

SUB-SECTION–E-60

INDICATIVE VENDOR LIST

**TALCHER THERMAL POWER PROJECT
STAGE-III (2 X 660 MW)
EPC PACKAGE**

**TECHNICAL SPECIFICATION
SECTION-VI, PART-B
BID DOC NO.:CS-4540-001A-2**

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.

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- 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.

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		Project/ परियोजना : Talcher III Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब - वेडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली:SG(MECH)					DOC. NO./ दस्तावेज सं.:		
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1	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		
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		\$			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		
		\$			WAYMAN GORDAN	USA	A		CS,T11,T12,T22,T91		
		\$			BENTELER STEEL/TUBE GMBH	GERMANY	A		CS,T-11, T23, T-22, T-91 & T-92		
		\$			HEAVY METALS & TUBES LTD	AHMEDABAD	A		CS HOT FINISHED UP TO OD: 76.2 MM AND WT:12.0 MM		
		\$			PRODUCTOS TUBULARES,	SPAIN	A		CS & AS T-11, T-22, T-23, T-91		
		\$			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		
		\$			NIPPON STEEL & SUMITOMO METAL CORPORATION	JAPAN	A		CS, T-11, T-22, T23, T-91, & T-92		
		\$			BENTELER STEEL/TUBE GMBH	GERMANY	A		CS, T-11, T23, T-22, T-91 & T-92		
		\$			BHEL SSTP	TRICHY	A		CS, T-11, T-12, T-22		
		\$									
		\$			SAUZGITTER MANNESMANN PRECISION	FRANCE	A		CS(RIFILED)		
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		\$			KOBE SPECIALITY STEEL CO LTD	JAPAN	A		SS304, SS347H				
		\$			SMST	ITALY	A		SS304, 347H, SUPER 304				
		\$			TUBACEX	SPAIN	A		SS304, 347H, SUPER 304				
		\$			PASCO SPL STEEL CO.	SOUTH KOREA	A		SS304, 347H, SUPER 304				
		\$			NIPPON STEEL & SUMITOMO METAL CORPORATION	JAPAN	A		SS 304, SS347H, SUPER 304 OD UP TO 114.3 MM				
2	SEAMLESS PIPES	\$			TENNARIS GLOBAL SERVICES SA, URUGUAY	DALMINE, ITALY	A		CS & AS P-11, P-22, P-91				
		\$			TENNARIS GLOBAL SERVICES SA, URUGUAY	SILCO, ROMANIA	A		CS & AS T-11, T-22, T-91 UPTO DIA 159 MM				
		\$			TENNARIS GLOBAL SERVICES SA,URUGUAY	NKK TUBES, JAPAN	A		CS & AS T-11, T-22, T-91				
		\$			VALLOUREC & MANNESMANN TUBES	FRANCE GERMANY	A		CS & AS P-11, P-22, P-91. P-92				
		\$			TUBOS REUNIDOS INDUSTRIAL, S.L.U	SPAIN	A		CS & AS P-11, P-22, P-91				
		\$			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				

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		\$			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,	SPAIN	A		CS & AS P-11, P-12, P-22, P-91		
		\$			NIPPON STEEL & SUMITOMO METAL CORPORATION	JAPAN	A		CS & AS P-11, P-22, P-91 & P-92		
		\$			TENNARIS GLOBAL SA, URUGUAY	NKK TUBES, ITALY	A		P-91, P-22, P-11, P12, CS		

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		\$			JINDAL SAW LIMITED	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		
		\$			IBF S.P.A	ITALY	A		P-92, P-91, P-22, P-11, P12, CS		
		\$			JFE STEEL CORPORATION	JAPAN	A		P-92, P-91, P-22, P-11, P12, CS		
		\$			BHEL SSTP	TRICHY	A		CS		
		\$			BENTELER STEEL/TUBE GMBH	GERMANY	A		P-11, P-22, P-91, P-92 UP TO OD 160 MM		
		\$			RINGMILL SPA	ITALY	A		CS OD UP TO 914 MM & WT UP TO 102 MM & AS P-91		
		\$									
3	PLATES AND ROLLED SECTION	\$			INDUS STEEL	BELGIUM	A		CS-SA515 AS UP TO GR-91		
		\$			ILSENBURGER 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		
		\$			THYSSENKRUPP	GERMANY	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22		
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Package/ पैकेज : EPC

Supplier/ आपूर्तिकर्ता:

Contract No./ अनुबंध सं.:

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LIST OF ITEMS REQUIRING QUALITY PLAN

AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब - वेडर के अनुमोदन सहित मदों की सूची

SUB-SYSTEM उप-प्रणाली:SG(MECH)

S. N. क्र.सं.	Item / मद	QP/ Insp. Cat. क्वापी/ निरी. श्रेणी.	QP No./ क्वापी .सं.	QP Sub. Schedule क्वापी उप.अनुसू. ति	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)	Applicable Note
		\$			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.		
		\$			REFER TO SUB-VENDORS MENTIONED IN THE TECHNICAL SPECIFICATIONS SEC-VI, PART-B		A		(CS-IS 2062 STRUCTURAL STEEL GRADES)		
		\$			OUTOKUMPU	SWEDEN	A		SS PLATES UP TO 20 MM THK		
		\$			INDUSSTEEL	BELGIUM	A		GRADE-304,309,310,316		

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Package/ पैकेज : EPC

Supplier/ आपूर्तिकर्ता:

Contract No./ अनुबंध सं.:

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LIST OF ITEMS REQUIRING QUALITY PLAN

AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब - वेडर के अनुमोदन सहित मदों की सूची

SUB-SYSTEM उप-प्रणाली:SG(MECH)

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		\$			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		
4	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				
5	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				
		I			L&T-MHPS BOILERS PVT LTD	HAZIRA	A				

