	CHENNAI	A		FABRIC BELT UPTO 1600 MM WIDTH	CHP, LHP/GHP
						SEMPELTRAN NIRLON	MUMBAI	A		FABRIC BELT UPTO 1600 MM WIDTH	
						HINDUSTAN RUBBER	SILVASA	A		FABRIC BELT UPTO 1600 MM WIDTH	
						NORTHLAND RUBBER	SONEPAT	A		FABRIC BELT UPTO 2200 MM WIDTH.	
						SOMI CONVEYOR	JODHPUR	A		FABRIC BELT UPTO 2000 MM WIDTH	
						RAVASCO TRANSMISSION LTD.	VAPI	A		FABRIC BELT UPTO 2200 MM WIDTH	
						ORIENTAL RUBBER	PUNE	A		FABRIC BELT UPTO 2200 MM WIDTH, STEEL CORD BELT (FR GRADE UPTO 2000 MM WIDTH)	
						FORECH	CHENNAI	A		FABRIC BELT UPTO 2200 MM WIDTH, STEEL CORD BELT (FR GRADE UPTO 2000 MM WIDTH)	
						CAMOPLAST	KOREA	A		STEEL CORD FR GRADE UPTO 2400 MM WIDTH	
						YOKOHAMA	JAPAN	A		FABRIC BELT UPTO 2400 MM WIDTH, STEEL CORD BELT (FR GRADE UPTO 2400 MM WIDTH)	
67		IDLERS	1			ELECON	V V NAGAR	A			CHP, LHP/GHP
						MBE	KUMARDHUBI	A			
						KALI	KUMBAKONAM	A			
						AMPS	JAMSHEDPUR	A			
						AADAK	HOWRAH	A			
						BTLEPC	KOLKATA	A			
						V V N MFG	V V NAGAR	A		Upto 150 NB Dia	
						THYSSENKRUPP	HYDERABAD / PUNE	A			
						PROMAC	BANGALORE	A			
						L & T - EWL	KANCHEEPURAM	A			
						ROLLWELL	HINDUPUR	A			
						TRF	JAMSHEDPUR	A			
						ELECON	V V NAGAR	A			
						PROMAC	BANGALORE	A			

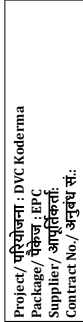


Project/परियोजना : DVC,Koderma Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.		INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL बतावाती प्लान तथा सब-सप्लायर के अनुमोदन सहित मॉड की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :				Applicable Systems	
S. N. क्र.सं.	Item / मद्द	QP / Insp. Cat. संख्या/ निरी. श्रेणी.	QP No. / क्यू.पी. सं.	QP Sub. Schedule संख्या	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/ स्थान	Sub-supplier's approval status / category उप	Sub-supplier Details submission	Remarks/ टिप्पणी		
68	PULLEYS	I			MBE	KUMARDHUBI	A				
					BTL EPC	KOLKATA	A				
					TNS HEAVY	CHENNAI	A				
					KALI	THIRUBUVANAM	A				
					THYSSENKRUPP	HYDERABAD / PUNE	A				
					L & T - EWL	KANCHEEPURAM	A				
					V V N MFG	V V NAGAR	A		Upto 800 NB Dia		
					ROLLWELL	HINDUPUR	A				
69	HELICAL GEARBOX	I			TRF	JAMSHEDPUR	A				
					SHANTI GEARS	COIMBATORE	A		Upto size 560		
					ELECON	V V NAGAR	A				
					SIEMENS (FLENDER)	KHARAGPUR	A				
					PREMIUM TRANSMISSION LTD	PUNE /PALTA	A		Up to size 710 / 450		
					SIEMENS (FLENDER)	GERMANY	A				
					NEW ALLENBURY WORKS	KOLKATA	A				
					ELECON	V V NAGAR	A				
70	PLANETARY GEARBOX	I			SIEMENS (FLENDER)	GERMANY	A				
					MOVENTAS	GERMANY	A				
					DANA MOTION SYSTEMS ITALIA S.r.l	ITALY	A		(Earlier name - BREVINI)		
					MACTORQ	HOSUR	A		Upto 11 KW		
					SEW EURODRIVE GMBH & CO.	GERMANY	A				
					FLUIDOMAT	DEWAS	A		Scoop type upto SC-1330		
					PTL	AURANGABAD	A		SCOOP TYPE UPTO PST 1150		
					ELECON	V V NAGAR	A		Scoop type upto model ESC-760. 1. As part of type test M/s Elecon will demonstrate Scoop tube in & Scoop tube out		
71	FLUID COUPLING (SCOOP AND TRACTION TYPE)	I									



Project/ परियोजना : DVC,Koderma Package/ पैकेज : IPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:			INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL बतावित प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)			DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :			Applicable Systems		
S. N. क्र.सं.	Item / मद	OP / Insp. Co. (कच्ची/ निरी. प्रणी.)	QP No./ कच्ची. सं.	QP Sub. Schedule बखी	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Sub-supplier's approval status / category उप	Sub-supplier Details submission	Remarks/ टिप्पणी			
72	SLEW RING	III			VOITH	A		SCOOP TYPE UPTO SVNL 1330			
					TITANUS	A					
					IMO	A					
					SKF	A					
					ROTHERS	A					
					LIEBHERR	A					
73.A	COAL SAMPLER SYSTEM	I			EAST MAN CRUSHER	A		WITH JEFFREY CRUSHER AND EASTMAN MAKE CRUSHER			
					ERIEZ MAG EUROPE LTD	A					
					SIEVE TECHNIK	A		MANUFACTURING OF PRIMARY & SECONDARY SAMPLER AN BOTTLE COLLECTOR AT MULTOTEC SA			
					THERMO RAMSAY INC	A					
					ADVANCE SYSTEMS SAMPLING	A		WITH JEFFREY CRUSHER AND ADVANCE MAKE CRUSHER			
					EAST MAN CRUSHER	A		WITH JEFFREY CRUSHER AND EASTMAN MAKE CRUSHER			
73.B	LIMESTONE SAMPLING SYSTEM	I			ERIEZ MAG EUROPE LTD	A					
					SIEVE TECHNIK	A		MANUFACTURING OF PRIMARY & SECONDARY SAMPLER AN BOTTLE COLLECTOR AT MULTOTEC SA			
					THERMO RAMSAY INC	A					
					ADVANCE SYSTEMS SAMPLING	A		WITH JEFFREY CRUSHER AND ADVANCE MAKE CRUSHER			
					EATON POWER	A					
					BOSCH-REXROTH	A					
74	HYDRAULIC POWER PACK	I			MAHA HYDRAULICS	A		EXCEPT FOR STACKER RECLAIMER			
					L & T HYDRAULICS	A					
					Hydac	A					
					VELJAN	A					
					WIPRO	A					
					EATON POWER	A					
75	HYDRAULIC CYLINDER	I									

CHP, LHP/GHP



Project/परियोजना : DVC Koderma
Package/ पैकेज : EPC
Supplier/ आपूर्तिकर्ता:
Contract No./ अनुबंध सं.:



Project/ परियोजना : DVC,Koderma Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:			INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL बतावाती प्लान तथा सब-सप्लायर के अनुमोदन सहित नमों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)			DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :			Applicable Systems		
S. N. क्र.सं.	Item / मद	OP / Insp. Co. (कच्ची/ निरी. प्रणी.)	QP No. / कच्ची. सं.	QP Sub. Schedule बखी	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-supplier's approval status / category उप	Sub-supplier Details submission	Remarks/ टिप्पणी		
78	SHOP FABRICATED STRUCTURE	1			ALLIANCE INTEGRATED METALIJS LTD(AIML)	RAJPIURA	A			GHP/LHP/GHP	
					ATMASTCO PVT LTD	DURGAPUR	A				
					APEX BUILDSYS LTD	NAGPUR	A				
					COREFAB PROJECTS PVT LTD	BHILAI	A				
					KOTHARI CHEMICALS	BHILAI	A				
					FEDDERS LLOYD CORPORATION LTD	SIKANDRABAD	A				
					ARCELOR MITTAL DHAMM PROCESSING PVT LTD	RANIPET	A				
					ARTSON ENGINEERING	NASIK	A				
					ARTSON ENGINEERING	NAGPUR	A				
					HEAVY ENGINEERING WORKS	REWA, MP	A				
					ARCELOMITTAL NIPPON STEEL INDIA LTD	CHENNAI	A				
					TRIDENT FABRICATORS PVT LTD	ROURKELA	A				
					GREAT INDIA STEEL FABRICATORS	YAMUNA NAGAR	A				
					METALFAB HITECH	NAGPUR	A				
					SUPERTECH INDIA	G.NOIDA	A				
					GOODLUCK STEEL	SIKANDRABAD	A				
79	Steel Cord Pipe Conveyor (FR Grade)	1			BTL	KOLKATA	A			Upto 2400 MM B/w Upto 2000 MM B/w Upto 2000 MM B/w	
					BTL	DURGAPUR	A				
					AMIYA STEEL	KOLKATA	A				
					NAMDHARI TRADERS	LUIDHIANA	A				
					THYSSENKRUPP INDUSTRIES INDIA	HYDERABAD	A				
					Phonix Cnoveyor belt	Kolkata	A				
					Oriental Rubber	Pune	A				
					Forech India Pvt Ltd	Cheygar	A				

Project/ परियोजना : DVC Koderna Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:			INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL इशारिली प्लान तथा सब-सुप्लायर के अनुमोदन सहित मर्चों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)			DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :					
S. N. क्र.सं.	Item / मर्द	QP / Insp. Cat. सूची/ निरी. श्रेणी	QP No. / सूची सं.	QP Sub- Schedule सूची	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Sub-suppliers approval status / स्वीकृति उप	Sub-supplier Details submission	Remarks/ टिप्पणी	Applicable Systems		
80	PIPE-SS ASTM A 312	II			REMI	A		ERW UPTO 400 NB,SEAMLESS UP TO 200NB			
					RATNAMANI	A		ERW UPTO 500 NB, SEAMLESS UPTO 50 NB ONLY			
					RATNAMANI	A		ERW UPTO 400 NB, SEAMLESS UPTO 50 NB ONLY, ARC WELDED UPTO 450NB			
					BHANDARI FOILS & TUBES LIMITED	A		ERW UPTO 300NB			
					APEX	A		ERW UPTO 400 NB, SEAMLESS UPTO 50 NB.			
					PRAKASH STEELAGE	A		ERW UP TO 203NB			
81	PIPE-CS SEAMLESS ASTM A 106	II			SHUBHLAXMI METALS AND TUBES	A		SEAMLESS UP TO 150MM and ERW UP to 250			
					ISMT	A		NBSch.40S UPTO 273 MM OD			
					ISMT	A		UPTO 273 MM OD			
					REMI	A		UPTO 177.8 MM OD			
82	HCSD PUMP	I			MAHARASHTRA SEAMLESS	A		UPTO 500 NB			
					WEIR MINERALS	A					
					ABEL	A					
					FELIWA	A					
ITEM WITH MAIN CONTRACTOR / BIS APPROVED SOURCES.											
1	BRANCH PIPE, COUPLING & NOZZLE (SS & GM)	II			BIS APPROVED SOURCES WITH VALID BIS LICENSE					FDPs	
2	FIRE EXTINGUISHER	II			BIS APPROVED SOURCES WITH VALID BIS LICENSE					FDPs	
3	WATER MONITOR	II			BIS APPROVED SOURCES WITH VALID BIS LICENSE						
4	PIPES-MS- (BLACK/ GI) AS PER IS:1239 & IS:3589 UPTO 1000 NB	II			(BIS MARKED, MANUFACTURERS WITH VALID BIS LICENSE)				WTP,CW/CT,CPU,FDP,SA C&VENTILATION,CHP,LH P&GHP,AHP		
5	FIRE HOSE	II			BIS APPROVED SOURCES WITH VALID BIS LICENSE				FDPs		
6	HYDRANT VALVE	II			BIS APPROVED SOURCES WITH VALID BIS LICENSE						
7	PIPES FOR IDLERS IS 9295	III			BIS APPROVED SOURCES WITH VALID BIS LICENSE				FDPs		
8	BLOWERS -CENTRIFUGAL >=5KW	II			MAIN CONTRACTOR APPROVED SOURCES				WTP		
9	CIO2 GENERATOR	II			MAIN CONTRACTOR APPROVED SOURCES				WTP		

	Project/ परियोजना : DVC Koderma Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता : Contract No./ अनुबंध सं.:	INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL इंगलिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : PAGE/ पृष्ठ :					
S. N. क्र.सं.	Item / मद	QP / Insp. Cat. क्रम/ निरी. श्रेणी.	QP No. / व्यूमी. सं.	QP Sub Schedule व्यवधि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप	Sub-supplier Details submission	Remarks/ टिप्पणी	Applicable Systems	
FORMAT NO./ प्रारूप सं. QS-01-QA-P-1B/FI-R0											
Engg. Div. / QA&I											

S. N. क्र.सं.		Item / मद्	Project/परियोजना : KODERMA TPS PH-11 (2X800MW) Package/ पैकेज : EPC PAC24AGE Supplier/ आपूर्तिकर्ता : Contract No/ अनुबंध नं.:CS-5200-001-2				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL कवालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मद् की सूची SUB-SYSTEM उप-प्रणाली: ELECTRICAL				Doc No./दस्तावेज नं.: REVISION NO : 00 DATE/ तिथि : 18.05.2023 SUB-SYSTEM उप-प्रणाली: QA-HLEC	
1		GENERATOR	CAT I	Q/P Insp. Cat. क्यूपी/निरी. श्रेणी.	Q/P No. /क्यूपी. सं.	Q/P Sub. Schedule क्यूपी उप.अनुसू. वि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval status/ category उप आपूर्तिकर्ता के अनुमोदन की स्थिति/श्रेणी	Sub-supplier Details sub sch/उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/टिप्पणी	
							BHEL	Hardwar	A			
							Siemens	Germany	A			
							GE	Sanand	A			
							GE	POLAND	A			
							MELCO	JAPAN	A			
							LMTC	Hazira	A			
							Hitachi	Japan	A			
							Toshiba	Japan	A			
							TIJS	Chennai	A			
		IPRD	CAT I				BHEL	Rudrapur	A			
							C&S ELECTRIC	Hardwar	A			
		Power Transformers	CAT I									
							ABB	Sweden	A	Up to 765 KV Class		
							ABB	Vadodara	A	Up to 765 KV Class		
							Toshiba	Japan	A	Up to 765 KV Class		
							CG Power & Industrial Solutions Ltd	Mandideep	A	Up to 765 KV class		
							BHEL	Bhopal	A	Up to 400 KV Class		
							Siemens	Mumbai	A	Up to 400 KV Class		
							GE T&D India Limited	Naini	A	Up to 400 KV Class		
							GE T&D India Limited	Vadodara	A	Up to 765 KV Class		
							TELK	Angamully	A	Up to 400 KV Class		
		Shunt Reactor	CAT I									
							ABB	Sweden	A	Up to 765 KV Class		
							ABB	Vadodara	A	Up to 765 KV Class		
							Toshiba	Japan	A	Up to 765 KV Class		
							CG Power & Industrial Solutions Ltd	Mandideep	A	Up to 765 KV class		
							BHEL	Bhopal	A	Up to 400 KV Class		
							Siemens	Mumbai	A	Up to 400 KV Class		
							GE T&D India Limited	Vadodara	A	Up to 765 KV Class		
							GE T&D India Limited	Naini	A	Up to 400 KV Class		
		Auxiliary Oil Filled Transformers	CAT I									
							BHEL	Itanasi	A	Up to 220 KV Class		
							Indutech Transformers	Chennai	A	Up to 16 MVA, 11 KV Class		
							Kanolar	Meerut	A	Up to 16 MVA, 33 KV Class		
							Kritsar Electric Company Limited	Mysore	A	Up to 16 MVA, 33 KV Class		
							Schneider	Vadodara	A	Up to 50MVA, 132 KV Class		
							Transformers & Rectifiers Ltd.	Ahmedabad	A	Up to 90 MVA, 132 KV Class		
							Tesla Transformers India Limited	Bhopal/23A SECTOR-B, I.A)	A	Up to 9 MVA		
							Voltamp	Soali	A	Up to 3.5 MVA, 33 KV Class		
		LT Switchgear -Floor mounted Draw out type indoor switchgear Panel (MCC etc.)	CAT I									
							Schneider (formerly L&T)	Mumbai / Combitore / Ahmednagar	A			
							C&S Electric	Noida / Hardwar	A			
							Schneider	Nasik	A	ACB from Schneider, France		
							Siemens	Katwa	A	Conditions apply		
							Schneider	Vadodara	A			
		LT Switchgear - Floor mounted Fixed type indoor LT Switchgear Panel (ACDB / DCDB)	CAT I									
							Schneider (formerly L&T)	Mumbai / Combitore / Ahmednagar	A			
							C&S Electric	Noida / Hardwar	A			
							Schneider	Nasik	A			
							Siemens	Katwa	A			
							Schneider	Vadodara	A			
		11KV/3.3KV Switchgear- (MV Switchgear Panel)	CAT I									
							BHEL	Bhopal	A	Up to 33KV		
							Megawin	Salem	A	Up to 33KV		
							Schneider Electric India (Formerly L&T)	Ahmednagar	A	Up to 33KV		