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6	SPIRAL WATER WALLS	I			BHEL	TRICHY	A				
		I			GE INDIA	DURGAPUR	A				
		I			ALSTOM	USA	A				
		I			DOOSAN	CHENNAI	A				
		I			DOOSAN VINA	VIETNAM	A				
		I			DOOSAN	SOUTH KOREA	A				
7	TUBULAR PRODUCTS(COILS & PANELS) EXCLUDING SPIRAL WALLS	I			GE INDIA	DURGAPUR	A				
		I			BHEL	TRICHY	A				
		I			ALSTOM	USA	A				
		I			DOOSAN	CHENNAI	A				
		I			DOOSAN VINA	VIETNAM	A				
		I			DOOSAN	SOUTH KOREA	A				
		I			L&T-MHPS BOILERS PVT LTD	HAZIRA	A				
8	CRITICAL PIPING /PCPI(MS, CRH, HRH, FW) AND BOILER PIPING	I			BHEL	TRICHY, THIRUMAYAM	A				
		I			GE INDIA	DURGAPUR	A				
		I			DOOSAN	SOUTH KOREA	A				
		I			BHR	GERMANY	A				
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		I			DEE DEVELOPMENT	PALWAL	A				
		I			BENTEC	USA	A				
		I			L&T PIPING CENTRE	HAZIRA	A				
		I			SEONGHWA IND CO LTD	SOUTH KOREA	A				
9	MISC HP PIPING EXCLUDING CRITICAL PIPING(CS, AS UP TO GRADE 91)	I			BHEL	TRICHY	A				
		I			GE INDIA	DURGAPUR	A				
		I			DOOSAN	SOUTH KOREA	A				
		I			BHR	GERMANY	A				
		I			DEE DEVELOPMENT	PALWAL	A				
		I			BENTEC	USA	A				
		I			L&T PIPING CENTRE	HAZIRA	A				
		I			SEONGHWA IND CO LTD	SOUTH KOREA	A				
		I			PAL ENGG	YAMUNANAGAR	A				
10	MISC HP PIPING EXCLUDING CRITICAL PIPING(CS, AS UP TO GRADE 22)	I					A		ABOVE MENTIONED PIPING VENDORS ARE ALSO ACCEPTABLE		
		I			ISGEC	YAMUNANAGAR	A		UP TO GRADE 22		
		I			UNITECH MACHINES LTD	SAHARANPUR	A		ONLY FOR CS GRADE		
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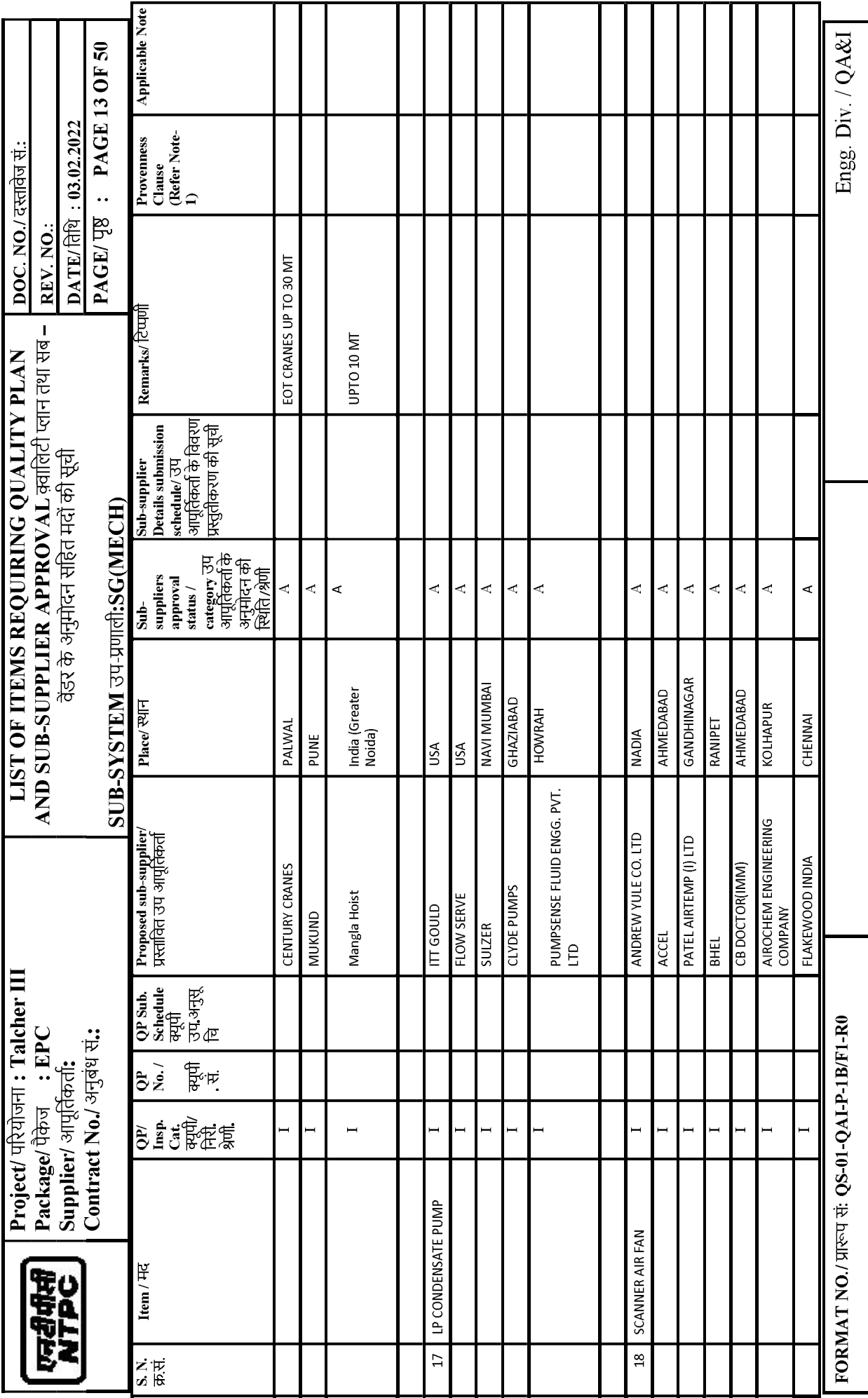
		Project/ परियोजना : Talcher III		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब – वेडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली:SG(MECH)					DOC. NO./दस्तावेज सं.:		
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		I			BEND JOINTS PVT LTD	BHOPAL	A		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	VISAKHAPATNAM	A		ONLY FOR CS GRADE		
11	MIXING SPHERES	I			GE INDIA	DURGAPUR	A				
		I			BHEL	TRICHY	A				
		I			ALSTOM	USA	A				
		I			DOOSAN	SOUTH KOREA	A				
12	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				
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13	AIR COOLED OIL GUN ASSEMBLY	I			BHEL	TRICHY	A				
		I			SIGMA POWER	TRICHY	A				
		I			DOOSAN	SOUTH KOREA	A				
14	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				
15	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		
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		I			CLYDE BERGEMANN	GERMANY	A					
		I			DIAMOND POWER SPECIALITY LTD	SCOTLAND	A					
		I			DAIEYOUNG MACHINERY	KOREA	A					
16	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			

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		I			TLT ENGG. PVT. LTD.,	MEHSANA	A					
19	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			NADI AIR TECH P LTD	CHENNAI	A					
20	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					
					BSL	UK	A					
21	QUICK ERECT FURNACE SCAFFOLDING	II			INSTANT UPRIGHT	IRELAND	A					
		II			EASTMAN IMPEX	LUDHIANA	A		CARBON STEEL SCAFFOLDING			
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				II			BSL	HARIDWAR	A					
				II			ARU/FASE	SPAIN	A					
22	METALLIC EXPANSION JOINT FOR DUCTS	I				FLEXATHERM EXPANLOW 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.)				
		I				AURORA SHAPERS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)				

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		Project/ परियोजना : Talcher III		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब - वेडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली:SG(MECH)				DOC. NO./दस्तावेज सं.:			
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		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			ANNAL VAILANKANNI ENGINEERING INDUSTRIES	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
		I			ANNAL VAILANKANNI FABRICATORS UNIT-II	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
		I			ANNAL VAILANKANNI FABRICATORS UNIT-II	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)		
		I			MECHWELL INDUSTRIES	NASHIK	A				
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SUB-SYSTEM उप-प्रणाली:SG(MECH)

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23	METALLIC EXPANSION JOINT FOR PIPES	I			METALLIC BELLOWS	CHENNAI	A		UP TO 2200 NB		
		I			LONESTAR	CHENNAI	A		UP TO 2200 NB		
		I			FLEXICON BELLOWS & HOSES	VADODARA	A		UP TO 2200 NB		
					FLEXATHERM EXPANLOW PVT LTD	VADODARA	A		UPTO 2000 NB		
24	LIGHT BONDED MINERAL WOOL	II			PUNJSTAR 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				
		II			MINSLATE 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				

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		II			JAMSHEDPUR MINERAL WOOL	JAMSHEDPUR	A				
		II			ROXUL ROCKWOOL	DAHEJ	A				
25	CLH & VLH	I			BHEL	TRICHY	A				
		I			MID AMERICA	USA	A				
		I			MANNESMANN	GERMANY	A				
		I			ITT	GERMANY	A				
		I			PIPE SUPPORTS	UK / THAILAND					
		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 SUPORTS, UK/THAILAND.		
		I			SANWA TAKI	JAPAN	A				
		I			MH	SPAIN	A				
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				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			
26	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.			
		I			LEADER VALVES LTD.	JALANDHAR	A			CC NR V UP NB 800, 150# FOR STG PKG.			
		I			BHEL	TRICHY	A						
		I			CRESCENT VALVES	MUMBAI	A			UPTO NB 300 CL 600			

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		I			VELAND VALVE CORP.	USA			GATE V/V 2-34" CL 900-4500 CAST STEEL GATE V/V 18-48" CH50-800		
		I			VELAN	UK	A		1) GLOBE V/V 1/4"-2" C14500 (2) BONNETLESS GLOBE V/V 1/2-2.5" C1150-500)		
		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 & WCG		

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		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 (FORGED) 80 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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		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 # F5 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 UPTO 2500SPL & SIZE UPTO 10" (2)CAST GLOBE VALVE (CS) CLASS UPTO 2500SPL & SIZE UPTO 3 INCH (3) FORGED GLOBE VALVE (CS) CLASS UPTO 1500 & SIZE UPTO 1" (4) FORGED GLOBE VALVE (CS) CLASS UPTO TO 800 & SIZE UPTO 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		

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		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		
27	SAFETY VALVES (SPRING TYPE)	I			DRESSER INDUSTRIES	USA	A				
		I			SAMPELL AG	GERMANY	A				
		I			TYCO (PENTAIR VALVES & CONTROLS	USA	A				
		I			FUKUI SEISAKUSHO CO LTD	JAPAN	A				
		I			RIENEKE GMBH	GERMANY			HYDRAULIC TYPE		
		I			BOPP & REUTHER	GERMANY	A		HYDRAULIC TYPE		
		I			MIWA 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		

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		I			FAINGER LESER VALVES P LTD	AURANGABAD	A		SIZE(INLET/OULET): 200/300 MM APPLICABLE TO MAX DESIGN TEMPERATURE:474 DEG C & PRESSURE:47 KG			
28	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			MIWEA CORPORATION	JAPAN	A		SIZE UPTO 65MM & UPTO 4500 CLASS			
29	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			

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30	BOILER STRUCTURE & FABRICATION ITEMS(MAIN & AUX COLUMNS, CEILING GIRDERS, BUILT-UP BEAMS, BRACINGS & BUCKSTAY), COAL BUNKER AND ESP STRUCTURE	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-CEILING 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		
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		I			INDOFAB	TRICHY			CEILING GIRDERS		
		I			SANTHI ENGG. UNIT-II	PUDUKKUDI	A		CEILING GIRDERS		
		I			MASTERFAB UNIT-II	DEVARAYANERI	A		CEILING GIRDERS		
		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)		

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				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 CEILING GIRDERS				
		I			SIMPLEX ENGG & FOUNDRY WORKS	UNIT 2, BHILAI	A						
		I			SEAM INDUSTRIES LIMITED	NAGPUR	A			WELDED STRUCTURE UPTO 15T. FABRICATION AND SUPPLY OF BUNKERS & BUNKER STRUCTURES, BUCKSTAYS AND DUCTS.			

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				I			SHIVAM HITECH STEELS PVT. LTD	BHILAI	A			HORIZONTAL BRACE/CIRCULAR HOLLOW SECTION ,BUCKSTAY,DUCTS		
				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, TP'S & 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)				

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				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				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				
31	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								
		II			PINAX STEEL INDUSTRIES PVT LTD	PATNA	A							

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		I			TF TECH CO. LTD	SOUTH KOREA	A						
		I			FLASH FORGE	VIZAG	A						
		I			BGH EDELSTAHL SIEGEN GMBH	GERMANY	A						
		I			ERNE FITTINGS GMBH	AUSTRIA	A						
		I			GAM RACCORDI SPA	ITALY							
		I			TECHNO FORGE SPA	ITALY	A						
		I			MEGA SPA	ITALY	A						
		I			BASSI ILLUIGI SPA	ITALY	A						
		I			IBF SPA	ITALY	A						
		I			ALLIED INT. (TACTUBI RACCORDI SPA, VIA ROMA 150, 29027 PODENZANO)	ITALY	A						
		I			BRUCK STRASSE 16 ENSHEIM	GERMANY	A						
		I			SUNGKWANG BEND CO. LTD.,	SOUTH KOREA	A						
		I			TK CORPN. FORGITAL	S KOREA	A						

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				I			FORGITAL	ITALY	A			MANUFACTURING AND SUPPLY OF GRADE 91 FORTGINGS (HOLLOW FORTGINGS/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				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			POWER PIPING	TRICHY	A							
34	CHEMICAL DOSING SYSTEM (SKID ASSY) FOR SG SCOPE INCLUDING AUX BOILER	I			V K PUMPS	MUMBAI	A							
		I			MILTON ROY	CHENNAI	A							
		I			TECHNO CONSULTANTS	MUMBAI	A							

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				I			POSITIVE METERING SYSTEM	NASIK	A				
				I			PSI ENGG SYSTEM	CHENNAI	A				
35	SG CW BOOSTER PUMP/ ECW	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						
		I			FLOWMORE	GHAZIABAD	A						
36	COAL MILL STATIC & ROTATING PARTS	I											
	PGB	I			SIEMENS	GERMANY	A						
		I			BHEL	HYDERABAD	A						
		I			SIEMENS LTD	Chennai	A						
		I			ELECON ENGG CO. LTD.	VALLABH VIDYA NAGAR	A						
		I			HYOSUNG	KOREA	A						
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	PGB INTERNALS	I			SIEMENS, WELTER	GERMANY	A				
	PGB HOUSING	I			NS ENGG.	HYDERABAD	A				
		I			SIMPLEX	BHILAI	A				
		I			KCP	CHENNAI	A				
		I			BROWN'S HITECH STRUCTURES	BHEL ANCILLARIES	A				
		I			SRI SRI ENGG. WORKS	JEEDIMETLA	A				
		I			GVR ASSOCIATES	PATANCHERU	A				
	GRINDING ROLL	I			AIA ENGINEERING	AHMEDABAD/ NAGPUR	A				
		I			MAGATTOEUX	RAIKOT	A				
	BULL RING SEGMENTS	I			AIA ENGINEERING	AHMEDABAD/ NAGPUR	A				
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		I			MAGATTOEUX	RAIKOT	A				
	SEPARATOR BODY	I			KCP	CHENNAI	A				
		I			NS ENGG.	HYDERABAD	A				
		I			ALSTOM PROJECTS INDIA LTD	SHAHABAD	A				
		I			SIMPLEX	BHILAI	A				
		I			PREMIER ENGG. INDUSTRIES	JEEDIMETLA	A				
		I			BHEL – HPVP	VISAKHAPATNA M	A				
		I			BHEL – CSU (FP)	JAGDISHPUR	A				
		I			L&T- MHPS BOILERS PVT. LTD.	HAZIRA	A				
		I			ISGEC HEAVY ENGINEERING	YAMUNA NAGAR	A				
		I			GTV ENGG	MANDIDEEP	A				
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	SEPARATOR TOP	I			KCP	CHENNAI	A				
		I			SIMPLEX	BHILAI	A				
		I			NS ENGG.	HYDERABAD	A				
		I			ALSTOM PROJECTS INDIA LTD	SHAHBAD	A				
		I			BHEL – HPVP	VISAKHAPATNA M	A				
		I			YOGASREE	BENGALURU	A				
		I			BHEL – CSU (FP)	JAGDISHPUR	A				
		I			L&T- MHPS BOILERS PVT. LTD.	HAZIRA	A				
		I			ISGEC HEAVY ENGINEERING	YAMUNA NAGAR	A				

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Supplier/आपूर्तिकर्ता:
Contract No./अनुबंध सं.:

**LIST OF ITEMS REQUIRING QUALITY PLAN
AND SUB-SUPPLIER APPROVAL** क्वालिटी प्लान तथा सब-
वेंडर के अनुमोदन सहित मदों की सूची

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				I			GTV ENGG	MANDIDEEP	A				
			MILL DISCHARGE VALVE (VALVE OUTLET & ADAPTOR	I			BHEL - EPD	BANGALORE	A				
				I			BHEL - IP	JAGDISHPUR	A				
			MILL MOTOR COUPLING	III			SIEMENS	GERMANY	A				
37			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				
38			CERAMIC LINED BEND COAL PIPES	II			BHELEDN	BANGALORE	A				
				II			BMW	HATHRAS/ROURKEE	A				
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				II			CARBORANDUM UNIVERSAL	HOSUR	A					
				II			BHEL IP	JAGDISHPUR	A					
39	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"				
40	RAPH (STATIC COMPONENTS, ROTATING COMPONENTS, GUIDE/SUPPORT BEARINGS	I			Bharat Heavy Electrical Limited	Ranipet	A							
	RAPH Rotor Parts	I			Diffusion Engineers	Nagpur	A							
		I			Baroda Equipment and Vessels	Vadodara	A							
		I			NR Air-preheater	Pudukudi	A							
	RAPH Static Parts	I			Indira Ind.	Ranipet	A							
		I			Diffusion Engineers	Nagpur	A							
		I			NR Air-preheater	Pudukudi	A							
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41	FD, PA & ID FANS(STATIC, ROTATING COMPONENTS	I			Bharat Heavy Electrical Limited	Ranipet	A				
	FAN STATIC PARTS	I			Diffusion Engineers	Nagpur	A				
		I			Baroda Equipment and Vessels	Vadodara	A				
		I			GTV Engg. Ltd						
		I			Efficient Envirotech Pvt. Ltd.	Pune					