						Siemens	Mumbai	A		Upto 33KV
						ABB	Nasik	A		Upto 33KV
						Schneider (Salt lake works)	Kolkata	A		Upto 11KV
						Schneider	Vadodara	A		Upto 11KV
8.1		Fast Bus Transfer panel along with relay	CAT I			Aarech	Parwanoo	A		conditions apply
						ABB	Vadodara	A		conditions apply
						SEL	Dehi	A		conditions apply
9		HT Motor								
9.1		HT Motors (CW PUMP MOTOR)	CAT I			WEG	BRAZIL	A		UPTO 3405KW/11KV
						HYOSUNG	S.KOREA	A		UPTO 2800KW/6.6KV
						BHEL	BHOPAL	A		
9.2		HT MOTORS (BEP Motor)	CAT I							
						HYOSUNG	SOUTH KOREA	A		UPTO 11KV 13.5 MW
						BHEL	BHOPAL	A		RQP
						HYUNDAI	SOUTH KOREA	A		UPTO 11KV 17 MW
9.3		HT MOTORS (ID Fan Motors)	CAT I							
						HYOSUNG	SOUTH KOREA	A		UPTO 11KV 13.5 MW
						WEG	HOSUR	A		UPTO 11KV 14 MW
						BHEL	BHOPAL	A		RQP
						HYUNDAI	SOUTH KOREA	A		UPTO 11KV 17 MW
						TMEIC	BENGALURU	A		UPTO 11 KV 5000 KW
9.4		HT MOTOR FOR OTHER EQUIPMENTS	CAT - I							
						HYOSUNG	KOREA	A		UPTO 11KV 13.5 MW
						WEG	BRAZIL	A		UPTO 11KV 2150 KW
						HOSUR	HOSUR	A		UPTO 11KV 14 MW
						BHEL	BHOPAL	A		RQP
						HYUNDAI	KOREA	A		UPTO 11KV 17 MW
						TFCO	TAIWAN	A		UPTO 11KV 12 MW
						TMEIC	JAPAN	A		UPTO 11KV 14 MW
						CONVERTEAM	FRANCE	A		UPTO 11KV 18 MW (DOCUMENTS FOR NAME CHANGE TO GE CONVERTER TEAM SHALL BE SUBMITTED FOR APPROVAL)
						ABB	VADODARA	A		UPTO 6.6KV 2500 KW 11KV 2000 KW FOR PUMP/ FAN/ COMPRESSOR UPTO 6.6KV 750KW FOR MILL. UPTO 6.6 KV 1300KW FOR CRUSHER WITH SCOOP COUPLING
						JILIN	KOREA	A		UPTO 11KV 2500 KW. 6.6KV 2500 KW
						DYOTI	VADODARA	A		UPTO 6.6 KV 2250 KW EXCEPT CRUSHER & MILL APPLICATION
						MARATHON	KOLKATA	A		RQP. UPTO 6.6 KV 1300 KW FOR CRUSHER WITH SCOOP COUPLING & 11 KV 1600 KW FOR OTHER APPLICATION EXCEPT CRUSHER & MILL.
						CGL (D5 INDUSTRIAL AREA)	MANDIDEEP	A		UPTO 1650 KW 6.6 KV, 1350 KW 11 KV FOR PUMP, FAN, COMPRESSOR. UPTO 3.3 KV 335 KW WITH FLEXIBLE COUPLING FOR MILL APPLICATION
						CGL (PLOT 9)	MANDIDEEP	A		UPTO 11 KV 4MW FOR PUMP/ FAN/COMPRESSOR
						CG ELECTRIC SYSTEM	HUNGARY	A		UPTO 3.3 KV 1100 KW
10		H.T. CABLE upto 33KV	CAT I			TMEIC	BENGALURU	A		UPTO 11 KV 5000 KW
						Apar Industries	Umbergaon	A		
						Gemsab	Bhivadi	A		
						Gurta Power	Kashipur	A		
						Havelis India Ltd.	Alwar	A		
						KEC International	Vadodara	A		
						KEL Industries	Bhivadi	A		
						Krishna Electrical Industries Ltd	Gwalior	A		Up to 11KV only
						Polycab Wires Pvt. Ltd	Daman	A		Up to 11KV only
						Sri ram Cables	Bhivadi	A		Up to 11KV only
						Tirupathi Plastomatics	Jaipur	A		
						Torrent Cable Ltd	Nadaid	A		
						CMI	Baddi	A		
						Universal Cable Ltd.	Satna	A		
11		1.1 KV LT Power Cables (Type-XLPE Insulated, PVC sheathed incl FRLS)	CAT I							Refer Note-5 for category of inspection
						Advance Cable	Bengaluru	A		
						Apar Industries Ltd	Umbergaon	A		
						Cords Cables	Bhivadi	A		
						CMI	Baddi	A		
						Delton Cable Ltd	Faridabad	A		
						Dynamic Cables	Jaipur	A		
						Gemsab Industries	Bhivadi	A		
						Gurta Power Cables	Khurda	A		

53	STATOR WINDING BAR	CAT I				BHEL+HEEP	HARIDWAR		A	
54	GENERATOR SHAFT FORGING	CAT II								
						BUDERUS EDELSTAHL	GERMANY		A	
						JSW	JAPAN		A	
						SAARSCHEMIEDE	GERMANY		A	
						JCTC	JAPAN		A	
						PTSC Energomashpetstal	Ukraine		A	
						DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO. LTD.	SOUTH KOREA		A	
						SDE-TURNI	ITALY		A	
54.1	GENERATOR SHAFT MACHINING	CAT I				BHEL+HEEP	HARIDWAR		A	
55	CURRENT CARRYING BOLTS FOR ROTOR	CAT II				BHEL+HEEP	HARIDWAR			
56	SILVER BEARING COPPER HOLLOW STRIPS (ROTOR COIL)	CAT II				BHEL+HEEP	HARIDWAR		A	
						BUNT METAL	AUSTRIA		A	
57	ROTOR COIL FORMING	CAT II				BOASHIDA SWISS METAL	SWITZERLAND		A	
58	ROTOR SLOT ANGLE	CAT II				BHEL+HEEP	HARIDWAR		A	
						SAHNEY KIRKWOOD PVT. LTD.	NASIK		A	
						ABB SWITZERLAND LTD.	SWITZERLAND		A	
						VON ROLL ISOLA	FRANCE		A	
58.1	WEDGES FOR ROTOR (DAMPER +SLOT)	CAT II				KW EUROPA	GERMANY		A	
						BOASHIDA SWISS METAL	SWITZERLAND		A	
						LUVATA (OUTO KUMPU PORI)	FINLAND		A	
						BUNT METAL	AUSTRIA		A	
59	RETAINING RING	CAT II				SAARSCHEMIEDE	GERMANY		A	
						ENERGIE TECHNIK	GERMANY		A	
						JSW	JAPAN		A	
59.1	RETAINING RING MACHINING	CAT I				BHEL+HEEP	HARIDWAR		A	
60	FAN BLADE FOR COMPRESSOR M/C	CAT I				BHEL+HEEP	HARIDWAR		A	
60.1	FAN BLADE FOR COMPRESSOR (RAW MATERIAL) - HW1086 -X2Cr13	CAT I				BHEL+HEEP	HARIDWAR		A	
60.2	COMPRESSOR HUB M/C & ASSEMBLY	CAT I				Refer Steam Turbine List for same grade material for blade bars			A	
61	BEARING SHELL FORGING (GENERATOR)	CAT II				BHEL+HEEP	HARIDWAR		A	
62	BEARING COMPLETE (EXCITER)	CAT I				BHEL+CTFF	HARIDWAR		A	
						RENK AG	GERMANY		A	
						ZOLLERN	BRAZIL		A	
						EURO BEARINGS	ITALY		A	
63	END SHIELD FABRICATION & MACHINING	CAT I				BHEL+HEEP	HARIDWAR		A	
64	TERMINAL BOX FABRICATION	CAT I				BHEL+HEEP	HARIDWAR		A	
64.1	TERMINAL BOX MACHINING	CAT I				BHEL+HEEP	HARIDWAR		A	
65	HYDROGEN COOLER MAIN ITEMS	CAT I				BHEL+HEEP	HARIDWAR		A	
65.1	TUBES FOR COOLERS (BRASS / COPPER TUBES)	CAT II								
						MULTIMETALS	KOTA		A	
						Metha Tubes Pvt Ltd	VAPI		A	
						METAL ALLOYS	JAMNAGAR		A	
65.2	FINNING OF COOLER TUBES	CAT I				LAXMI ENGINEERING INDUSTRIES	BHOPAL		A	
						LORD VISHWAKARMA HEAT EXCHANGE	HARIDWAR		A	
						FTWELL CORPORATION	BHOPAL		A	
65.3	HYDROGEN COOLER	CAT I				BHEL+HEEP	HARIDWAR		A	
66	PW COOLER & SEAL OIL COOLER	CAT I				BHEL+HEEP	HARIDWAR		A	
						ALFA LAVAL (INDIA) LIMITED	PUNE		A	
						TRANITER INDIA PVT. LIMITED	PUNE		A	
67	SEAL OIL PUMP & PRIMARY WATER PUMP	CAT I								

[illegible]

		II		UNIMAC	JAPAN	A		
		I		MAHENDRA IND	BANGALORE	A		
		II		GEAR AND GRILLER	AUSTRIA	A		
		II		HITACHI MAGNET WIRE	JAPAN	A		
		I		PEARL INSULATION	BANGALORE	A		
		CAT I		COSMOS	BANGALORE	A		
86	HOLLOW COPPER CONDUCTOR (STATOR BAR)	II		UNIMAC	JAPAN	A		
		II		MITSUBISHI ELECTRIC	JAPAN	A		
		II		ISOLA	SWITZERLAND	A		
		I		MAHENDRA INDUSTRIES	BANGALORE	A		
		I		PEARL	BANGALORE	A		
		I		COSMOS	BANGALORE	A		
87	TERMINAL BUSHING (CONDENSER TYPE) (Lead bushing)	CAT II						
		II		EMIL HAFLEY(TRENCH)	SWITZERLAND	A		
		II		MITSUBISHI ELECTRIC	JAPAN	A		
		II		TRENCH	SWITZERLAND	A		
88	SUPPORT BRACKET	CAT I						
		II		MITSUBISHI ELECTRIC	JAPAN	A		
		I		LMB	HAZIRA	A		
89	CONNECTING BUS BAR (PHASE BELTS) FABRICATION	CAT II						
		II		SUMIKH COPPER	JAPAN	A		
		II		MITSUBISHI ELECTRIC	JAPAN	A		
		II		HITACHI CABLE	JAPAN	A		
		II		ORIENTAL COPPER	THAILAND	A		
90	INSULATING HOSES FOR STATOR (WATER SUPPLY HOSES)	CAT I						
		II		SAKURA RUBBER	JAPAN	A		
		II		MITSUBISHI ELECTRIC	JAPAN	A		
		II		CRANE RESISTOFLEX	USA	A		
		II		DK SCHNABEL	GERMANY	A		
91	SHIELD PLATES / SHIELD CLAMPER	CAT I						
		III		MITSUBISHI ELECTRIC	JAPAN	A		
		I		RV ENGG	FARIDABAD	A		
		I		AK Multi metal	PUNJAB	A		CS Casting for Generator Bracket Hub of Bearing bracket, Ni-alloy casting for Generator Blower Shroud & Shield clumper, modular cast iron casting for Shroud support.
92	STATOR WINDING ASSLY	CAT I						
		I		MITSUBISHI ELECTRIC	JAPAN	A		
		I		LMTC	HAZIRA	A		
93	GENERATOR SHAFT FORGING	CAT II						
				SAARSHMIDDE	GERMANY	A		
				Buderus Edelsahl	GERMANY	A		
				JSW	JAPAN	A		
				SDF	ITALY	A		
				CRUIST FORCE	FRANCE	A		
				ONZ	RUSSIA	A		
				FORGE MASTER	UK	A		
				JCTC	JAPAN	A		
94	GENERATOR ROTOR MACHINING	CAT I						
		II		MITSUBISHI ELECTRIC	JAPAN	A		
		II		NUGO ROMANO	ITALY	A		
		I		LMTC	HAZIRA	A		
95	ETS MATERIAL (Core material)	CAT I						
		I		THYSSON KRUPP	NASIK	A		
		II		NIPPON	JAPAN	A		
		II		JFE	JAPAN	A		
		I		POSCO	RAIGARHI	A		
		I		JSW	BELLARY	A		
		II		MITSUBISHI	JAPAN	A		
96	RETAINING RING FORGING(MAT- CrMn J818)	CAT II						
				SAARSHMIDDE	GERMANY	A		
				JSW	JAPAN	A		