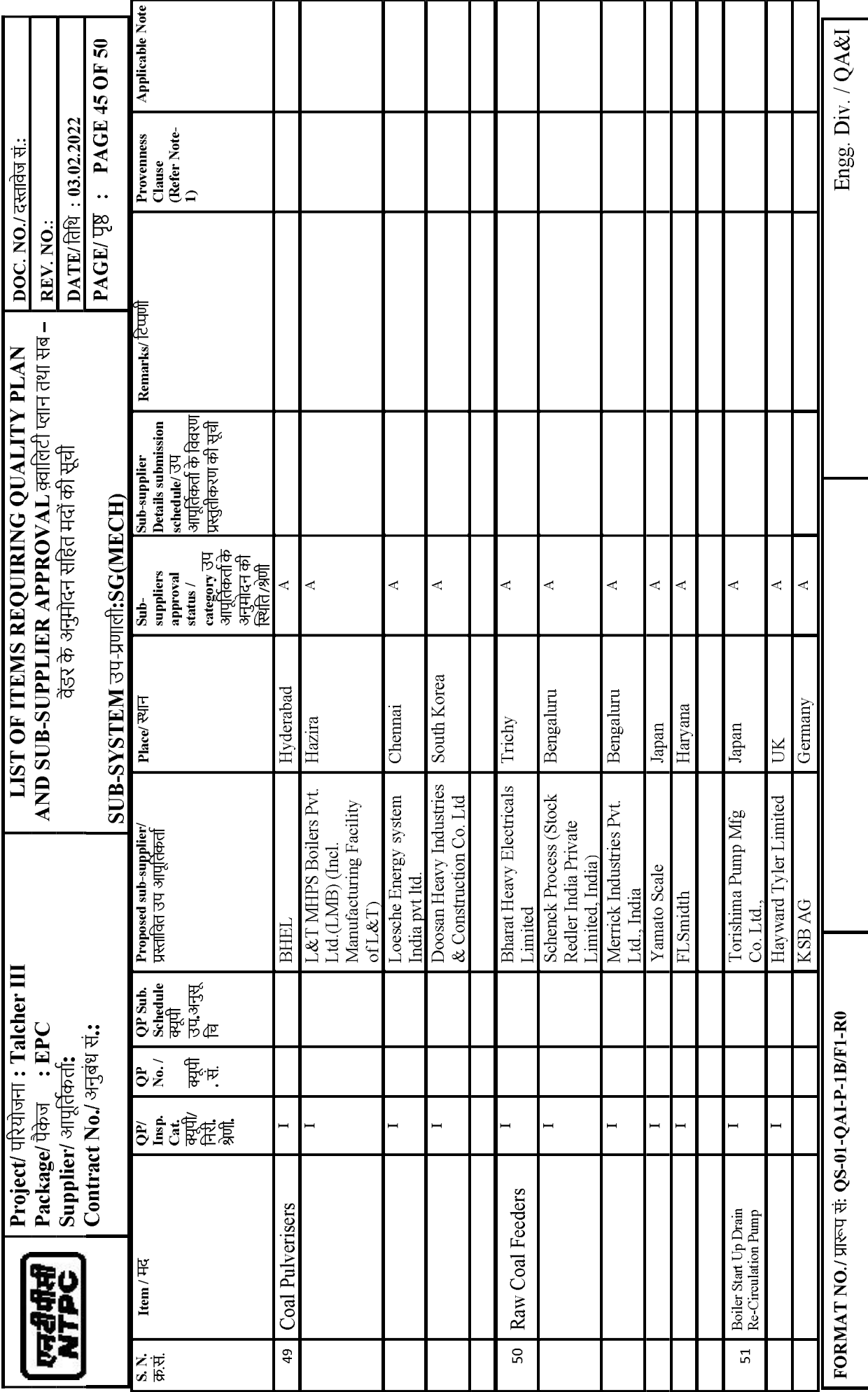
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			BLADES	I			a) M/s Mastia Machinery stores Pvt Ltd, b) M/s HAL, Bangalore c) M/s Vedanta Meta Cast Pvt Ltd, Pune, d) TLT, Germany, e) Howden Solyvent India Chennai	Ahmedabad Bangalore Pune, Germany, Chennai	A A A A A				
	Hydraulic Actuating Device	I			M/s TLT	Germany	A						
		I			HAROLD BECK & SONS, INC.	USA	A						
		I			Rotork	Banglore	A						
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42	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				
43	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			GUILLOTINE GATE(2700 MM HEIGHT)		
		I			DAMPER TECHNOLOGY INDIA PVT LTD	COIMBATORE	A				
44	ESP COLLECTING ELECTRODE				BHEL	Ranipet	A				
	,	I			L&T Hazira works	Hazira	A				
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		I			Penner Industries	Medak- Telengana	A						
		I			Dewas Metal	Dewas, MP	A						
		I			Auro Impex	Kolkata	A						
45	ESP EMITTING ELECTRODE	I			The G Engineers	Pune	A						
		I			Auro Impex	Kolkata	A						
		I			Patco Tech	Kolkata	A						
		I			Siva springs	Madurai	A						
		I			Venkateshwara Steel & springs	Coimbatore	A						
		I			Nagappa Springs	Ranipet	A						
		I			Kwality coils	Madurai	A						
		I			Best coils	Ranipet	A						
		I			Vishnu wire forms	Madurai	A						
46	PA Fans	I			Bharat Heavy Electrical Limited	Ranipet	A						
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		I			L&T- Howden Private Limited	Hazira	A				
		I			TLT-Turbo GmBH	Germany	A				
		I			Howden	Denmark	A				
47	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				
48	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				
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52	Air Pre-Heaters	I			Bharat Heavy Electricals Limited	Ranipet	A				
					L&T Howden Private Limited	Hazira	A				
					Arvos India Pvt.Ltd.	Chennai	A				
53	Auxiliary Boiler	I			ISGEC John Thompson (JIT)	Yamuna Nagar	A				
		I			Thermax Babcock & Wilcox Ltd.	Pune	A				
		I			Bharat Heavy Electricals Limited & BHEL (HVPB)	Trichy, Vizag	A				
54	ESP	I			Bharat Heavy Electricals Limited	Ranipet	A				
		I			Larsen & Toubro Limited	Hazira	A				
		I			GE Power India	India	A				
ITEMS WITH MAIN CONTRACTOR APPROVED SOURCES AND INSPECTION CATEGORY-III											
1	ALUMINIUM CLADDING	III			MAIN CONTRACTOR APPROVED SOURCES						
2	NON IBR PIPING / LP PIPING - PRESSURE UP TO 10 KSC	III			MAIN CONTRACTOR APPROVED SOURCES						
3	CASTABLE REFRACTORY	III			MAIN CONTRACTOR APPROVED SOURCES						
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		Project/ परियोजना : Talcher III Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब - वेडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली:SG(MECH)					DOC. NO./दस्तावेज सं.:		
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4	POURABLE INSULATION	III			MAIN CONTRACTOR APPROVED SOURCES						
5	STEEL STRUCTURE FOR DUCTS , FURNACE ENCLOSURE, GUIDE, STAIRS & LADDERS, HANDRAILS, PLATFORMS	III			MAIN CONTRACTOR APPROVED SOURCES						
6	SILENCERS	III			MAIN CONTRACTOR APPROVED SOURCES						
7	COAL PIPES & BENDS (WITHOUT CERAMIC LINERS)	III			MAIN CONTRACTOR APPROVED SOURCES						
8	FITTINGS(CS, SS & AS UP TO GRADE 22)	III			MAIN CONTRACTOR APPROVED SOURCES						
9	ELECTRIC HOIST WITH TROLLEY, UNDERSLUNG CRANE < 05 TON CAPACITY	III			MAIN CONTRACTOR APPROVED SOURCES						
10	DUCTS	III			MAIN CONTRACTOR APPROVED SOURCES						
11	AIR RECEIVER TANK	III			MAIN CONTRACTOR APPROVED SOURCES						
12	COUPLING FOR FANS	III			MAIN CONTRACTOR APPROVED SOURCES						
13	SCAPH	III			MAIN CONTRACTOR APPROVED SOURCES						
14	OXYGEN DOSING SYSTEM	III			MAIN CONTRACTOR APPROVED SOURCES						
15	CE & DE SUSPENSION ASSEMBLY WITH RAPPING(MECHANICAL) MECHANISM	III			MAIN CONTRACTOR APPROVED SOURCES						
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एनटीपीसी NTPC		Project/ परियोजना : Talcher III Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब – वेंडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली:SG(MECH)					DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/तिथि : 03.02.2022 PAGE/ पृष्ठ : PAGE 48 OF 50		
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16	PERFORATED GD PLATE/ SCREEN	III			MAIN CONTRACTOR APPROVED SOURCES								
17	ESP SUPPORT STRUCTURE (COLUMNS & ROOF BEAMS MANUFACTURED FROM ROLLED SECTIONS), CASING	III			MAIN CONTRACTOR APPROVED SOURCES								
18	ESP- MECH SAFETY INTERLOCK	III			MAIN CONTRACTOR APPROVED SOURCES								
19	Spray header for FGD	III			MAIN CONTRACTOR APPROVED SOURCES								
20	Mist eliminators for FGD	III			MAIN CONTRACTOR APPROVED SOURCES								

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	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 : (\$) 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.										

		Project/ परियोजना : Talcher III Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब – वेडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली:SG(MECH)				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 03.02.2022 PAGE/ पृष्ठ : PAGE 50 OF 50	
S. N. क्र.सं.	Item / मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी .सं.	QP 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 submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	Provenness Clause (Refer Note-1)	Applicable Note
	LEGENDS/ सेकेतिका SYSTEM SUPPLIER/SUB-SUPPLIER APPROVAL STATUS CATEGORY / प्रणाली आपूर्तिकर्ता / सब – वेडर की स्वीकृति की स्थिति की श्रेणी (SHALL BE FILLED BY NTPC एनटीपीसी द्वारा भरा जाए) 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 वेडर एनटी 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 मदों की समीक्षा के लिए “विस्तृत ब्यौरे की आवश्यकता” होगी। सूची में “मे” 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 मदों के लिए गुणवत्ता योजनाओं को एनटीपी 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 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 अनुमोद 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 Completion (COC) by Main Contractor. UNITS/WORKS इकाईयां / कार्य: Place of manufacturing/ निर्माण का स्थान Place of Main Supplier of multi units/works बहु- इकाईयां / कार्यो के मुख्य सप्लायर का स्थान.										
FORMAT NO./ प्रारूप सं: QS-01-QAI-P-1B/F1-R0						Engg. Div. / QA&I					

		Project/ परियोजना : Talcher - III				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL				Doc. No./ दस्तावेज सं.:	
		Package/ पैकेज. : EPC PACKAGE		Supplier/ आपूर्तिकर्ता:		PLAN AND SUB-SUPPLIER APPROVAL		REVISION NO : 00		Doc. No./ दस्तावेज सं.:	
		Contract No./ अनुबंध सं.:		Sub-supplier approval category / उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी		Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची		DATE/ तिथि : 17.01.22		Doc. No./ दस्तावेज सं.:	
				SUB-SYSTEM उप-प्रणाली: FGD							
Sr. No.	Item / मद	QP/ Insp. Cat. कम्पै. निरी. श्रेणी.	QP No./ कम्पै. सं.	QP Sub. Schedule उप.अनुसू. चि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	Talcher Clause	Equipment rating for which the vendor is approved
1	SLURRY RECIRCULATION PUMP	I			KSB LTD	INDIA	A		Note-1	4.26.2	Flow-12710 m ³ /hr Head-25.7 m
		I			DUCHTING PUMPEN	GERMANY	A		Note-1	4.26.1	Flow-12500 m ³ /hr Head-24.4 m
2	WET BALL MILL	I			CHRISTIAN PEIFFER	INDIA	A		Note-1	4.26.2	Capacity-41.8 TPH
		I			THYSSENKRUPP INDIA	INDIA	A		Note-1	4.26.2	Capacity- 92 TPH
3	OXIDATION BLOWER	I			SWAM PNEUMATICS PVT LTD. (POSITIVE DISPLACEMENT)	INDIA	A		Note-1	4.26.1	Flow-14000 Nm ³ /hr Head-11000 mmwc
		I			SWAM PNEUMATICS PVT LTD. (CENTRIFUGAL)	INDIA	A		Note-1	4.26.3	Flow-21370 Nm ³ /hr Head-9381 mmwc
		I			BOLDROCCHI INDIA PVT LTD(SINGLE STAGE CENTRIFUGAL)	INDIA	A		Note-1	4.26.3	Flow-18000 Nm ³ /hr Head-11318mmwc
		I			GARDNER DENVER INDIA (MULTISTAGE CENTRIFUGAL)	INDIA	A		Note-1	4.26.2	Flow-30000 Nm ³ /hr (wet) Head-98 Kpa(g)
		I			TILT BABCOCK (CENTRIFUGAL)	INDIA	A		Note-1	4.26.2	Flow-21500 Nm ³ /hr Head-11000 mmwc
4	Vacuum Belt Filter	I			M/S. TENOVA INDIA	INDIA	A		Note-1	4.26.1	Capacity-55TPH
5	SLURRY PUMP	I			WEIR MINERALS	INDIA	A		Note-1	4.26.2	
		I			METSO INDIA PVT LTD	INDIA	A		Note-1	4.26.2	
6	AGITATORS	I			MUT-TSCHAMBER (TOP ENTRY)	GERMANY	A			4.26.1	

[illegible]

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		Package/पैकेज : EPC PACKAGE		क्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची			REVISION NO : 00				
		Supplier/ आपूर्तिकर्ता:		SUB-SYSTEM उप-प्रणाली: TG-Mech			DATE/तिथि : 04.02.2022				
		Contract No./ अनुबंध सं.:									
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					BRUNO PRESEZZI	Italy	A				
					NUGO ROMANO	Italy	A				
					BHEL (HEEP)	Haridwar	A				
					Siemens	Germany	A				
					GMW	Germany	A				
					Sharp	Pune	A				
					BILFINGER MAS GMBH	Austria	A			HP/IP Inner Casing	
4	HP/IP/LP Turbine shaft Forging	I			JCFC (Japan Casting & Forging Corp.)	Japan	A			Previous Name:MCE	
					SAARSCHEMIEDE	Germany	A				
					JSW	Japan	A				
					Pacific Steel Mfg Co Ltd	Japan	A				
					Schmiedewerke Gröditz	Germany	A				
					Buderus Edelstahl	Germany	A				
					Cruesot Forge	France	A				
					Kobe Steel	Japan	A				
					SDF	Italy	A				
					Siemens	Germany	A				
					Franco Tosi	Italy	A			HP/IP	
					BHEL (HEEP)	Haridwar	A				
					ROSSEL DUSO	Italy	A				
					BRUNO PRESEZZI	Italy	A			HP/IP	
					NUGO ROMANO	Italy	A				
					NICE MAP (Voist Alpine)	Austria	A			HP	
					GE	Poland/Switzerland/France/Sanand	A				
					Toshiba	Japan	A				
					TIPS	Chennai	A				
					MHPS	Japan	A				
					LMTG	Hazira	A				
5	Turbine shaft machining	I									

		Project/परियोजना : Talcher - III		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL			Doc. No./ दस्तावेज सं.:				
		Package/पैकेज : EPC PACKAGE		क्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मर्च की सूची			REVISION NO : 00				
		Supplier/ आपूर्तिकर्ता:		SUB-SYSTEM उप-प्रणाली: TG-Mech			DATE/ तिथि : 04.02.2022				
		Contract No./ अनुबंध सं.:									
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					Enem Excel	Hyderabad	A				
					TJPS	Chennai	A				
					Toshiba	Japan	A				
					BHEL (HEEP)	Haridwar	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	Japan	A				
					PIETRO ROSA	Italy	A				
					Leitritz Turbinenkomponenten	Germany	A				
					Bohler	Austria	A				
					Toshiba	Japan	A				
					ALSTOM	Switzerland	A				
					AZAD ENGG	Hyderabad	A				
					Zollem	Germany	A				
					Consolidated Precision Product Formetal (cismocisco)	Belgium	A			Previous Name:ESCO	
					Iuergens	Italy	A			For casting	
					GE Power Systems	Germany	A			For casting	
8	LP Forged Blades(Drop)-Material	II									
9	LP Forged Blades(Drop) Machining	I									
10	LP Cast Blades(material) & Machining	I									