						FORGEMASTER	UK			A
						OMZ	RUSSIA			A
161	Generator Shaft Machining	CAT I								
						Alstom (Switzerland) Ltd.	Switzerland			
						Alstom Bharat Forge Power Limited	Sanand			A
162	Centering Ring Forging	CAT II								
						Bharat Forge	Pune			A
						Schmiedewerk Stoss	Switzerland			A
						FORGITAL SPA VELO D'ASTICO	Italy			A
						LOCALITA				
						Bay Forge	Chennai			A
163	Centering Ring Machining	CAT II								
						Alstom (Switzerland) Ltd.	Switzerland			A
						Bharat Forge Limited	Satara			A
164	Retaining Ring FORGING (Mat.18-18Cr-Mn)	CAT II								
						Energie-technik Essen	Germany			A
						Saeschmiede	Germany			A
						ISW	Japan			
165	Retaining Ring Machining	CAT II								
						Alstom (Switzerland) Ltd.	Switzerland			A
						Alstom Bharat Forge Power Limited	Sanand			A
166	Rotor Copper Profile	CAT II								
						Swissmetall	Switzerland			A
						Widland	Germany			A
						Buntmetall	Austria			A
167	Field Lead Cone Bar for Rotor	CAT II								
						Swissmetall	Switzerland			A
						Buntmetall	Austria			A
						Widland	Germany			A
168	Radial Belt for Rotor	CAT II								
						Alstom	Switzerland			A
						Starwire	Bulgaria			A
						Atals	Hydrabad			only for Machining
169	Rotor Coil Forming	CAT I								
		CAT II				Alstom (Switzerland) Ltd.	Switzerland			A
		CAT I				Alstom Bharat Forge Power Limited	Sanand			A
170	Rotor Slot Wedges & Damper wedges	CAT II								
						Swissmetall	Switzerland			A
						Widland	Germany			A
						Luvata	Finland			A
						Buntmetall	Austria			A
171	Generator Rotor Final	CAT I								
						ALSTOM Power Sp. z o.o.	Poland			A
						Alstom (Switzerland) Ltd.	Switzerland			A
172	Hydrogen Blower	CAT II								
						FIMA	Germany			A
172.1	Hydrogen Blower Assembly	CAT II								
						Alstom (Switzerland) Ltd.	Switzerland			A
173	Terminal Bushing(Condenser type)	CAT II								
						Trench (Emilly new name)	France			A
						HSP	Germany			A
174	Terminal Box Fabrication	CAT II								
						ALSTOM Power Sp. z o.o.	Poland			A
						ISGEC	Yamunapagr			A
						Shape Engg	Hardwar			A
174.1	Terminal Box Machining	CAT II								
						ALSTOM Power Sp. z o.o.	Poland			A
						Energy machines	Ahmedabad			A
175	End Shield Fabrication	CAT I								
						ALSTOM Power Sp. z o.o.	Poland			A
						Shape Engg	Hardwar			A
						ISGEC	Yamunapagr			A
175.1	End Shield Machining	CAT I								
						ALSTOM Power Sp. z o.o.	Poland			A
						ISGEC	Yamunapagr			A
						Energy Machines	Ahmedabad			A
176	Seal Assembly (Ring & Housing)	CAT II								
						ALSTOM Power Sp. z o.o.	Poland			A
177	Stator water cooler	CAT I								
						Alpha Laval	Sweden			A
						GFA	Germany			A
						TRANSTER	Pune			A
						IDMC Ltd	Anand			A
178	Stator water cooling unit	CAT II								

179	Stator water cooling pump	CAT II	Rocklin	Poland	A		
			ALWELLER	GERMANY	A		
			KSB	Pune	A		
			Ebara	Japan	A		
180	Slip Ring Shaft Forging	CAT II	SULZER	Navi Mumbai	A		
			See Generator Forging Suppliers				
			Bharat Forge	Pune	A		
180.1	Slip Ring Shaft Machining	CAT II	BAY FORGE	Chennai	A		
			Akatom (Switzerland) Ltd.	Switzerland	A		
			Euroflex Transmission(india) pvt. Ltd.	Hydrabad	A		
181	DC-Load Assembly for Slip Ring	CAT II					
181.1	Slip Ring Shaft Assembly	CAT I	Akatom (Switzerland) Ltd.	Switzerland	A		
			Akatom (Switzerland) Ltd.	Switzerland	A		
			Euroflex Transmission(india) pvt. Ltd.	Hydrabad	A	Only M/c	
182	Seal Oil Pump	CAT I	Allweiler	Germany	A		
			DAMAN	Germany	A		
			UT PUMP	FARDABAD	A		
183	Seal Oil Cooler	CAT I	GEA	Germany	A		
			Alpha Level	EUROPE	A		
			Alfa level	Satara	A		
			ALPITALAVAL	Sweden	A		
			TRANTRER	Pune	A		
184	Seal Oil Unit	CAT II	Rocklin	Poland	A		
185	Hydrogen Cooler	CAT I	GEA	Germany	A		
			Kelvin	Pune	A		
			Laxmi	Bhopal	A		
186	Hydrogen dryer(Bedrigant Type)	CAT I					
			Indal electrical	Roorkee	A		
			Mekon engg	G. NOIDA	A		
187	Copper connector between main rotor and slip ring shaft(radial stud)	CAT II					
			SWISS METAL	Switzerland	A		
			Phisterer Sefag AG	Germany	A		
188	Carbon Brush & Holders	CAT III					
			Morgan	Germany	A		
			Vidhyut Carbon	Haridwar	A		
			National Carbon	Kolkata	A		
			G. Dietrich (belongs to CL)	Germany	A		
189	EFS Material	CAT I					
		CAT I	Thyssen Krupp	N/ASIK	A		
		CAT II	Mitsubishi	Japan	A		
		CAT II	Arctor	Luxemburg	A		
		CAT III	Salzgitter	Germany	A		
		CAT II	Alloverze	Germany	A		
		CAT I	JSW	BELLARY	A		
		CAT II	JFE	Japan	A		
190	Radial Leads (Slip Ring Shut)	CAT II			ALSO FOR SI, NO 71		
			Schmelzmetall AG	Switzerland	A		
191	Connection Rod for main Rotor	CAT II					
			Wedand werke	Germany	A		
			Swiss Metal	Switzerland	A		
192	Excitation System	CAT I					
			Akatom Power Sp. z o o	Poland	A		
			GE power	NOIDA	A		
193	GHM(Generator health monitoring system)	CAT I					
194	Excitation AC-DC Bus duct	CAT I	GE Power	Noida	A		
			Bacon	Belgium	A	for Cast Resin	
			REEP	Chennai	A		
			C&S	NOIDA	A		

NO	TE	1. CHECKS FOR STATOR CORE ASSLY, STATOR WINDING ASSEMBLY (GEN.), GENERATOR ROTOR -FINAL, BEARING ASSEMBLY/SHAFT SEAL ASSEMBLY, EXCITER ASSLY (MAIN & PILOT)/SLIP RING SHAFT ASSEMBLY WITH BRUSH GEARS, EXCITER TEST RUN, GENERATOR ASSEMBLY AT WORKS INCLUDING TERMINAL BUSHING & GENERATOR WORKS RUN TEST SHALL BE FINALIZED DURING DETAILED ENGINEERING/MQP FINALIZATION FOR THE RESPECTIVE OEMs.									
		2. For Raw Material/Components/Items of Generator which are not appearing in the above list, their OEM approved sources shall be tied up during Detailed Engineering/MQP finalization.									
ID- MAJOR COMPONENTS FOR TOSHIBA MAKE GENERATOR (AS PER OEM SPECIFIC DESIGN):											
195		STATOR FRAME WITH MAIN HOLE COVER FABRICATION & MACHINING	CAT I								
						TOSHIBA	JAPAN				
						IJPS	CHENNAI			A	
196		KEY BAR FABRICATION AND MACHINING	CAT I								
						TOSHIBA	CHENNAI			A	
						Kalyani Carpenter (Material)	Pune			A	
						Punj Lloyd (Machining)	Gwalior			A	
197		KEY BAR ASSEMBLY	CAT I								
						TOSHIBA	JAPAN			A	
						IJPS	CHENNAI			A	
198		DOVETAIL FOR STATOR	CAT I								
						TOSHIBA	JAPAN			A	
						IJPS	CHENNAI			A	
199		END PRESSURE PLATE - Fabrication	II								
			I			TOSHIBA	JAPAN			A	
						IJPS	CHENNAI			A	
199.1		End Pressure Plate - Machining	CAT II								
						IJPS	CHENNAI			A	
						Sharp Engineering	Pune			A	
						N.S.Engg.	Hyderabad			A	
200		STATOR CORE PUNCHING									
			I			IJPS	CHENNAI			A	
			II			TOSHIBA	JAPAN			A	
201		TERMINAL BOX FABRICATION& MACHINING									
			II			TOSHIBA	JAPAN			A	
			I			IJPS	CHENNAI			A	
						Leo Prime	Chennai			A	
202		OVER HANG SUPPORT RING	CAT II								
						HITACHI CHEMICAL	JAPAN			A	
203		SOLID COPPER CONDUCTOR (FOR STATOR BAR)	CAT II								
						UNIMAC	JAPAN			A	
204		HOLLOW COPPER CONDUCTOR (FOR STATOR BAR)	CAT II								
						UNIMAC	JAPAN			A	
											HOLLOW CONDUCTOR (RAW MATERIAL FROM FURUKAWA- JAPAN)
205		TERMINAL BUSHING (CONDENSER TYPE)	CAT II								
						PASCONI & VILLA	ITALY			A	
						Trench	Switzerland			A	
						Toshiba	Japan			A	
206		CONNECTING BUS BAR (PHASE BELTS) FABRICATION	CAT II								
						SUMIKEI COPPER	JAPAN			A	
						Oriental Copper	Thailand			A	
						Hitachi Cable	JAPAN			A	
207		INSULATING HOSES FOR STATOR (WATER SUPPLY HOSES)	CAT II								
						SAKURA RUBBER	JAPAN			A	
						CRANE RESISTOFLEX	USA			A	
						MIL	Chennai			A	
208		GENERATOR SHAFT FORGING	CAT II								
						SAARSCHMIEDE	GERMANY			A	
						SDF ITALY	ITALY			A	
						JCF	JAPAN			A	
						JSW	JAPAN			A	
						BUDERUS EDESTAHL	GERMANY			A	
						Doosan	Korea			A	
208.1		GENERATOR SHAFT MACHINING	CAT I								
						TOSHIBA	JAPAN			A	
						IJPS	CHENNAI			A	
209		ETS MATERIAL	CAT II								
						NIPPON	JAPAN			A	
						JFE	JAPAN			A	
210		RETAINING RING FORGING (MAT-CrMn 18-18)	CAT II								
						SAARSCHMIEDE	GERMANY			A	

210.1	RETAINING RING MACHINING	CAT II		JSW	JAPAN	A		
				TOSHIBA IJPS	JAPAN Chennai	A A		
211	SILVER BEARING COPPER HOLLOW STRIPS (ROTOR COM.)	CAT II			THAILAND	A		
212	FIELD LEAD CORE BAR FOR ROTOR WITH D LEAD	CAT II						
					GERMANY THAILAND GERMANY	A A A		
213	CURRENT CARRYING BOLTS FOR ROTOR	CAT II						
				TOYO KOGYO TOSHIBA	JAPAN JAPAN	A A		
214	ROTOR COIL FORMING	CAT II						
				TOSHIBA IJPS	JAPAN Chennai	A A		
215	ROTOR SLOT WEDGES & DAMPER WEDGES FABRICATION & MACHINING	CAT II						
				MURUKAMI	JAPAN	A		
				FIAT	ITALY	A		
216	GENERATOR ROTOR-FINAL	CAT I		TOSHIBA	JAPAN	A		
				TOSHIBA IJPS	JAPAN Chennai	A A		
217	MOLDED INSULATION RING (FAN NOZZLE RIM)	CAT I						
		II		PCT	USA	A		
		I		PERMALI WALACE	Bhopal	A		
218	FAN BLADE ASLY ON ROTOR	II		TOSHIBA	JAPAN	A		
		I		IJPS	Chennai	A		
219	D LEAD (EL CORE BAR & CONTACT BOLT FOR SLIP RING							
		I		IJPS	Chennai	A		
		II		TOSHIBA	JAPAN	A		
220	END SHIELD FABRICATION & MACHINING	CAT I			HARIDWAR Chennai	A A		
				SHAPE				
221	Bearing (CE & TE)			DSE	Korea	A		
		I		Omega Remk	Bhopal	A		
		II		DYM	Korea	A		
222	CENTERING RING FORGING			BAY FORCE	CHENNAI	A		
		II		MINATO KIKO	JAPAN	A		
				NISHIMAKI IRON WORKS	JAPAN	A		
		I		GOODLUCK	GHAZIABAD	A		
223	SEAL ASSLY (RING & HOUSING)	CAT II						
				TOSHIBA	JAPAN	A		
224	SLIP RING SHAFT ASSLY	I		IJPS	Chennai	A		
		II		TOSHIBA	JAPAN	A		
225	FAN BLADE FORGING & MACHINING	II		MURAKAMI SHESAKUSHO	JAPAN	A		
		I		IJPS	Chennai	A		
				Azad	Hyderabad	A		
		II		TOSHIBA	JAPAN	A		
226	HYDROGEN COOLER	CAT II		ENERGVEN	KOREA	A		
				KITASHIBA ELECTRIC	JAPAN	A		
227	AC/DC BUSDUCT	CAT I		Kamatika Gas Coolers	Bangalore	A		
				SFACEAGE	GURGAON	A		
				RIEF	CHENNAI	A		
228	EXCITATION TRANSFORMER (DRY TYPE)	CAT I		C&S ELTRIC	NOIDA/HARIDWAR	A		
				RITZ	GERMANY	A		UPTO 8 MVA
				BHEL	JHANSI	A		UPTO 6 MVA
229	EXCITATION SYSTEM	CAT I						

PROJECT : KODARMA TPS PH-I (2X800 MW) PACKAGE : EPC PACKAGES CONTRACTOR : CONTRACT NO :							LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL				REVISION NO : 00 DATE :19.05.2023 SUB SECTION: C&I	
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark	
1	AAQMS System	I				ACOEM Ecotech Industries Pvt Ltd	Pithampur	A			1. So2 ,Nox,CO,CO2 ,Ozone ,PM-10,PM-2.5 & multipoint calibrator will be from Ecotech Australia 2.Metrological sensor from Dynalab 3. Mercury analyser from LOA agreed sources 4.PI refer Note-07	
		I				Horiba India Pvt ltd	Pune	A			1. So2 ,Nox,CO,CO2 ,Ozone & multipoint calibrator will be from Horiba Japan 2.PM-10,PM-2.5 ,TSP will be from Met One USA & metrological sensor from Spectrum USA 3. Mercury analyser from LOA agreed sources	
		I				Environment SA India Pvt. Ltd.	Mumbai	A			1. Analysers SO2,NOx,CO2 & SPM from Environment SA France, 2-Multipoint Calibrator From environment SA France 3-Metrological Sensor with interface unit from M/s LSI Lastem SRL, Italy	
		I				Thermo Fisher Scientific India Pvt. Ltd	Mumbai	A			1) Analysers (Sox, Nox, CO, SPM, RSPM ,Ozone) ,multi gas calibrator shall be sourced from their principle Thermo Environmental USA (Division of M/S Thermo fisher Scientific, USA) 2)Metrological sensors shall be sourced from M/S Metone Instruments USA 1. Analysers from M/S Teledyne USA except Mercury analyser 2.Metrological sensors & SPM analysers from Met one Instruments Inc USA 3.PI refer note-07	
2	Acoustic pyrometer System	I				Chemtrol Engineering Ltd	Goa	A			1. Boiler watch processor control unit, acoustic sensor (Pizeo/Microphone with prefab cable) , Preamplifier , mapping software & analog output cards shall be from M/S SEI USA . 2. Enclosure ,OWS ,Waveguide ,Transition cone with flange , venturi , Tube box etc shall be from M/S SEI USA approved sources to be tiedup in MQP. 3. PI refer Note-07	
		I				Lucent Marcons Pvt Ltd (As a system Integrator of M/S Scientific Environmental Instruments, Inc. (SEI) USA)	Noida	A			1.All critical components are to be procured from M/S Bonnenberg + Drescher GmbH, Germany 2.Standard indiginous components like Solenoid valve (Asco make) ,matching flange ,printer & monitor table shall be supplied by M/S Hr- Tech	
		II				Hi-Tech Systems & Services Ltd (As a system Integrator of M/S Bonnenberg + Drescher GmbH, Germany)	Kolkata	A			1.PCU ,Acoustic sensor ,Preamplifier mapping software shall be from SEI USA . 2. Enclosure ,OWS ,Waveguide ,Tube box etc shall be from SEI approved sources to be tiedup in MQP. 3.PI refer Note-07	



PROJECT : KODARMA TPS PH-I (2X800 MW)											
PACKAGE : EPC PACKAGES											
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Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-1)	SS Detail Sub.SCH	SS Approval SCH	Remark
		II				Bonnenberg + Drescher GmbH,	Germany	A			
		II				STOCK Equipment Co	USA	A			
3	Addressable Detector (Multisensor , Photo & Heat Detectors Type), Interface units & Manual call points										
		II				Honeywell Life Safety-HIPL	Gungnam	A			Notifier Brand (Detector, Interface Module only)
		II				Schrack	Austria	A			
		II				Autronica	Norway	A			
		II				Edwards	Mexico	A			
		II				Notifier	USA	A			
		II				Shield Fire safety	UK	A			
		II				Jhonson Controls	USA	A			Simplex Brand
4	Battery for 24VDC charger & UPS										
		Note-4				Hoppecke Batterien GmbH & Co Kg	Germany	A			For Lead Acid- Plante
		Note-4				Exide	Kolkata	A			For Lead Acid- Plante
		Note-4				SAFT India Ltd	Bengaluru	A			For Ni-Cd
		Note-4				HBL Power	Hyderabad	A			For Ni-Cd Upto 990AH (H type)
		Note-4				SAFT	France/Sweeden	A			For Ni-Cd
		Note-4				Hoppecke Batterien GmbH & Co Kg	Germany	A			For Ni-Cd
5	Blank Panels / Cabinets										
		III				Pyrotech Electronics Pvt. Ltd	Udaipur	A			
		III				Rittal India Private Ltd	Bengaluru	A			
		III				Hoffman	Bengaluru	A			
		III				BHEL	Bengaluru	A			
		III				BCH ELECTRIC LIMITED	Faridabad	A			
6	Boiler tube leak detection system (ASLD)										
		III				HI Tech System & services Ltd (System Integrator of Acoustic Monitoring International Inc. USA)	Kolkata	A			1.M/S Acoustic Monitoring International Inc. USA Make system Conditional as per approval letter 01/CQA/9573-102/H-tech-AMI dated 11.04.2013 2.PI refer Note-07
		III				Raman Instruments (System Integrator of M/S Procon UK)	Delhi	A			1.M/S Procon UK Make system 2.PI refer Note-07
		III				BHEL Ltd	Trichurapalli	A			
		III				Instrotech (PTY) Ltd	South Africa	A			
		III				Rectuson Co. Ltd	S.Korea	A			
		III				Procon Engineering	UK	A			
		III				Acoustic Monitoring International Inc. (AMI)	USA	A			
7	CCTV System (IP Based)										
		III				Axis	Sweden	A			1-CCTV components will be of Axis communication AB.Sweden make & Video Management Software will be of Milestone Brand 2. Other BOI items shall be from LOA approved sources & will be tied up during the finalization MQP.
		III				Bosch	Bengaluru	A			1. CCTV components will be of M/S Bosch make, and supplied through M/s Bosch, Bengaluru. 2. Other BOI items shall be from LOA approved sources & will be tied up during the finalization MQP.

PROJECT : KODARMA TPS PHFI (2X800 MW) PACKAGE : EPC PACKAGES CONTRACTOR: CONTRACT NO. :										LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL				REVISION NO : 00 DATE: 19.05.2023 SUB SECTION: C&I	
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark				
7A	CCTV System (IP Based)/System Integrators	III				Pelco	USA	A			1.CCTV components will be of M/S Pelco, USA make 2.Other BOI items shall be from LOA approved sources & will be tied up during the finalization MQP.				
		I				Jonson Control India Pvt Ltd	Mumbai	A			M/S Pelco Make CCTV system				
		I				Toshniwal Industrial Pvt Ltd	Ajmer	A			M/S Axis Make CCTV system				
		I				L&T TECHNOLOGY SERVICES	Bengaluru	A			M/S Bosch Make CCTV system				
		I				Score Information Technologies Limited	Kolkata	A			M/S Bosch Make CCTV system				
8	Control Desk	I				Pyrotech Workspace Solutions Pvt Ltd	Udaipur	A			BOI items like Mosaic tiles / Console items shall be as per LOA approved sources				
		I				Cosmos Media Products Pvt Ltd	Greater Noida	A			1. BOI items like Mosaic tiles / Console items shall be as per LOA approved sources 2. H block should be from knurr Germany Solid acrylic surface should be procured from Du Pont/NTPC approved sources 3 Extruded Al profile structure should be procured from Hindalco (With Knurr design)				
		I				Adarsha Control system Pvt Ltd	Bengaluru	A			1. BOI items like Mosaic tiles / Console items shall be as per LOA approved sources 2. Acrylic solid surface (ASS) should be procured from Du Pont /NTPC approved sources 3. wood works are to be done by M/S C K Furn. Bengaluru				
9	Control Valves														
9-A	Control Valves for Aux PRDS system including desuperheater														
		I				Instrumentation Limited	Palakkad (Kerala)	A			Up to A182F92 material with conditions as per approval letter				
		I				Koso India Pvt limited	Nasik	A			Up to A182F92 material with conditions as per approval letter				
		I				Bonafat Special Valve solutions Pvt ltd	Ahmedabad	A			Up to A182F92 material with conditions as per approval letter				
		I				KSB MIL Controls Ltd	Thrissur (Kerala)	A			As per approval Ref: 02/CQA/SG/Tanda/MIL Dated 30.09.2015				
		I				Control Component India PVT Ltd	Stricity (Andhra Pradesh)	A			1.MQP shall be vetted by M/S CCI -USA 2.Sources of major components like casting /forging and actuators shall be tied up during finalization of MQP				
		II				Parcol SPA	Italy	A							
		II				Daume	Germany	A							
		II				HOLTER	Germany	A							
9-B	Control Valve for Start Up System														
		I				Control Component India PVT Ltd	Stricity (Andhra Pradesh)	A			1.The critical components of control valve i.e. Disk Stack (Drag technology) shall be sourced from CCI, USA/CCI S. Korea . 2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea 3. Control valve to be manufactured as per CCI USA design & drawing.				
		I				KOSO India Pvt Ltd	Nasik	A							

PROJECT : KODARMA TPS PH-I (2X800 MW) PACKAGE : EPC PACKAGES CONTRACTOR: CONTRACT NO. :										LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL				REVISION NO : 00 DATE :13.05.2023 SUB SECTION: C&I	
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark				
		I				Emerson Process Management Ltd	Chennai	A							
		II				Dresser Produits industriels	France	A							
		II				SEMPPELL AG	Germany	A							
		II				Nihon Koso Co Ltd	Japan	A			Up To size 20 Inches & 2500 ANSI Class				
		II				HORA	Germany	A							
		II				CCI	S.Korea	A							
		II				Emerson (Fisher)	USA/France/Japan	A							
9-C	Control Valve for BFP Recirculation.														
		I				Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			1.The critical components of control valve i.e. Disk Stack (Drag technology) shall be sourced from CCI, USA/CCI S. Korea . 2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea 3.Control valve to be manufactured as per CCI USA design & drawing.				
		I				KOSO India Pvt Ltd	Nasik	A							
		I				KSB MIL Controls Ltd	Thrissur (Kerala)	A			Up to 10 Inches & 3400 ANSI class				
		II				Dresser Produits industriels	France	A							
		II				Industriels S.A.S	Japan	A							
		II				Nihon Koso Co Ltd	USA	A							
		II				CCI	USA	A							
		II				Emerson (Fisher)	USA/France/Japan	A							
9-D	Control valve for feedwater flow Control														
		I				Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			1.The critical components of control valve i.e. Disk Stack (Drag technology) shall be sourced from CCI, USA/CCI S. Korea . 2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea 3.Control valve to be manufactured as per CCI USA design & drawing.				
		I				KOSO India Pvt Ltd	Nasik	A							
		I				Emerson Process Management Ltd	Chennai	A			Control valve body assembly will be from Nippon Fisher ,Japan with IBR form III C certificates .				
		I				KSB MIL Controls Ltd	Thrissur (Kerala)	A			1.Provision of straight type of brackets for linkage mechanism . 2.Factory fitted strainer /diffuser type seat ring . 3.AFR with T connector for pneumatic connection to volume booster				
		II				Dresser Produits industriels	France	A							
		II				Industriels S.A.S	Japan	A							
		II				CCI	USA / Austria / S.Korea / Switzerland	A			CONDITIONAL				
		II				Emerson (Fisher)	USA/France/Japan	A							
9-E	Control valves for Soot blower pressure reducing ,SH/ RH Attenuation.														

PROJECT : KODARMA TPS PHJ1 (2X800 MW) PACKAGE : EPC PACKAGES CONTRACTOR: CONTRACT NO :							LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL					REVISION NO : 00 DATE :19.05.2023 SUB SECTION: C&I	
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval_Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark		
		I				Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			1.The critical components of control valve i.e. Disk Stack (Drag technology) shall be sourced from CCI, USA/CCI S. Korea . 2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea 3.Control valve to be manufactured as per CCI USA design & drawing.		
		I				KOSO India Pvt Ltd	Nasik	A					
		I				Emerson Process Management Ltd	Chennai	A					
		I				KSB MIL Controls Ltd	Thrissur (Kerala)	A					
		I				GE Oil & Gas India Pvt Limited	Coimbatore	A			up to 2500 ANSI Class		
		I				Flow Serve India Controls Pvt Ltd	Bengaluru	A					
		I				Instrumentation Limited	Palakkad (Kerala)	A			only for SH / RH		
		II				Nihon Koso Co Ltd	Japan	A					
		II				Dressor Masonellan	USA	A			only for SH / RH/ up to 2500 class		
		II				Dresser Produits industriels	France	A					
		II				Industriels S.A.S							
		II				SPX Flow Technology	USA	A			only for SH / RH		
		II				Leslie Controls Inc	USA	A			only for SH / RH		
		II				Sempell AG (Tyco group)	Germany	A			only for SH / RH		
		II				CCI	USA,Sweden /S.Korea	A					
		II				Emerson (Fisher)	USA/France /Japan	A					
9-F	Control valve(Other application)					Mascot Valves Pvt Ltd	Ahmedabad	A			Up to size 12 inches & 900 ANSI class		
		I				Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			Up to 2500 ANSI class		
		I				KOSO India Pvt Ltd	Nasik	A			Up to 2500 ANSI class		
		I				KSB MIL Controls Ltd	Thrissur (Kerala)	A			Up to 2500 ANSI class		
		I				Emerson Process Management Ltd	Chennai	A			Up to 2500 ANSI class		
		I				GE Oil & Gas India Pvt Ltd	Coimbatore	A			Up to size 10 inches & 900 ANSI class /Up to size 24 inches & 600 ANSI class		
		I				Flow Serve India Controls Pvt Ltd	Bengaluru	A			Up to size 14 inches & 600 ANSI class		
		I				Forbes Marshall Area Pvt. Ltd	Pune	A			Up to size 16 inches & 900 ANSI class		
		I				Instrumentation Limited	Palakkad (Kerala)	A			Up to 2500 ANSI class		
		I				Severn Glocon India Pvt Ltd	Chennai	A			Up to size 14 inches & 300 ANSI class		
		II				CCI	USA/Sweden /S.Korea	A					
		II				Nihon Koso Co Ltd	Japan	A					
		II				Emerson (Fisher)	USA/France /Japan	A					
		II				Leslie Controls Inc	USA	A					
		II				PARCOL S.P.A	Italy	A					
		II				Dresser Produits industriels	France	A					
		II				Industriels S.A.S							
		II				HORA	Germany	A					
		II				Wellend & Tuxhorn	Germany	A					
		II				SPX Flow Technology	USA	A					
		II				Sempell AG (Tyco group)	Germany	A					
9-G	Control Valve (Ceramic lined)												
		I				Samson Controls Pvt Ltd	Pune	A			1. For M/S Samson Cera Germany make valve Up to 10 inches size & 150 ANSI class 2. BOI shall be tied up at the time of finalisation of MQP		
10	DDCMIS												
		I				ABB	Germany	A					
		I				SIEMENS AG	Germany	A					



PROJECT : KODARMA TPS PHH (2X800 MW)

PACKAGE : EPC PACKAGES

CONTRACTOR :

CONTRACT NO :

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LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL

Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
		I				Emerson Process Management Asia Pacific Pvt Ltd	Singapore	A			
		I				Hitaichi nest control system Pvt Ltd	Bengaluru	A			
		I				Honeywell Automation India Ltd	Pune	A			
		I				GE	France	A			
		I				SIEMENS	Gurugram	A			
		I				BHEL	Bengaluru	A			For MAX DNA System
		I				Yokogawa	Bengaluru	A			
		I				GE Power India Ltd	Noida	A			
		I				Toshiba	Japan	A			
		I				ABB	Bengaluru	A			
		I				Emerson Process Management Ltd	Pawane	A			
11	Dust Emission Monitor										
		III				Durag India Instrumentation Pvt Ltd	Bengaluru	A			1. For Durag Germany Make Extractive Type Dust density analyser 2. Other components shall be as per approval letter COA/NTPC BARH-STPP-I / D-263 / Durag India Instrumentation Pvt Ltd Bengaluru Dated 28.08.2019
		III				Sick India Pvt ltd	Mumbai	A			1. For SICK AG Make Extractive Type Dust density analyser 2. Other components shall be as per approval letter COA/NTPC BARH-I / S-907/M/S SICK India Pvt Ltd dated 28.08.2019
		III				Environment SA India Pvt Ltd	Nav Mumbai	A			1. For ENEVA UK Make Extractive Type Dust density analyser 2. Other components shall be as per approval letter No : COA/NTPC BARH-I / E-335 / M/S Environment SA India Pvt Ltd Dated 16.09.2019
		III				Land Instruments International	UK	A			For In Situ type /Optical Transceiver type
		III				Codei	UK	A			For In Situ type /Optical Transceiver type
		III				Durag Industrie Elektronik GmbH & Co KG	Germany	A			For In Situ type /Optical Transceiver type & Extractive Type
		III				Emerson Process Management	Ireland	A			For In Situ type /Optical Transceiver type
		III				SICK AG	Germany	A			For In Situ type /Optical Transceiver type & Extractive Type
		III				ENEVA	UK	A			For Extractive Type Dust density analyser
12	Electrical Actuators										
12-A	Electrical Actuator (With gear box if applicable)										
		II				Antrieb Technik Pvt Ltd	Chennai	A			For low torque applications only
		II				Auma	Bengaluru	A			Model no L120,SMB,L.Y series, Gear Box T, HBC Series
		II				Limatorque	Fardabad	A			For low torque app (Up to 1000 Nm)
		II				Rotork	Bengaluru	A			For low torque app (Up to 1000 Nm) & High torque 4000 to 7000 Nm With integral starter for non critical applications
		II				Rotork Controls (India) Private Ltd	Chennai	A			
		III				Auma	Germany	A			
		III				Limatorque	USA	A			
		III				Rotork	UK	A			For low torque app (Up to 1000 Nm)
		III				Nippon gear	Japan	A			
		III				Drehmo GMBH	Germany	A			C Matic Series (DMC/DMCR)
12-B	Electrical Actuator- Non-Intrusive (With gear box if applicable)										
		I				Auma India Pvt Ltd	Bengaluru	A			Also acceptable for Field Bus based applicable