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		Package/पैकेज : EPC PACKAGE				क्वालिटी प्लान तथा सब-वैडर के अनुमोदन सहित मदों की सूची				REVISION NO : 00			
		Supplier/ आपूर्तिकर्ता:				SUB-SYSTEM उप-प्रणाली: TG-Mech				DATE/तिथि : 04.02.2022			
		Contract No./ अनुबंध सं.:											
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					Kaydon Filtration	USA	A						
					Westfalia Separator India Pvt.Ltd.	Germany/Bangalore	A						
					Rotring	Germany	A						
					Rockfin Group	Poland	A						
24	Duplex Oil Filter With Oil Changeover Valve	I			Hydac	Germany	A						
					Boll & Kirch	Germany	A						
					Rockfin	Poland	A						
25	Turbine Integral Piping	I			BHEL Piping Center	Chennai	A						
					Unitech	Saharanpur	A						
					Bend Joints	Bhopal	A						
					Pal Engineering	Yamunanagar	A						
					Seonghwa	S Korea	A						
					L&T Piping Center	Hazira	A						
					Dee Development	Ballabgarh	A						
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						
					King Dynamics	Switzerland	A						
					Southern Lubrication	Bangalore	A						
					ENPRO	Pune	A						
27	Thermal Insulation	II			Eugen Arnold GmbH	Germany	A						
					Heinrich Tapp GmbH	Germany	A						
					Lloyds Insulation	India	A						
					Minwool Rock Fibre	Bhilai	A						
					Thermocare	Rajnandgaon	A						
					Dhanbad Rockwool Insulation	Dhanbad	A						

		Project/परियोजना : Talcher - III				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL				Doc. No./ दस्तावेज सं.:	
		Package/ पैकेज : EPC PACKAGE				क्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची				REVISION NO : 00	
		Supplier/ आपूर्तिकर्ता:				SUB-SYSTEM उप-प्रणाली: TG-Mech				DATE/ तिथि : 04.02.2022	
		Contract No./ अनुबंध सं.:									
S. N. क्र.सं	Item / मद	QP/ Insp. Cat. क्यूपी/ निर्देश श्रेणी.	QP No. /क्यूपी सं.	QP Sub. Schedule क्यूपी उप. अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुती करण की सूची	Provenness Clause (Refer Note-1)	Applicable Note	
28	Condenser (water cooled) (Sub QR Item)	I			Minsulate Manufacturing Co. MHI THERMAL ENGG INTERNATIONAL (TIED) TIPS TOSHIBA CORPORATION LTD LMTG BHEL ABFPL GE ISGEC GE Power india Ltd. Godrej & Boyce Manufacturing Company Ltd.	Jamshed Japan USA Chennai Japan Surat Haridwar Sanand Switzerland Yamunanagar Durgapur Mumbai	A A A A A A A A A A A A				
29	Condenser Fabricator (water cooled)	I									
30	HP Heaters (Sub QR Item)	I			TEMA India Ltd., TOSHIBA CORPORATION LTD TIPS SPX Heat Transfer Inc. (Erstwhile Yuba Heat Transfer) GE ABFPL BHI THERMAL ENGG INTERNATIONAL HOLTEC L&T BHEL ISGEC	Thane Japan Chennai USA France Sanand S Korea USA USA Hazira Hyderabad Yamunanagar	A A A A A A A A A A A A				
31	LP/HP Heater Fabricator	I									

एनटीपीसी NTPC		Project/परियोजना : Talcher - III			LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL			Doc. No./ दस्तावेज सं.:		
		Package/पैकेज : EPC PACKAGE			क्वालिटी प्लान तथा सब-वेंडर के अनुमोदन सहित मदों की सूची			REVISION NO : 00		
		Supplier/ आपूर्तिकर्ता:			SUB-SYSTEM उप-प्रणाली: TG-Mech			DATE/तिथि : 04.02.2022		
		Contract No./ अनुबंध सं.:								
S. N. क्र.सं	Item / मद	QP/ Insp. Cat. कृपणी/ निर्री. श्रेणी.	QP No. /कृपणी. सं.	QP Sub. Schedu le कृपणी उप. अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / उप आपूर्तिकर्ता के स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुती करण की सूची	Provenness Clause (Refer Note-1)	Applicable Note
					Godrej & Boyce Manufacturing Company Ltd.	Mumbai	A			
					TEMA India Ltd.,	Thane	A			
32	LP Heaters (Sub QR Item)	I			TOSHIBA CORPORATION LTD	Japan	A			
					TJPS	Chennai	A			
					SPX Heat Transfer Inc. (Erstwhile Yuba Heat Transfer)	USA	A			
					GE	Switzerland	A			
					ABFPL	Sanand	A			
					BHI	S Korea	A			
					THERMAL ENGG INTERNATIONAL	USA	A			
					BHEL	Hyderabad	A			
					L&T	Hazira	A			
					HOLTEC	USA	A			
33	Condensate Extraction Pump (Sub QR Item)	I			KSB	Chinchwad, Pune	A			
					BHEL	Hyderabad	A			
					SULZER Pumps	Mumbai	A			
34	Condenser Air Evacuation Pumps (Sub QR Item)	I			Clyde Pumps India pvt. Ltd.	Ghazizabad	A			
					GARDNER Denver/Nash	Germany	A			
					GARDNER Denver/Nash	Pune	A			
					Tsunumi pumps	Japan	A			
					Edwards	UK	A			
35	Deaerator (Sub QR Item)	I			TJPS	Chennai	A			
					BHEL	Hyderabad	A			
					BGR	Chennai	A			
36	Deaerator Fabricator	I			Godrej	Mumbai	A			
					ISGEC	Yamunagar	A			
					Altech	Bhiwadi	A			

		Project/ परियोजना : Talcher - III		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL			Doc. No./ दस्तावेज सं.:				
		Package/ पैकेज : EPC PACKAGE		क्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मर्चों की सूची			REVISION NO : 00				
		Supplier/ आपूर्तिकर्ता:		SUB-SYSTEM उप-प्रणाली: TG-Mech			DATE/ तिथि : 04.02.2022				
		Contract No./ अनुबंध सं.:									
S. N. क्र.सं	Item / मर्द	QP/ Insp. Cat. कृपया/ निरी. श्रेणी.	QP No. /कृपया. सं.	QP Sub. Schedule कृपया उप. अनु सूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुती करण की सूची	Provenness Clause (Refer Note-1)	Remarks/ टिप्पणी	Applicable Note
					TEMA India Ltd.,	Mumbai	A				
					BGR Energy System Ltd.	Chennai	A				
					KSB	Germany	A				
					KSB	Pune	A				
					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				
					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				
					GE India Industrial Pvt. Ltd.	Pune	A				
					Toshiba	Japan	A				
					TJPS	Chennai	A				
					Power machines (Kaluha)	Russia	A				
37	Booster Pump	I									
38	Boiler Feed Pump (BFP) (Sub QR Item)	I									
40	Drive Turbine for BFP	I									

		Project/परियोजना : Talcher - III		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL			Doc. No./ दस्तावेज सं.:		
S. N. क्र.सं		Package/पैकेज : EPC PACKAGE		Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुती करण की सूची			REVISION NO : 00		
		Supplier/ आपूर्तिकर्ता:					DATE/तिथि : 04.02.2022		
		Contract No./ अनुबंध सं.:							
Item / मर्द	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 / उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Remarks/ टिप्पणी	Provenness Clause (Refer Note-1)	Applicable Note
				MHI SANWA TEKKI CORPORATION CARPENTER AND PETERSON CARPENTER & PATERSON INDIA PRIVATE LTD. AAA Supports Private Limited	Japan Japan UK Vellore Vadodara	A A A A A			
46	Metallic Expansion Joint	I		Carpenter & Patterson Lonestar Flexicon Witzemann Munro & Miller Flexatherm Bird Precision Metallic Bellows MB Metallic Bellows Athulya Bellows and Engineering Pvt. Ltd	USA/Thailand Chennai Vadodara Germany UK Vadodara UK Chennai Chennai Vadodara	A A A A A A A A A			
47	HP Piping -Fabrication and Drawings of Qualified Vendor)	I		HKR BHR Seonghwa Finow TOSHIBA BHEL	S Korea Germany S Korea Germany Japan Piping Center, Chennai &Thirumayam	A A A A A A			