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		I			Rotork Control	Chennai	A			Upto 630Nm
		III			Flowsolve	USA	A			Also acceptable for Field Bus based applicable
		III			Bernard Controls	France	A			
12-C	Electrical actuator for ID/ED/PA Blade pitch JGV &SCOOP									
		III			Harold Beck & Sons Inc	USA	A			
		III			SIPOS Aktronik GmbH	Germany	A			
13	Electronics Transmitter (Pressure , DP and DP based Flow/Level)									
13-A	Electronics Transmitter (Pressure , DP and DP based Flow/Level)									
		III			ABB Ltd	Bengaluru	A			2600T & critical item from ABB Italy/ Their approved source;
		III			Emerson Process Management Ltd	Pawane	A			
		III			Siemens Ltd	Thane	A			Model-SITRANS P
		III			Honeywell Automation India Ltd	Pune	A			
		III			Baldora Control and Equipment Pvt Ltd	Navi Mumbai	A			PT & DPT of LD 301 Series (SMAR)
		III			Yokogawa India Limited	Bengaluru	A			EJA-E 110,430,530 SERIES & all raw material and BOI under knocked down condition (sensor assembly as a single unit) shall be sourced from M/S Yokogawa Japan
		III			M/s Endress + Hauser India Automation Instrument Pvt Ltd	Aurangabad	A			
		III			Emerson (Rosemount)	USA	A			
		III			Yokogawa	Japan	A			
		III			ABB	Germany / Italy	A			2600T & critical item from ABB Italy/ Their approved source;
		III			Siemens	France	A			Sitrans P DSIII Series
		III			Fuji Electric	France	A			FCX -AIII SERIES
		III			Fuji	Japan	A			
13-B	Electronics Transmitter -Field Bus Based (Pressure , DP and DP based Flow/Level)									
		I			ABB India Ltd	Bengaluru	A			One no of Transmitter will be sent at DDCMIS supplier for function testing of field bus communication with DDCMIS during F.A.T
		I			Yokogawa India Limited	Bengaluru	A			EJA-E 110,430,530 SERIES & all raw material and BOI under knocked down condotion (sensor assembly as a single unit) shall be sourced from M/S Yokogawa Japan
14	EQMS									
		I			SWAN	Hyderabad	A			1. Conductivity analyser, pH analyser and Temperature Transmitter will be of M/s ABB, UK. make . 2. TSS analyser will be of M/s Daeyoon, South Korea make . 3. Oil in water analyser will be of M/s TriOs, Germany make. 4. Online BOD/COD analyser will be of M/s Shimadzu, Japan make . 5. Flow meter will be of M/s Khrono Marshall, Maharashtra make 6. Data Aquisition System will be procured from Knowledge Lens, Karnataka.
15	Fiber optic cable									



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PROJECT : KODARMA TPS PHAI (2X800 MW)											
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Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	
		Note-3				U M Cables Ltd	Silvassa (Daman)	A			
		Note-3				KEC International Ltd	Mysore	A			
		Note-3				Apar Industries Limited	Valsad (Gujrat)	A			
		Note-3				HFCL	Goa	A			
		Note-3				Aksh Fibre	Bhiwadi (Raj)	A			
		Note-3				Finolex Cable Ltd	Goa	A			
		Note-3				Birla Cable Limited	Rewa	A			
		Note-3				R&M	Switzerland	A			
		Note-3				Molex	UK	A			
		Note-3				Corning	USA	A			
16	Fire alarm Panel										
		II				Toshniwal Industrial Pvt Ltd	Ajmer	A			
		II				Bosch Security system	Bengaluru	A			
		II				Notifier	USA	A			
		II				Autronica	Norway	A			
		II				Schrack	Austria	A			
		II				Edwards	Mexico	A			
		II				Shield Fire safety and security Ltd	UK	A			
		II				Jhonson Controls	Mexico	A			
17	Flame Monitoring System (Scanner)										
		I				Lucent Marcons Pvt Ltd (System Integrator of M/S Forney Corporation USA)	Noida	A			
		I				H1 Tech System & services Ltd (System Integrator of BFI Germany)	Kolkata	A			
		II				Durag India Instrumentation Pvt Ltd	Bengaluru	A			
		II				Forney Corporation	USA	A			
		II				BFI	Germany	A			
		II				Durag GmbH	Germany	A			
		II				Emerson (COEN)	USA	A			
		II				BHEL	Trichurapalli	A			
18	Flow nozzle assembly										
		I				Microprecision Product Pvt Ltd	Palwal	A			
		I				Minco India Flow Elements Pvt Ltd	Goa	A			
		I				Instrumentation Limited	Palakkad (Kerala)	A			
		I				Starmech controls (India) Pvt Ltd	Pune	A			
		II				SEIKO	Czech Republic	A			
		II				WISE Control	S Korea	A			
		II				Technomatic	Italy	A			



PROJECT : KODARMA TPS PH-I (2X800 MW)											
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CONTRACTOR:											
CONTRACT NO.:											
Sr No	Item Description	QP Inspection Category	QP No	QP submission at SCH	QP approval at SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-1)	SS Detail Sub.SCH	SS Approval SCH	Remark
19	Flue Gas Analyser (CO)	III				Forbes Marshall Pvt Ltd	Pune	A			For In situ type CO analyser
		III				ICE (Asia) Pvt Ltd	Mumbai	A			For In situ type CO analyser 1. CO analyser from Protea UK 2. Other components like, Mounting Flanges, tubing, fittings, junction boxes, air purging system, calibration cylinders & cables will be supplied by ICE (Asia) Pvt Ltd 3 Pl refer Note-7
		III				Sick India Pvt Ltd	Mumbai	A			For In Situ Type / CO analyser from SICK AG & Other components like ,Protection tube ,Flanges, tubing, fittings, junction boxes, solenoid valves & calibration cylinders will be supplied by M/S Sick India Pvt Ltd
		III				Emerson Process Management Ltd	Pawane	A			For M/S Emerson Germany/ USA make Analyser
		III				Codel	UK	A			
		III				Land Instruments International	UK	A			
		III				Sick AG	Germany	A			For In Situ Type
		III				Environnement SA	France	A			For Hot Extractive
		III				Fuji Electric	Japan	A			
		III				Servo max Group	UK	A			
		III				Siemens	Germany	A			
20	Flue Gas Analyser (CO2,SO2 and Nox)	III				Sick India Pvt Ltd	Mumbai	A			For In Situ Type SO2 analyser 1. Analyser will be from Sick AG Germany 2. Other components like ,Whether proof covers ,flanges ,purge air unit ,junction boxes ,cables ,PC ,remote display ,gas cylinders shall be supplied by M/s Sick India Pvt Ltd
		III				Emerson Process Management Ltd	Pawane	A			For M/s Emerson Germany/ USA make Hot Extractive SO2, NOx Analyser
		III				Environnement SA	France	A			For Hot Extractive
		III				Fuji Electric	Japan	A			Hot Extractive Type For SO2 & Nox
		III				Siemens	Germany	A			Hot Extractive Type For SO2 & Nox
		III				Yokogawa Electric Corporation	Japan	A			IR-400 Series (Hot Extractive Type For CO2, SO2 & NOx)
		III				Servo max Group	UK	A			Hot Extractive Type For SO2 & Nox
		III				Sick AG	Germany	A			Hot Extractive Type For CO2, SO2 & NOx and In situ type for SO2 analyser
21	Flue Gas Analyser O2 Analyser (HT)	III				SECO	Chennai	A			
		III				Marathon Monitor	USA	A			
		III				Servo max Group	UK	A			
22	Flue Gas Analyser {O2 Analyser (LT)}	III				Sick India Pvt Ltd	Mumbai	A			For In Situ Type 1. Analyser will be from Sick AG Germany 2. Other components like ,Whether proof covers ,flanges ,purge air unit ,junction boxes ,cables ,PC ,remote display ,gas cylinders shall be supplied by M/s Sick India Pvt Ltd

PROJECT : KODARMA TPS PH-I (2X800 MW)											
PACKAGE : EPC PACKAGES											
CONTRACTOR:											
CONTRACT NO. :											
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
		III				Analyser Instruments Co Pvt Ltd	Kota	A			For In Situ Type 1.Main parts like Sample probe & Analyser will be supplied by M/s Enotec Germany. 2. Other components like auto calibration unit ,probe protector, enclosure panel & calibration kit will be supplied & integrated M/s AIC kota. 3.PI refer Note-07
		III				Emerson Process Management Ltd	Pawane	A			For In Situ Type For M/s Emerson USA make Analyser
		III				ABB	Bengaluru	A			For In Situ Type For M/s ABB UK make Analyser
		III				Yokogawa India	Bengaluru	A			For In Situ Type For M/s Yokogawa Japan make Analyser
		III				Enotech GmbH	Germany	A			For In Situ Type
		III				Ametek	USA	A			For In Situ Type
		III				Yokogawa Electric Corporation	Japan	A			For In Situ Type
		III				Servo max Group	UK	A			For In Situ Type
		III				Sick AG	Germany	A			For In Situ Type
23	Continuous Emission Monitoring system										
		I				Horiba India Pvt ltd	Pune	A			Approval conditions as per approval letter no - CQA/NTPC Mauda-II / H-321 / M/S Horiba India Pvt Ltd Dated 03.10.2019
		I				Yokogawa India Ltd	Bengaluru	A			1. SO2,NOx & CO2 Analyser will be from M/S Yokogawa Electric Corporation Japan . 2.Other Conditional as per approval letter no Ref. No -CQA/BA RH-I / Y-023/ M/s Yokogawa India Ltd dated 21.05.2020
		I				Adage Automation Pvt Ltd.	Goa	A			For M/s Siemens Germany make SO2,NOx & CO2 Analysers
											Approved only for Dilution Extractive Technique 1)Analyser (SO2,NOx,CO,CO2,Mercury), sampling probe ,sample handling system ,umbilical cord etc to be supplied from M/S Thermo Fisher USA. 2) Other BOI shall be as per LOA approved sources
		I				Emerson Process Management India Pvt Ltd	Pawane	A			For M/s Emerson Germany make SO2,NOx & CO2 Analysers other conditions as per approval letter.
		I				Analyser Instruments Co Pvt Ltd	Kota	A			Analysers from Fuji Japan & other BOI shall be as per LOA approved sources
											Hot Extractive Type / 1.Multipoint gas Analyzers MIR-9000 for SO2, NOx,CO2 & CO ,Probe ,Nafyon drier & heater for drier will be of M/S Environment SA France make. 2. Other components shall be as per the approval letter ref no CQA/NTPC Telangana/E-335/M/Envoirement SA India dated 12.02.2019
24	Furnace Flame viewing system (High Temperature CCTV Components)										
		III				Sertel Electronics Pvt. Ltd.	Chennai	A			Approved for Visible type only
		III				Hi Tech System and Service (System Integrator of M/S Lenox USA)	Kolkata	A			1.M/S Lenox USA Make System 2.PI refer Note-07



PROJECT : KODARMA TPS PH-I (2X800 MW)

PACKAGE : EPC PACKAGES

CONTRACTOR:

CONTRACT NO. :

REVISION NO. : 00
DATE : 19.05.2023
SUB SECTION: C&I

LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL

Sr No	Item Description	QP Inspection Category	QP No	QP submiss ion SCH	QP approv al SCH	Proposed Sub Supplier	Country	SS Approval_Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
		III				Durag India Instrumentation Pvt Ltd	Bengaluru	A			1. Complete Camera Assembly, IRIS Control etc. from Durag Germany 2. Other Component like chiller, vedio monitor, OFC ,panel from M/S Durag Approved sources
		III				TLT Engg Pvt. Ltd. (System Integrator of M/S Diamond Power USA/ Sweden make system)	Kolkata	A			1. M/S Diamond Power USA/ Sweden make system 2. PI refer Note-07
		III				Toshniwal Industries (System Integrator of M/S Mirion UK make system)	Ajmer	A			1. M/S Mirion UK make system 2. PI refer Note-07
		III				Diamond Power	USA / Sweden	A			
		III				Durag GmbH	Germany	A			D-VTA-201
		III				Lenox	USA	A			
		III				Mirion	UK	A			
		III				Piper GmbH	Germany	A			
		III				Sabota GmbH	Germany	A			
25	H2 Gas Analyser										
		I				ABB India Ltd	Bengaluru	A			M/s ABB Germany /UK Make analyser
		I				Adage Automation Pvt. ltd	Goa	A			1. M/s Siemens, Garmany (Calomat 6) Make analyser 2. PI refer Note-07
		I				Yokogawa India ltd	Bengaluru	A			M/s Yokogawa Japan (Gas Density based) Make analyser
		I				SIEMENS	Gurugram	A			M/s Siemens, Garmany (Calomat 6) Make analyser
		III				GE Sensing EMEA	Ireland	A			Conductivity based
		III				ABB	UK	A			
		III				Emerson (Rosenount)	USA	A			
		III				Environment One Corporation	USA	A			Conductivity based
26	HEA ignitor										
		I				Durag India Instrumentation Pvt Ltd	Bengaluru	A			M/S Durag Germany make HEA Ignitor
		I				Hindustan Thermometers	Ambala	A			Conditional as per approval ref no 01/CQA/0270-102 dated 17 09 2012. Spark tip of their own make is also acceptable
		I				Fives combustion System Pvt Ltd	Vadodara	A			
		I				Boiler control Pvt Ltd	Pudukottai (Tamilnadu)	A			Approved for Aux Boiler package only
		III				Unison Industries	USA	A			
		III				Durag GmbH	Germany	A			
		III				Ignition system INC	USA	A			
		III				Test SPA	Italy	A			
27	High Temp. cable (PTFE/FEP)										
		II				Thermocables	Hyderabad	A			
		II				Tempsons	Udaipur	A			
		II				Habia cables	Sweden	A			
		II				Thermo Electrica BV	Netherland	A			
		II				Lapp cables	Germany	A			
		II				Kerpen cables	Germany	A			
		II				TEW & C	USA	A			
28	Impulse Pipes/Tubes										
		II				Mafrashitra Seamless	Raigarh	A			For CS Pipes only
		II				Ratnamani Metals and Tubes	Gandhinagar	A			For SS only.
		II				Heavy Metals and Tubes	Gandhinagar	A			For SS & CS only.
		II				ISMT	Ahamadnagar	A			For CS/ AS upto Gr.22 Pipes only
		II				Nippon Steel & Sumitomo Metals corporation	Japan	A			
		II				TPS Tecnitube	Germany	A			
		II				Veluric & Manessmann	Germany	A			



PROJECT : KODARMA TPS PH-I (2X800 MW)
PACKAGE : EPC PACKAGES
CONTRACTOR:
CONTRACT NO :

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PROJECT : KODARMA TPS PHII (2X800 MW) PACKAGE : EPC PACKAGES CONTRACTOR:  CONTRACT NO. :										LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL					REVISION NO : 00 DATE :13.05.2023 SUB SECTION: C&I
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-1)	SS Detail Sub.SCH	SS Approval SCH	Remark				
		II				Trouvay and Cauvin	France	A							
		II				Sandvik	Sweden	A			For SS only				
		II				REMI Edelstahl Tubulars Ltd	Palghar	A							
29	Instrument Cables (F,G & T/C Cables)														
		Note-2				Goyolene Fibers (India) Pvt Ltd	Silvassa	A			F&G Type Cable				
		Note-2				Tensens Instruments Ind Pvt Ltd	Udaipur	A							
		Note-2				Havells India	Alwar	A			F Type Cable				
		Note-2				Paramount Communication Ltd	Khushkhera	A							
		Note-2				Polycab	Daman	A							
		Note-2				Delton	Faridabad	A							
		Note-2				KEI	Bhivadi (Raj)	A							
		Note-2				Elkey Telelinks	Faridabad	A							
		Note-2				CORDS	Kaharani	A							
		Note-2				CORDS	Bhivadi	A							
		Note-2				Nico	Kolkata	A							
		Note-2				Universal Cable	Sana	A							
		Note-2				Thermocables	Hyderabad	A							
		Note-2				Gupta Power Infrastructure Ltd.	/Mahboobnagar								
		Note-2				CMJ	Khurda	A							
		Note-2				Advance Cables Pvt Ltd	Faridabad	A							
		Note-2				Genscab Industries Ltd	Bengaluru	A			F&G Type Cable				
		Note-2				Apar Industries Limited	Bhivadi (Raj)	A			F&G Type Cable				
		Note-2				Suyog Electricals Ltd	Valsad	A			F&G Type Cable				
		Note-2				Special Cables Pvt Ltd	Halol (Gujrat)	A							
		Note-2				T C Communication	Rudrapur	A							
		Note-2				TEW & C	Ghaziabad	A							
		Note-2				Habia cables	USA	A							
		Note-2				Kerpen cables	Sweden	A							
		Note-2				Lapp cables	Germany	A							
		Note-2				Thermo electria Bv	Netherland	A							
30	Intelligent Battery charger 24V DC / DCDB/BHMS														
		II				Chabbi Electricals	Jalgaon	A			Rectifier module, Controller module and Battery Health monitoring system shall be of M/s Vertiv make				
		II				Eltek SGS Pvt Ltd	Gurugram	A							
		II				Vertiv Energy Pvt.ltd	Pune	A							
31	Large Video Screen (LED Based)														
		I				Pyrotech Electronics Pvt Ltd	Udaipur	A							
		I				Delta India Electronics Pvt Ltd	Gurugram	A							
		I				Barco Electronics system (P) Ltd	Noida	A							
		I				Planner System Inc	USA	A							
32	Level switch- Conductivity type														
		II				Raman Instruments (System integrator of Delta Morbey/ Emerson Mobrey /Solartron -Mobrey)	Delhi	A			1.M/S Emerson (Morbey) UK system 2.PI refer Note-07				
		II				HI Tech System & services Ltd (System Integrator of Levelstate systems Ltd ,UK)	Kolkata	A			1. M/S Levelstate UK System. Vessel from M/s Hi Tech 2.PI refer Note-07				
		II				BHEL	Trichurapalli	A							
		III				Emerson -Mobrey (Solartron mobrey)	UK	A							
		III				Levelstate Systems Ltd	UK	A							
		III				Yarway	USA	A							
33	Local Instrument Enclosure/Rack														
		I				Pyrotech Electronics Pvt. Ltd	Udaipur	A			BOI from LOA approved sources				
		I				Sajas electrical	Trichurapalli (Tamilnadu)	A			BOI from LOA approved sources				

PROJECT : KODARMA TPS PH-II (2X800 MW)											
PACKAGE : EPC PACKAGES											
CONTRACTOR:											
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Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
		I				Prammen	Pudukottai (Tamilnadu)	A			BOI from LOA approved sources
		I				Chemim C&I Pvt Limited	Puducherry	A			1- BOI from LOA approved sources 2.Fabrication at M/s LUFT tech India 3- Painting at M/s Supreme Coater & Fabricator
34	Master Slave Clock System					Signals and Systems Pvt. Ltd. (SANDS)	Chennai	A			
		I				Masibus	Gandhinagar	A			
		I				Serel Electronics Pvt. Ltd.	Chennai	A			
		II				Hopf Elektronik GmbH	Germany	A			
		II				Hafway	USA	A			
		II				Mein Berg	Germany	A			
		II				Moser Baer AG	Switzerland	A			
35	Mercury Analyser										
		I				Analyser Instrument Co. Pvt Ltd (AIC)	Kota	A			1. Mercury Analyzer from PS Analytical UK 2.System integration & supply of components like, Enclosure with AC, calibration cylinders, PC will be done by M/s Analyser Instrument Co. Pvt Ltd (AIC) Kota. 3.Pl refer Note-07
		III				Environment SA India Pvt Ltd	Navi Mumbai	A			1-Mercury analyzer with accessories will be from Mercury instruments GmbH Germany 2- Other components like, sample line between probe to mercury analyzer will be supplied by M/s Environment SA India Pvt Ltd .
		III				Thermo Fisher Scientific India Pvt Ltd	Pune	A			1. Mercury Analyser shall be from Thermofisher USA 2. Other approval conditions are as per approved letter ref no 01/CQA/9578-001/Thermofisher dated 09/12/2016
		III				Durg India Instrumentation Pvt Ltd	Bengaluru	A			Analysar from M/s Vereva Umwelt Germany
		III				Mercury Instruments GmbH	Germany	A			
		III				SICK AG	Germany	A			
		III				Thermofisher	USA	A			
		III				Lumax	Russia	A			For AAQMS System
36	PA System (IP Based)										
		III				BNA Technology Consulting Ltd.	Bengaluru	A			BOI shall be from LOA approved sources.
		III				Armteel	Russia	A			
		III				Zenitel	Norway	A			1.PA system active component , Proprietary item will be Zenitel Norway make 2. Other components & BOI shall be from LOA approved sources
		III				Commend International GMBH	Austria	A			note-7
36A	PA System (IP Based)/System Integrators										For M/s Armteel Russia system
		III				Willstrong Solutions Pvt. Ltd	Greater Noida	A			Approval conditions as per approval letter no Patrau-QA/9585-001-102/V/A-Willstrong Dated: 21.12.20
		III				Toshniwal Industries Pvt ltd	Ajmer	A			For M/s Commend Austria make system
		III				Aishan Technologies Pvt Ltd	Bengaluru	A			For M/s Zenitel Norway make system
		III				Haritasa Checkmate Electronics Pvt Ltd	Bengaluru	A			For M/s Commend Austria make system



PROJECT : KODARMA TPS PHFI (2X800 MW)

PACKAGE : EPC PACKAGES

CONTRACTOR:

CONTRACT NO :

REVISION NO : 00
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PROJECT - KODARMA TPS PHII (2X800 MW)										
PACKAGE - EPC PACKAGES										
CONTRACTOR:										
CONTRACT NO :										
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-1)	SS Detail Sub.SCH	SS Approval SCH
37	PLC System	III				Netware Computer Pvt Ltd	New Delhi	A		
						Emerson Automation solution				
		I				Intellegent platforms Pvt Ltd	Bengaluru	A		
		I				ABB India Ltd	Bengaluru	A		
		I				Schneider Electric system india Pvt Ltd	Chennai	A		
		I				Rockwell	Sahibabad	A		
		I				Siemens	Nasik	A		
		I				Honeywell	Pune	A		
		I				Schneider Electric India Pvt Ltd	Bengaluru	A		
		I				Ladder Automation Solution Pvt Ltd	Gurugram	A		
		I				Virtual Automation	Ranga Reddy (Telangana)	A		
		I				Cotmac Electronics Pvt Ltd	Pune	A		
37-A	PLC System Integrators	I				Tech-Masters	Hyderabad	A		
		I				Powertech Switchgear (I) Pvt Ltd	Sonepat	A		
		I				Unity Industrial Automation Pvt Ltd	Delhi	A		
		I				EMCONS	Ranchi	A		
		I				Divya Engineers	Chennai	A		
		I				M D Industries	Vadodara	A		
		I				Velox automation	Surat	A		
		I				Vision Compel	Kolkata	A		
		I				Adaptive Engineering Private Limited	Ahmedabad	A		
		I				Greenwave Solutions Private Limited	Kolkata	A		
		I				Dreantz Automation	Ghaziabad	A		
		I				Creative Robotics	Ghaziabad	A		
		I				Kruni Techno Engineer Pvt Ltd	Chhapraula (GB Nagar	A		
		I				EDS Instruments & Systems Pvt Ltd	Chennai	A		
		I				Delsys Automation Technologies Pvt Ltd	Chennai	A		
		I				Hindustan Controls and Equipment Ltd	Kolkata	A		
		I				Volkraft Engineering And Consultant (P) Ltd	Kolkata	A		
		I				SSM Infotech Solutions Pvt Ltd	Surat	A		
		I				Sun Industrial Automation & Solutions	CHENNAI	A		
		I				ARTEE FLOW CONTROL PVT LTD	ANKLESHWAR	A		
		I				CSS AUTOMATION PVT LTD	KOLKATA	A		
		I				ARMAX AUTOMATION PVT LTD	BANGALORE	A		
		I				KAIZEN AUTOMATION	AHMDABAD	A		
I				ELECON PERIPHERALS LIMITED	ANAND	A				
38	Pneumatic Actuator Regulating (Power Cylinder HAD,CAD SADC & Burner Tilt)									
		I				Instrumentation Limited	Palakkad (Kerala)	A		
		I				Kelton	Cochin (Alleppy)	A		



PROJECT : KODARMA TPS PH-I (2X800 MW)

PACKAGE : EPC PACKAGES

CONTRACTOR:

CONTRACT NO :

REVISION NO : 00
DATE : 19.05.2023
SUB SECTION: C&I

PROJECT : KODARMA TPS PH41 (2X800 MW)											
PACKAGE : EPC PACKAGES											
CONTRACTOR:											
CONTRACT NO. :											
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
		I				SMC Corporation India Private Ltd	Noida	A			Up to Bore size 12 inches
		I				IMI Norgren Herion Pvt Ltd	Noida	A			
		II				Dong Woo Valve Control Co. Ltd	S.Korea	A			
		II				Shin Hwa Engineering Co. Ltd	S.Korea	A			
39	Radar type level transmitter					Limaco	Russia	A			High Frequency Type
		III				Emerson Process Management Ltd	Pawane	A			For M/s Emerson Singapore make
		III				Endress & Houser	Aurangabad	A			
		III				SIEMENS	Canada	A			
		III				B M Technology	Italy	A			For Non Contact type
		III				Magnetrol	Belgium	A			
		III				ABB	USA	A			K-Tech Brand
		III				Endress & Houser	Germany	A			
		III				Saab Rosemount	Sweden	A			Rosemount 3300 series for GW Radar & 5600 Series for Non-Contact type
		III				Emerson Process Management	Singapore	A			
		III				Endress & Houser	Germany	A			
		III				Vega Grieshaber KG	Germany	A			
40	Short Term Fire Proof cable					nVent Solutions limited	UK	A			
		III				Wrexham Mineral	UK	A			
		III				KME	Italy	A			
41	SWAS (Sampling Handling System and Dry Panel)										
		I				Emerson Process Management Ltd	Navi Mumbai	A			Analysers and Other BOI Components from LOA agreed source
		I				Forbes Marshall	Pune	A			Analysers and Other BOI Components from LOA agreed source
		I				SEPL	Pune	A			Analysers and Other BOI Components from LOA agreed source
		I				YOKOGAWA INDIA LTD	Bangalore	A			Analysers and Other BOI Components from LOA agreed source
42	Water Analyser (Chloride, Conductivity, Dissolved Oxygen,pH, Hydrazine, Concentration , Phosphate, Silica, Sodium,Turbidity, Total Iron, Degassed Cation Conductivity)										
		III				Emerson Process Management Pvt Ltd	Pawane	A			For Conductivity,pH, Dissolved Oxygen, Turbidity
		III				Mettlet Toledo India Pvt Ltd	Vasai	A			For pH Analyser (1. PH analyser from M/S Mettler Toledo GmbH Switzerland 2. Other components like, Housing, Panel mounting kit, Tubing 's & easy clean mechanism will be supplied by M/s Mettler Toledo India Pvt Ltd)
		III				Endress Hauser India Pvt. Limited	Mumbai	A			For pH Analyser (1. pH sensor with cable , analyser ,retract & cleaning assembly , electrolyte reservoir (As applicable) will be supplied from Principals of M/S Endress Hauser India Pvt. Limited. 2. Other components like, Flow through assembly shall be supplied from M/S Endress Hauser India Pvt. Limited approved sources.)
		III				Thermo Fisher Scientific	USA	A			For Chloride,Dissolved Oxygen,Hydrazine



PROJECT : KODARMA TPS PH-I (2X800 MW)
PACKAGE : EPC PACKAGES
CONTRACTOR:
CONTRACT NO :

REVISION NO : 00
DATE : 19.05.2023
SUB SECTION: C&I

PROJECT : KODARMA TPS PH4I (2X800 MW) PACKAGE : EPC PACKAGES CONTRACTOR : CONTRACT NO :										LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL					REVISION NO : 00 DATE :19.05.2023 SUB SECTION: C&I	
Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark					
		III				ABB	UK	A			For Chloride Dissolved Oxygen,Hydrazine, Phosphate, Silica,Sodium,Turbidity					
		III				Hach	USA	A			For Conductivity, pH,Concentration, Phosphate, Silica, Turbidity					
		III				ABB	USA	A			For Conductivity, pH					
		III				Yokogawa	Japan	A			For Conductivity					
		III				Hach	Switzerland	A			For Dissolved oxygen, Hydrazine, Silica,Sodium					
		III				Yokogawa	Japan	A			For pH					
		III				Eutech Instrument PTE Ltd	Singapore	A			For Silica					
		III				Orion	USA	A			For Sodium					
		I				METTLER TOLEDO INDIA PVT LTD	Mumbai	A			For Chloride Analyser					
		III				Endress & Houser	Aurangabad	A								
		III				Emerson Process Management Ltd	Pawane	A			For M/s Emerson Singapore make					
		III				Yokogawa	Bengaluru	A			Make Yokogawa japan and calibration at Yokogawa Bangalore					
		III				ABB	Bengaluru	A			For M/s ABB Germany make					
		III				WIKA Instruments India Pvt Ltd	Pune	A			For M/s WIKA Germany make Model no T-32					
		III				Honeywell Automation India Ltd	Pune	A								
		III				Yokogawa	Japan	A								
		III				Moore	USA	A								
		III				M System co Ltd	Japan	A			Model No-B3HU-0					
		III				Emerson	U.S.A/Singapore/Germany	A								
		III				ABB	Germany	A								
		III				Emerson Process Management	Germany	A								
43-B	Temp Transmitter -Field Bus based Single/Dual Input															
		I				ABB India Ltd	Bengaluru	A			One no of TT will be available at DCS supplier for function testing of field bus communication with DCS during FAT					
44	Turbine supervisory Instruments along with vibration analysis system.															
		I				GE	Pune	A			For GE Bentley, USA make system					
		I				Meggitt India Pvt ltd	Bengaluru	A			For Meggitt (Vibrometer) Switzerland make system					
		I				Forbes Marshall	Pune	A			For Shinkawa Japan make system					
		II				GE BENTLY	USA	A								
		II				SHINKAWA	JAPAN	A								
		II				MEGGITT	Switzerland	A								
45	Ultrasonic Type Flow Meter (for Stack)															
		III				Sick India Pvt ltd	Mumbai	A			For Sick AG Germany make					
		III				Sick AG	Germany	A								
		III				Durag	Germany	A								
		III				Teledyne	USA	A								
46	Ultrasonic type level Transmitter															
		III				EIP Enviro	Noida	A			1-Ultrasonic level Tx shall be BM Technology Italy make					
		III				E & H	Aurangabad	A			2-Required mounting arrangement , Testing, Calibration shall be carried out at M/s EIP Works.					