		Project/परियोजना : Talcher - III		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL		Doc. No./ दस्तावेज सं.:					
S. N. क्र.सं		Package/पैकेज : EPC PACKAGE		क्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मर्चों की सूची		REVISION NO : 00					
		Supplier/ आपूर्तिकर्ता:		SUB-SYSTEM उप-प्रणाली: TG-Mech		DATE/तिथि : 04.02.2022					
		Contract No./ अनुबंध सं.:									
Item / मर्च		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 / उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुती करण की सूची	Remarks/ टिप्पणी	Provenness Clause (Refer Note-1)	Applicable Note
					Weir Valves & Controls UK Ltd.	UK	A				
					BHEL	Trichy	A				
					Crane	USA	A				
					Samshin	S Korea	A				
					Pentair(Tyco Sempell)	Germany	A				
					Velan	Canada	A				
					ToA	Japan	A				
					Tyco	USA	A				
					BHEL	Trichy	A				
					Dresser	USA	A				
					Tyco	USA	A				
					Babcock	Spain	A				
					Flainger	Germany	A				
					Bopp & Reuther	Germany	A				
					Flainger	Nasik	A				
					Reineke	Germany	A				
					Valve Technology	USA	A				
					KSB	Coimbatore	A				
					Leader	Jalandhar	A				
					L&T	Chennai	A				
					Velan	Canada	A				
					Fouress Engg	Ahmadnagar	A				
					Trillium Flow	Hubli	A				
					Velan	Canada	A				
					Steel Strong	Mumbai	A				
					L&T	Coimbatore	A				
					Plymouth	USA	A				
					Ratnamani	Kutchh	A				
57	Safety Valves	I									
58	Forged Steel Valves up to 2" , Class 800 (FCS/FSS)	I									
59	Condenser Tubes	I									

		Project/परियोजना : Talcher - III		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL			Doc. No./ दस्तावेज सं.:				
		Package/पैकेज : EPC PACKAGE		क्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मर्चों की सूची			REVISION NO : 00				
		Supplier/ आपूर्तिकर्ता:					DATE/तिथि : 04.02.2022				
		Contract No./ अनुबंध सं.:		SUB-SYSTEM उप-प्रणाली: TG-Mech							
S. N. क्र.सं	Item / मर्द	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No. /क्यूपी. सं.	QP Sub. Schedule क्यूपी उप. अनु सूची	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुती करण की सूची	Provenness Clause (Refer Note-1)	Remarks/ टिप्पणी	Applicable Note
60	HP/LP Heater tubes	I			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				
					Valimat	France	A				
					Nippon Steel Corp.	Japan	A				
					Ratnadeep Metal & Tubes Ltd	Mehsana	A				
					Scholler Werke GmbH	Germany	A				
					Plymouth	USA	A				
					Ratnamani	Kutchh	A				
					Ratnamani	Mehsana	A				
					Valimat	France	A				
					Nippon Steel Corp.	Japan	A				
					Scholler Werke	Germany	A				
					Heavy Metals and Tubes	Gandhinagar	A				
					Shin han Metal	S Korea	A			LP Heater	
Apex	Alwar	A			LP Heater						
Ratnadeep 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.						
61	Turbine Bearing Pedestal	I			Main Contractor Approved Sources						
62	Chemical Dosing System	I			Main Contractor Approved Sources						
63	Vapour Exhauster With Motor	II			Main Contractor Approved Sources						
64	Drain Cooler & Misc Tanks	II			Main Contractor Approved Sources						

				Project/परियोजना: Talcher - III		Doc. No./ दस्तावेज सं.:					
				Package/पैकेज: EPC PACKAGE		REVISION NO : 00					
				Supplier/ आपूर्तिकर्ता:		DATE/ तिथि : 04.02.2022					
				Contract No./ अनुबंध सं.:							
LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL											
क्वालिटी प्लान तथा सब-वेंडर के अनुमोदन सहित मर्दों की सूची SUB-SYSTEM उप-प्रणाली: TG-Mech											
S. N. क्र.सं	Item / मर्द	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 / उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुती करण की सूची	Remarks/ टिप्पणी	Provenness Clause (Refer Note-1)	Applicable Note
65	Oxygen/NAOH Dosing System	II			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.											
LEGENDS/ संकेतिका											
* - Inspection category will be decided during vendor evaluation.											
1.0 SYSTEM SUPPLIER / SUB SUPPLIER APPROVAL STATUS CATEGORY प्रणाली आपूर्तिकर्ता / सब-वेंडर की स्वीकृति की स्थिति 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 मर्दों के लिए प्रस्तावित वेंडर एनटीपीसी को स्वीकार्य है। अनुमोदन											
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 मर्दों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया											
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											
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											
UNITS/WORKS : Place of manufacturing- Place of main supplier of multi units/works.											
FORMAT NO./ फॉरमट सं: QS-01-QAL-P-1B/F1-R0											

एनटीपीसी NTPC		Project/ परियोजना : Talcher III Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:			LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब - वेंडर के अनुमोदन सहित मदों की सूची				DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 22.05.2021 PAGE/ पृष्ठ : PAGE 1 OF 2		
S. N. क्र.सं.	Item /मद	QP/ Insp. Cat. क्यूपी/ मिरी. श्रेणी.	QP No. / क्यूपी. सं.	QP Sub. Schedule क्यूपी उप.अनुसूचि	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.	TG HALL EOT CRANE ALONG WITH LIFTING BEAM (IF APPLICABLE) (Sub-QR Item)	I			FAFCO	Vadodara/ Mumbai	A		Vadodara - upto 150 MT, Mumbai - Upto 200 MT		
		I			Mukand	Thane	A		Upto 300 MT		
		I			WMI Konecranes	Pune	A		Upto 300 MT		
		I			Anupam Industries	V U Nagar	A		Upto 300 MT		
		I			Unique Industries Handlers	Nasik	A		Upto 300 MT		
		I			CRANEX	GHAZIABA D	A		Upto 140 MT		
		I			HEC	Ranchi	A		Upto 265 MT. Main Contractor to ensure availability of Load / Overload testing facility at Shop.		

NOTE -1: For final Sub-QR approval , document required to be submitted as per Sub-QR requirements given in the specification.

FORMAT NO./ प्रारूप सं: QS-01-QAI-P-1B/F1-R0	Engg. Div. / QA&I
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एनटीपीसी NTPC	Project/ परियोजना : Talcher III Package/ पैकेज : EPC Package Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:	LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब - वेंडर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: TG HALL EOT CRANE	DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 22.05.2021 PAGE/ पृष्ठ : PAGE 2 OF 2
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LEGENDS/ संकेतिका

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 वेडर एनटीपीसी को स्वीकार्य है। अनुमोदन की शर्त, यदि कोई हो, के साथ-साथ पत्र 'क' में इंगित किया जाए।

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 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 / 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 मदों 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 multi units/works/बहु- इकाइयों / कार्यों के मुख्य सप्लायर का स्थान.