PROJECT : KODARMA TPS PH-I (2X800 MW)

PACKAGE : EPC PACKAGES

CONTRACTOR:

CONTRACT NO. :

LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL

REVISION NO. : 00

DATE : 19.05.2023

SUB SECTION: C&I

Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-1)	SS Detail Sub.SCH	SS Approval SCH	Remark
		III				Emerson Process Management Ltd	Pawane	A			Complete Intrument Transmitter & Probe to be procured from Mobrey UK , only integration & configuration at Pawane works
		III				BM Technology	Italy	A			
		III				Siemens Miltronics	Canada	A			
		III				Nivelco Process Control	Hungary	A			
		III				E & H	Germany	A			
		III				HAWK Measurement PTY Ltd	Australia	A			
47	UPS With ACDB	Note-5				Verive Energy Pvt Ltd	Pune	A			Upto 125 KVA for 1 phase and 300 KVA for 3 Phase
		Note-5				Verive Energy Pvt Ltd	Mumbai	A			Upto 160 KVA
		Note-5				Hitachi Hrel Power Electronics Pvt Ltd	Gandhinagar	A			Upto 200 KVA,
		Note-5				Fuji Electric Consul Neowatt Private Limited	Pune	A			Up to 100 KV A single phase
		Note-5				KELTRON	Trivendrum	A			
		Note-5				Merlin & Gerin	France	A			
		Note-5				Guttor	Switzerland	A			
		Note-5				AEG	Germany	A			
		Note-5				Fuji Electric	Japan	A			
48	Vibration Monitoring System	II				Sensonics Technology India	Kundli	A			For Sensonic UK system
		II				BHEL	Bengaluru	A			1. Imported items like Vibration Monitors, Cross Connection Cables, Buffered Output Modules, and Piezoelectric Vibration Sensors, Eddy Current type Proximity Probe, Extension Cable and Signal Conditioner will be procured from Valmet Automation, Finland. 2. Indigenous items like Communication cables, networking components, blank panels, TB, OWS will be procured from NTPC approved sources.
		II				IRD Mechanalysis Ltd	Thane	A			Vibration sensors will be sourced from M/s Hansford UK ,however brand name of IRD and its logo is acceptable with suitable traceability of M/s Hansford ,UK.
		II				Forbes Marshall Pvt Limited	Pune	A			VMS hardware , Sensors, extention cables shall be shinkawa Japan make 2. All other BOI shall be from LOA agreed sources
		II				GE	Pune	A			For GE Bentley , USA Make
		II				Rockwell Automation	Sahibabad	A			For Rockwell USA make
		II				SKF	Pune	A			For SKF USA make
		II				Imageneous Engineering Pvt Ltd	Vadodara	A			1-For Meggitt Switzerland make 2- Refer note 7
		II				Shinkawa	Japan	A			
		II				GE	USA	A			Bentley Niveda brand
		II				Meggitt	Switzerland	A			
		II				Sensonic Limited	UK	A			
49	Wireless Solution (Microwave Tower Communication)	I				L&T Technology Services (LTTS)	Bengaluru	A			1- Wireless Product (Access Point, Antenna) shall be M/s Cambium UK Make 2- Other Item like Switch, Cat-6 Cable can be supplied from M/s LTTS approved sources meeting technical requirements.



PROJECT : KODARMA TPS PH-I (2X800 MW)

PACKAGE : EPC PACKAGES

CONTRACTOR:

CONTRACT NO :

REVISION NO : 00
DATE : 19.05.2023
SUB SECTION: C&I

LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL

Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
		I				Lotus wireless technologies India Pvt Ltd	Visakhapatnam	A			
		I				Sheetal Wireless Technologies Pvt Ltd	Pune	A			
		III				Proxim Wireless Corporation	USA	A			BOI shall be as per approval letter
50	Field Bus Cable/ Profibus Cable- PA & DP type										
		I				LAPP India Pvt Ltd	Bangalore	A			
51	Field bus components (Field bus modules ,segment protector ,surge protector & SS JB)										
		III				Phoenix Contact Inc	USA	A			Materiall will be allowed to dispatch from the vendor works as CAT-III item ,however all material except SS junction box will be available at DDCMIS supplier works for functional testing .
		III				Pepperl + Fuchs Pte Ltd	Singapore	A			Materiall will be allowed to dispatch from the vendor works as CAT-III item ,however all material will be available at DDCMIS supplier works for functional testing .
52	Stockyard Management System(Including 3D profiling scanner ,Thermal Imaging Camera, RTK GPS)										
		III				TSA	Brazil	A			For 3D profiling / Tripple-IN Germany make
						EIP Enviro	Noida	A			For 3D profiling / 1-Tripple-IN Germany make Laser Scanner and RPU along with software from TSA Brazil inline with the M/s TSA Letter. 2- Other item like ethernet cable, Ethernet Switch, Junction Box required for execution of 3D stockpile management system can be supplied by EIP Enviro
53	Perimeter Intrusion Detection System										
		III				Sensar	Canada	A			
54	Radar based Perimeter Surveillance System										
		III				Magos System Ltd	Israel	A			Third Party "Cyber Penetration report " shall be provided along with material TC/COC
55	Thermal Camera (PTZ)										
		III				FLIR Commercial Systems INC	USA	A			

Main Contractor approved sources (Note-12)

MC-1	Ammonia Analyser	III				Main Contractor Approved Sources					
MC-2	Ammonia leak detector	III				Main Contractor Approved Sources					
MC-3	Air Filter Regulator	III				Main Contractor Approved Sources					
MC-4	Arenometer	III				Main Contractor Approved Sources					
MC-5	Annunciator	III				Main Contractor Approved Sources					
MC-6	Battery Health Monitoring System	III				Main Contractor Approved Sources					
MC-7	Biofouling/ Deposit Monitor	III				Main Contractor Approved Sources					
MC-8	Coal bunker Level monitor	III				Main Contractor Approved Sources					
MC-9	Compression Fittings(SS)	III				Main Contractor Approved Sources					
MC-10	Condensing Pots	III				Main Contractor Approved Sources					
MC-11	Conduits /Pipe (GI)	III				Main Contractor Approved Sources					
MC-12	Conduits lead coated (Flexible)	III				Main Contractor Approved Sources					
MC-13	Copper tubing/Brass connectors	III				Main Contractor Approved Sources					
MC-14	Coriolis Type Mass Flow meter	III				Main Contractor Approved Sources					
MC-15	Coupling /Interposing Relays	III				Main Contractor Approved Sources					
MC-16	Density Indicator	III				Main Contractor Approved Sources					
MC-17	Desk for OWS/EWS/Printer/Server	III				Main Contractor Approved Sources					
MC-18	Digital Indicators	III				Main Contractor Approved Sources					



PROJECT : KODARMA TPC PH-I (2X800 MW)

PACKAGE : EPC PACKAGES

CONTRACTOR:

CONTRACT NO. :

LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL

REVISION NO. : 00

DATE : 19.05.2023

SUB SECTION: C&I

Sr No	Item Description	QP Inspection Category	QP No	QP submiss ion SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
MC-19	Dust Sensor	III				Main Contractor Approved Sources					
MC-20	Dew point sensor/meter (H2)	III				Main Contractor Approved Sources					
MC-21	Flow Gauge	III				Main Contractor Approved Sources					
MC-22	Flow Indicator cum Totaliser	III				Main Contractor Approved Sources					
MC-23	Flow Switch	III				Main Contractor Approved Sources					
MC-24	FRP Junction Box	III				Main Contractor Approved Sources					
MC-25	Furniture for control Room(Chair, Almira, Lock)	III				Main Contractor Approved Sources					
MC-26	Furnace exit gas temp probe	III				Main Contractor Approved Sources					
MC-27	Graphic Interface Unit	III				Main Contractor Approved Sources					
MC-28	Hand Held Calibrator	III				Main Contractor Approved Sources					
MC-29	Hart Management System	III				Main Contractor Approved Sources					
MC-30	Humidistat / Thermostat / Gyserstat / Airstat	III				Main Contractor Approved Sources					
MC-31	Instant Corrosion Rate Monitor & Portable Corrosion Meter	III				Main Contractor Approved Sources					
MC-32	Impact head type flow element	III				Main Contractor Approved Sources					
MC-33	Instrument Tube Fittings (Air)	III				Main Contractor Approved Sources					
MC-34	Instrument Valve	III				Main Contractor Approved Sources					
MC-35	IR Detector	III				Main Contractor Approved Sources					
MC-36	KVM Switch/Matrix KVM Switch	III				Main Contractor Approved Sources					
MC-37	Level gauge (Transparent & Reflex, Tubular type)	III				Main Contractor Approved Sources					
MC-38	Level Indicator (Float & Board type)	III				Main Contractor Approved Sources					
MC-39	Level switch - Float/Displacer Type	III				Main Contractor Approved Sources					
MC-40	Level Switch (RF Type)	III				Main Contractor Approved Sources					
MC-41	Level switch capacitance type	III				Main Contractor Approved Sources					
MC-42	Limit Switch	III				Main Contractor Approved Sources					
MC-43	Maintenance and Calibration Equipment	III				Main Contractor Approved Sources					
MC-44	Mini UPS-Type C configuration	III				Main Contractor Approved Sources					
MC-45	Orifice plate assembly	III				Main Contractor Approved Sources					
MC-46	On line carbon in Ash analyser	III				Main Contractor Approved Sources					
MC-47	Pilot Tube	III				Main Contractor Approved Sources					
MC-48	Pr/V accum/DP Gauges	III				Main Contractor Approved Sources					
MC-49	Press. DP. Vacuum Switch	III				Main Contractor Approved Sources					
MC-50	Printer (Dot Matrix/Inkjet / Laser)	III				Main Contractor Approved Sources					
MC-51	Psychrometer	III				Main Contractor Approved Sources					
MC-52	Pulse jet Controller	III				Main Contractor Approved Sources					
MC-53	Pulse Valve	III				Main Contractor Approved Sources					
MC-54	Residual Chlorine Analyser	III				Main Contractor Approved Sources					
MC-55	Rotameter	III				Main Contractor Approved Sources					
MC-56	Reverse Rotation Indicator	III				Main Contractor Approved Sources					
MC-57	Synchronising Relay	III				Main Contractor Approved Sources					
MC-58	Synchroscope	III				Main Contractor Approved Sources					
MC-59	Semaphore Indicators	III				Main Contractor Approved Sources					
MC-60	Sight Flow Indicator	III				Main Contractor Approved Sources					
MC-61	Smart Positioner	III				Main Contractor Approved Sources					
MC-62	Socket Weld Fittings	III				Main Contractor Approved Sources					
MC-63	Solenoid Valve	III				Main Contractor Approved Sources					
MC-64	Solid Mass Flow Meter	III				Main Contractor Approved Sources					
MC-65	Terminal Block (Cage and Clamp type)	III				Main Contractor Approved Sources					
MC-66	Temperature cum Humidity Indicator	III				Main Contractor Approved Sources					
MC-67	Temperature Element(Thermocouple, RTD & Thermowell)	III				Main Contractor Approved Sources					
MC-68	Temperature Gauge(With Thermowell)	III				Main Contractor Approved Sources					
MC-69	Temperature Switch	III				Main Contractor Approved Sources					
MC-70	Transducer	III				Main Contractor Approved Sources					
MC-71	Tube thickness Meter	III				Main Contractor Approved Sources					
MC-72	Voltmeter/ Waterhour Meter	III				Main Contractor Approved Sources					
MC-73	Valve manifolds	III				Main Contractor Approved Sources					
MC-74	Electric to Pneumatic Converter	III				Main Contractor Approved Sources					
MC-75	Network components	III				Main Contractor Approved Sources					
MC-76	Isolator	III				Main Contractor Approved Sources					
MC-77	ORP Monitor /Analyser	III				Main Contractor Approved Sources					



PROJECT : KODARMA TPS PHAI (2X800 MW)

PACKAGE : EPC PACKAGES

CONTRACTOR:

CONTRACT NO :

REVISION NO : 00
DATE : 19.05.2023
SUB SECTION: C&I

LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL

Sr No	Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
MC-78	Ultrasonic Type Flow Transmitter	III				Main Contractor Approved Sources					
MC-79	Chlorine Leak detector	III				Main Contractor Approved Sources					
MC-80	Density Meter	III				Main Contractor Approved Sources					
MC-81	Electro Magnetic Flow meter	III				Main Contractor Approved Sources					
MC-82	Positive displacement Type Flow Meter	III				Main Contractor Approved Sources					
MC-83	Level Scanner (3 D)for Solid Application	III				Main Contractor Approved Sources					
MC-84	Mosaic tiles /Console items	III				Main Contractor Approved Sources					
MC-85	Electrical Control Panel (UCP/Backup)	III				Main Contractor Approved Sources					
MC-86	Electrical Indicating Instruments (Mosaic Compatible)	III				Main Contractor Approved Sources					
MC-87	OWS/EWS/Server	III				Main Contractor Approved Sources					
MC-88	Bio Matrix Reader	III				Main Contractor Approved Sources					
MC-89	ANPR	III				Main Contractor Approved Sources					
MC-90	UVSS	III				Main Contractor Approved Sources					
MC-91	Comd & Control System	III				Main Contractor Approved Sources					
MC-92	Access & Controller Software	III				Main Contractor Approved Sources					
MC-93	IR LED based Illuminator	III				Main Contractor Approved Sources					
MC-94	ATB Bolboard	III				Main Contractor Approved Sources					
MC-95	Boom Barrier	III				Main Contractor Approved Sources					
MC-96	Touchless biometric recorder	III				Main Contractor Approved Sources					
MC-97	GPS Sensor based Vehicle Monitoring system	III				Main Contractor Approved Sources					
MC-98	10mp digital camera with tripod for photo capture	III				Main Contractor Approved Sources					
MC-99	2D GIS map application	III				Main Contractor Approved Sources					
MC-100	Audible alarm device	III				Main Contractor Approved Sources					
MC-101	Camera/Poles	III				Main Contractor Approved Sources					
MC-102	Card Reader	III				Main Contractor Approved Sources					
MC-103	Door Frame Metal Detector -DFMD	III				Main Contractor Approved Sources					
MC-104	Door sensor	III				Main Contractor Approved Sources					
MC-105	Egress Switch	III				Main Contractor Approved Sources					
MC-106	EM LOCK	III				Main Contractor Approved Sources					
MC-107	Emergency exit / door override switch	III				Main Contractor Approved Sources					
MC-108	Emergency Siren /Hooter	III				Main Contractor Approved Sources					
MC-109	Flap barrier	III				Main Contractor Approved Sources					
MC-110	Flash Lights for covering perimeter area for clear view from PTZ in night time	III				Main Contractor Approved Sources					
MC-111	Geo fencing	III				Main Contractor Approved Sources					
MC-112	Glass Break switch at Emergency Exit	III				Main Contractor Approved Sources					
MC-113	Guard tour	III				Main Contractor Approved Sources					
MC-114	Half Height Turnstile	III				Main Contractor Approved Sources					
MC-115	Handheld Walkie - Talkie	III				Main Contractor Approved Sources					
MC-116	HHMD	III				Main Contractor Approved Sources					
MC-117	Long Range RFID Reader	III				Main Contractor Approved Sources					
MC-118	Monitors 24 Inch Full HD	III				Main Contractor Approved Sources					
MC-119	Network Panel	III				Main Contractor Approved Sources					
MC-120	Optical Time Domain Reflector-meter (OTDR) with all accessories	III				Main Contractor Approved Sources					
MC-121	Panic Button with Audible Alarm	III				Main Contractor Approved Sources					
MC-122	Panic button/SOS button supportin SIP protocol	III				Main Contractor Approved Sources					
MC-123	RFID based Stickers	III				Main Contractor Approved Sources					
MC-124	Sliding Gate	III				Main Contractor Approved Sources					
MC-125	SMS gateway	III				Main Contractor Approved Sources					
MC-126	Storage Device (SAN/NAS/DAS) of 100 TB each	III				Main Contractor Approved Sources					
MC-127	Traffic Light	III				Main Contractor Approved Sources					
MC-128	Turnstile - half height	III				Main Contractor Approved Sources					
MC-129	SPIKE BARRIER	III				Main Contractor Approved Sources					
MC-130	CHAIN LINK FENCE	III				Main Contractor Approved Sources					
MC-131	X-ray Baggage Scanner	III				Main Contractor Approved Sources					
MC-132	Static Radio Set	III				Main Contractor Approved Sources					
MC-133	EPABX equipments	III				Main Contractor Approved Sources					

		PROJECT : KODARMA TPS PHFI (2X800 MW)					REVISION NO : 00					
		PACKAGE : EPC PACKAGES					DATE : 19.05.2023					
		CONTRACTOR :					SUB SECTION: C&I					
		CONTRACT NO :										
Sr No		Item Description	QP Inspection Category	QP No	QP submission SCH	QP approval SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
LEGENDS : L0 SYSTEM SUPPLIER / SUB SUPPLIER APPROVAL STATUS CATEGORY A - For those items proposed vendor is acceptable to Customer. To be indicated with letter "A" in the list alongwith the condition of approval, if any. 2.0 QP INSPECTION CATEGORY : CAT - I : For those items the Quality Plans are approved by Customer and final acceptance will be on physical inspection witness by Customer CAT - II : For those items the Quality Plans are approved by Customer. However no physical inspection shall be done by Customer. The final acceptance by Customer shall be on the basis of review of documents. CAT - III : For those items Quality control to be exercised as per Main contractor Quality Assurance System. The final acceptance by NTPC shall be on the basis of Certificate of Conformance (COC) by Main Contractor. UNITS/WORKS : Place of manufacturing, Place of main supplier of multi units/works. NOTE - 1 : A: Vendors to submit project specific documents as per Sub-QR requirements in case the Vendor is approved under collaboration agreement. B: In case approved sub vendor is offering product with latest model/series apart from earlier approved, vendors to submit project specific documents as per Sub-QR requirements. NOTE - 2 : For Instrument cable <= 1 KM inspection category CAT - III. For > 1 KM to <= 10 KM Inspection category CAT - II COC & FOR > 10 KM Inspection category CAT-I NOTE-3 : For Fiber Optic cable <= 10KM inspection category CAT - III & for > 10KM Inspection category CAT-II NOTE-4 : Batteries for UPS <= 10 KVA and batteries for intelligent battery charger 24 V DC <= 40 Amp inspection category CAT-III & for Batteries for UPS> 10KVA and batteries for intelligent battery charger 24 V DC > 40 Amp rating inspection NOTE-5 : UPS <= 10 KVA rating inspection category CAT-III & for > 10KVA rating inspection category CAT-I NOTE - 7 - EMPTY CABINETS, COMPUTERS, SIGNAL ISOLATOR/MULTIPLIER and TB SHALL ALSO BE ACCEPTABLE FROM OWNER ACCEPTED IN QP. IF THE TOTAL INTEGRATED PANEL AND FAT IS CONDUCTED INDGENEOUSLY NOTE-8 : For the C & I instruments mounted on the skid of the main item, instrument to be supplied as per proven practice of the manufacturer meeting the Customer technical specification requirement. NOTE-9: This item is a bought out component of main equipments like DDCMIS ,PLC,TSLCCTV ,PA system etc NOTE-10: For these controlled items, vendor shall be proposed for owner acceptance with-in the agreed contract schedule of the package NOTE-11 - Major Bought-Out-Items are to be procured from LOA approved sources & the same shall be finalized during the finalization of Manufacturing Quality Plan . MQP shall be duly vetted by OEM with their project specific authorisation letter . NOTE-12 : Main contractor approved sub vendors are acceptable those are evaluated / assessed as per Main contractor Quality Management System for vendor approval. Main contractor to inform the finally selected vendor to NTPC as soon as PO is placed for these items. In case of sub-QR Note-1 is also applicable.												

	PROJECT: KODERMA TPS Ph-II (2X800 MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL		DOC NO	
	PACKAGE: EPC PACKAGE				REV. NO.	
	Main supplier:		SUB SYSTEM: CIVIL WORKS		DATE	
	Contract No.: CS-8200-001-2				19.05.2023	
SL. NO.	ITEM	QAP / INSP. CAT	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY	REMARKS
1.	GALVANIZED STEEL STRUCTURES (LATTICE & PIPE) FOR SWITCHYARD AND TRANSMISSION LINE	I	VIJAY TRANSMISSION LTD	RAIPUR	A	
			UNITECH POWER TRANSMISSION LTD	NAGPUR	A	
			ASSOCIATED POWER STRUCTURES	VADODARA	A	
			R.S. INFRAPROJECTS PVT. LTD	SURAJPUR	A	
			NEW MODERN TECHNAMECH	MAYURBHANJ (ORRISA)	A	
			GOOD LUCK STEEL TUBES	SIKANDRABAD	A	
			UNIQUE STRUCTURES & TOWERS LTD.	RAIPUR	A	
			VATCO ELEC-POWER PVT. LTD.	NAVIMUMBAI	A	GALVANISING AT SIGMA GALVANISER NAVI MUMBAI
			R.S. INFRAPROJECTS PVT. LTD	SIKANDRABAD	A	
			ADVANCE STEEL TUBE	SAHIBABAD	A	
			SANGAM STRUCTURES LTD.	ALLAHABAD	A	
			RELIABLE SPONGE PVT LTD UNIT III	KALUNGA	A	
			VSP ENTERPRISES PVT. LTD	SONEPAT	A	
			SKIPPER LIMITED	UNIT-I: JANGALPUR, Howrah. Unit-II: ULUBERIA UNIT, Howrah. UNIT- III: BCTL, Howrah.	A	Proto type inspection at Unit-Bagnan, Howrah
			RUKMANI ELECTRICAL & COMPONENT PVT. LTD	RAIPUR	A	

	PROJECT: KODERMA TPS Ph-II (2X800 MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL			DOC NO		
	PACKAGE: EPC PACKAGE					REV. NO.		
	Main supplier:		SUB SYSTEM: CIVIL WORKS			DATE		
	Contract No.: CS-8200-001-2					19.05.2023		
SL. NO.	ITEM	QAP / INSP. CAT	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY	REMARKS		
2.	COLOUR COATED METAL DECK & CLADDING/ROOFING SHEET (COIL)	I	RICHARDSON & CRUDDAS (1972) LTD	NAGPUR	A	AL-ZN COIL FOR CLADDING		
			TATA STEEL LIMITED	KHOPOLI, RAIGARH	A			
			TATA STEEL LIMITED	SAHIBABAD	A			
			TATA BLUESCOPE STEEL LTD	JAMSHEDPUR	A			
			ESSAR STEEL LTD	PUNE	A			
3.	CHIMNEY ELEVATOR (RACK AND PINION)	I	NATIONAL STEEL & AGRO INDUSTRIES LTD	DHAR	A			
			JSW STEEL COATED PRODUCTS LTD	KALMESHVAR (NAGPUR)	A			
			JSW STEEL COATED PRODUCTS LTD	TARAPUR, BOISAR	A			
			BHUSHAN POWER & STEEL LTD	SAMBALPUR (ODISHA)	A			
			MEKASTER ENGG. & EQUIPMENT(P) LTD.	HALOL, GUJARAT	A			
4.	ELECTROFORGED GRATING	II	ALIKRAFT ENGINEERS PVT. LTD.	SAVIL (VADODARA)	A			
			AVON CRANES	GURGAON	A			
			UNIVERSAL CONSTRUCTION MACHINARY & EQUIPMENT LTD.	PUNE	A			
			INDIANA GRATINGS PVT. LTD	PUNE	A			
			KANADE ANAND UDYOG	THANE	A			
			PREMIER POWER PRODUCTS LTD	HOWRAH	A			
			BHOLA RAM STEEL PVT. LTD	PATNA	A			

	PROJECT: KODERMA TPS Ph-II (2X800 MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL			DOC NO	
	PACKAGE: EPC PACKAGE					REV. NO.	
	Main supplier:		SUB SYSTEM: CIVIL WORKS			DATE	
	Contract No.: CS-8200-001-2					19.05.2023	
SL. NO.	ITEM	QAP / INSP. CAT	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY	REMARKS	
			PINAX STEEL INDUSTRIES PVT LTD	PATNA	A		
			GREATWELD STEEL GRATING PVT. LTD	PUNE	A		
			ANKIT ELECTROGRATING	RAIPUR	A		
			SUTTATTI ENTERPRISES LTD.	PUNE	A		
			RATAN PROJECTS & ENGINEERING CO. PVT. LTD.	HOWRAH	A		
			VINFAB ENGINEERS INDIA PVT LTD. (For Galvanising) VINFAB GRATINGS (For Fabrication)	THANE	A		
5.	PROFILERS FOR COLOUR COATED METAL DECK & CLADDING/ROOFING SHEETS	II	MAIN CONTRACTOR APPROVED SOURCE	-	-		
6.	FABRIC EXPANSION COMPENSATOR (FOR CHIMNEY)	II	MAIN CONTRACTOR APPROVED SOURCE	-	-		
7.	MINERAL WOOL FOR THERMAL INSULATION (FOR CHIMNEY)	II	MAIN CONTRACTOR APPROVED SOURCE	-	-		
8.	STOP LOG GATES, TRASH RACK AND LIFTING BEAM	II	MAIN CONTRACTOR APPROVED SOURCE	-	-		
9.	HIGH PERFORMANCE MOISTURE COMPATIBLE CORROSION RESISTANT COATING SYSTEM	III	CECRI LICENSED SOURCES	-	-		
10.	BITUMEN	III	ALL GOVERNMENT REFINARIES	-	-		
11.	PTFE BEARING / ELASTOMERIC BEARING	III	MORTH / RDSO APPROVED VENDORS	-	-		
12.	CEMENT	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-		

	PROJECT: KODERMA TPS Ph-II (2X800 MW)		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL			DOC NO		
	PACKAGE: EPC PACKAGE					REV. NO.		
	Main supplier:		SUB SYSTEM: CIVIL WORKS			DATE		
	Contract No.: CS-8200-001-2					19.05.2023		
SL. NO.	ITEM	QAP / INSP. CAT	PROPOSED SUB SUPPLIER	PLACE OF MANUFACTURING	APPROVAL STATUS / CATEGORY	REMARKS		
13.	CI PIPES	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
14.	RCC PIPES	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
15.	CPVC/UPVC PIPES	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
16.	PVC WATER STOP	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
17.	POLYTHENE WATER STORAGE TANKS	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
18.	CERAMIC / VITRIFIED TILES	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
19.	PARTICLE BOARDS, PLYWOOD, MDF	III	BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-			
20.	FIRE PROOF DOORS	III	MAIN CONTRACTOR APPROVED SOURCES WITH VALID PROTOTYPE TEST REPORT FROM CBRI/CPRI/GOV. LAB.)	-	-			
21.	CONSTRUCTION CHEMICALS/ADMIXTURE, WATER PROOFING COMPOUNDS AND GROUTS	III	MAIN CONTRACTOR APPROVED SOURCE	-	-			
22.	PAINT AND PAINTING SYSTEM	III	MAIN CONTRACTOR APPROVED SOURCE	-	-			
23.	HIGH SOLID CONTENT LIQUID APPLIED URETHANE BASED ELASTOMERIC MEMBRANE FOR WATER PROOFING	III	MAIN CONTRACTOR APPROVED SOURCE	-	-			
24.	FOUNDATION BOLTS	III	MAIN CONTRACTOR APPROVED SOURCE	-	-			

LEGENDS: 1. SYSTEM SUPPLIER/SUB-SUPPLIER APPROVAL STATUS CATEGORY (SHALL BE FILLED BY NTPC) A – For these items proposed vendor is acceptable to NTPC. To be indicated with letter “A” in the list along with the condition of approval, if any. DR – For these items “Details required” for NTPC review. To be identified with letter “DR” in the list. 2. QP/INSPN CATEGORY: CAT-I: For these items the Quality Plans are approved by NTPC and the final acceptance will be on physical inspection witness by NTPC. CAT-II: For these items the Quality Plans approved by NTPC. However, no physical inspection shall be done by NTPC. The final acceptance by NTPC shall be on the basis review of documents as per approved quality plan. CAT-III: For these items the Quality control to be exercised as per Main Contractor Quality Assurance System. The final acceptance by NTPC shall be on the basis of Certificate of conformance (COC) by Main Contractor. UNITS/ WORKS: Place of manufacturing Place of Main Supplier of multi units/works.	
NOTE 1: For the items placed in CAT-III for Civil Works, the review and final acceptance shall be done by NTPC-EIC/ FQA on the basis of MTC / certificate of conformance in line with Technical Specifications/FQP.	