FORMAT NO./ प्रारूप सं: QS-01-QAI-P-1B/F1-R0	Engg. Div. / QA&I
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Project/परियोजना : TALCHER-III
Package/पैकेज : EPC
Supplier/ आपूर्तिकर्ता:
Contract No./ अनुबंध सं.:

INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN
AND SUB-SUPPLIER APPROVAL
स्वालिटी 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 : 04-02-2022
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S. N. क्र.सं.	Item /मद	QP No. / क्यूपी. सं.	QP Sub. Schedule क्यूपी उप.अनुसू. चि	Proposed sub-supplier/ प्रस्तावित उप	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी (NOTE-1)	Sub- supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	Applicable Systems
1	AIR BLOWERS -LOBE TYPE>= 5KW	I		आपूर्तिकर्ता SWAM PNEUMATIC	NOIDA	A		UP TO 40 HP (APPROX 1600 CUM/HR)	WTP,CPU,AHP
				EVEREST BLOWERS PVT LTD	BAHADURGARH	A		UP TO 4800 CUM/HR	
				KAY INTERNATIONAL	SONEPAT	A		UP TO 2500CUM/HR	
				KULKARNI POWER TOOLS	SHROL	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,CT,AC&VENTILATI ON,CHP,LHP&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 FERGUSSON	KOLKATA			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	
				CENTURY CRANE ENGINEERS PVT. LTD	BALLABHGARH	A		UP TO 25 MT	
				ARMSEL	BANGALORE	A		UPTO 10 MT EOT & UPTO 15 MT ELECTRIC HOIST	
				TRACTEL TIRFOR	PALWAL	A		UPTO 15 MT FOR ELECTRIC HOIST AND UPTO 10 MT FOR EOT	
				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	
2.B	GANTRY CRANE >5T	I (> 10T) / III (>5T UP TO 10T)		REVA INDUSTRIES	FARIDABAD	A		UP TO 60 MT	CW
				UNIQUE INDUSTRIAL HANDLERS PVT LTD	NASHIK	A		UP TO 165 MT	
				ANUPAM INDUSTRIES LTD.	ANAND	A		UP TO 60MT	
				SMACO ENGINEERING PVT. LTD	THANE	A		UP TO 60MT	
				MANGLA HOIST	GREATER NOIDA	A		UP TO 10MT	
3	FAN- AXIAL. TYPE >= 5KW			CB DOCTOR VENTILLATOR PVT LTD	AHMEDABAD	A		up to 50000 CMH	WTP,CT,AC&VENTILATI ON,CHP,LHP&GHP,AHP
				HOWDEN SOLYVENT FLAKT INDIA PVT LTD,	CHENNAI	A		up to 125000 CMH	
				C DOCTOR &CO PVT LTD	KOLKATA	A		up to 50000 CMH	
				KRUGER VENTILATION INDUSTRIES (I) PVT LTD	SHAH PUR, THANE	A		Up to 6000 CMH	

Project/ परियोजना : TALCHER-III Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्वालिटी प्लान तथा सब-वेयर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)		DOC.NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 04-02-2022 PAGE/ पृष्ठ :		Applicable Systems					
Item / मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No./ क्यूपी सं.	QP Sub. Schedule क्यूपी अनुसू वि	Proposed sub-supplier/ प्रस्तावित उप	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति (NOTE-1)	Sub- supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी			
S. N. क्र.सं.		I		आपूर्तिकर्ता NADI AIRTECHNICS PVT LTD	CHENNAI	A	Up to 15000 CMH				
				ADVANCE VENTILATION PVT LTD	KUNDALI SONEPAT	A	up to 40000 CMH				
				SK SYSTEMS PVT LTD	KUNDALI PHASE-II, SONEPAT, HARYANA	A	up to 50000 CMH				
				ALMONAROD (P) LIMITED	CHENNAI	A	Up to 14000 CMH				
		4		I		STEEL AUTHORITY OF INDIA LIMITED	ROURKELA	A		CW,CT,MUW	
						WELSPUN	ANJAR	A	SAW UPTO 2600 NB		
						WELSPUN	BHARUCH	A	SAW UPTO 1300 NB		
						MAN INDUSTRIES	INDORE	A	SAW UPTO 1400 NB		
						SAMSHI	VADODARA	A	SAW 450 TO 2540 NB		
	MUKAT TANKS & VESSELS				TARAPUR	A	SAW 200 TO 1200 NB				
	MUKAT PIPES				RAIPURA	A	SAW UPTO 1800 NB				
	LALIT PIPES AND PIPES LTD				THANE	A	SAW 350 TO 1400 NB				
	RATNAMANI				CHATRAL	A	SAW 600 TO 2600 NB				
	RATNAMANI	KUTCH	A	SAW 400 TO 3600 NB							
	PSL HOLDINGS LIMITED	DAMAN	A	SAW 450 TO 1600 NB							
	PSL INTERNATIONAL LTD.	CHENNAI	A	SAW 450 TO 1600 NB							
	PSL LIMITED	KUTCH	A	SAW 450 TO 1600 NB							
				PSL LIMITED	VISAKHAPATNAM	A	SAW 450 TO 1600 NB				
				JCO PIPES	CHHINDWARA	A	SAW UPTO 1600 NB				
				SURYA GLOBAL STEEL TUBE LTD	ANJAR	A	SAW UP TO 2032 OD				
				CAPACITE STRUCURES PVT LTD	THANE	A	406.4 MM TO 3874 MM OD				
5	PIPES & FITTINGS-GRP	I		EPP COMPOSITES PVT LTD	RAJKOT		UP TO 900MM	WTP,CT			
				GRAPHITE INDIA	NASIK		UP TO 1000MM				
				SHRIRAM SEPL COMPOSITES LTD	CHENNAI		UP TO 1100MM				
				BALAJI FIBER REINFORCE PVT LIMITED	VADODARA		UP TO 650MM				
				MEGHA FIBRE GLASS INDUSTRIES PVT LTD	MEDAK		UP TO 900MM				
				DRIPEX WATER ENGINEERING INTERNATIONAL PVT LIMITED	BHADARBAD	A					
				BGR ENERGY SYSTEMS LTD (ENVIRONMENTAL ENGG. DIV.)	PONNERI	A	UPTO 3000MM DIA & THICKNESS UPTO 28 MM				
				ISHAN EQUIPMENTS PRIVATE LIMITED	VADODARA	A	UPTO 2900 MM DIA & THICKNESS UPTO 28 MM				
				JASMINO POLYMERTECH PVT LTD	TALOJA	A	DIA 2800MM, THICKNESS 25MM DESIGN PRESSURE UP TO 47.5 KSC				
			6	SERVICE VESSEL-CPU & OTHER PR VESSELS >= 10 BAR WORKING PRESSURE	I						



Project/परियोजना: TALCHER-III
Package/पैकेज : EPC
Supplier/आपूर्तिकर्ता:
Contract No./अनुबंध सं.:

INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN
AND SUB-SUPPLIER APPROVAL
वैकल्पिकी स्थान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची
SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)

DOC.NO./दस्तावेज सं.:
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Applicable Systems

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7	PUMPS- HORIZONTAL & VERTICAL CENTRIFUGAL -UP TO 500KW	(UP TO 60 KW CAT-II, ABOVE 60 KW CAT-I)			BELGO POLLUTION CONTROL PVT LTD	GREATER NOIDA	A		UPTO 3200MM DIA & THICKNESS UPTO 30 MM	WTP,CW, CPU,FDPs,CHP, LHP &GHP,AC & VENTILATION,MUW, AHP
					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			
					KISHORE PUMPS	PUNE	A		UPTO 500M3 /HR ONLY RUBBERLINED PUMPS ALSO	
					GRUNDFOS PUMPS INDIA PVT LTD	CHENNAI	A		HORIZONTAL UP TO 30 KW ONLY AND VERTICAL UP TO 45 KW ONLY (FOR	
					SINTECH PRECISION	GHAZIABAD	A		HORIZONTAL UP TO 400 KW MOTOR RATING AND VERTICAL UP TO 30 KW MOTOR RATING	
					KSB	PUNE	A			
					KSB	NASHIK	A			
					FLOWSERVE INDIA CONTROLS PVT LTD	COIMBATORE	A		HOIZONTAL CENTRIFUGAL PUMP UP TO 75 KW ONLY	
					SU MOTOR	MUMBAI	A		HORIZONATL UPTO 500M3 /HR ONLY RUBBERLINED PUMPS AND VERTICAL CENTRIFUGAL PUMPS UP TO 100CMH ONLY	
					BHARAT PUMPS AND COMPRESSORS	NAINI	A		FLOW UP TO 2200 M3 /HR AND HEAD UP TO 60 MWC	WTP, CW
8	PUMPS -VT -UP TO 300KW	1			FLOWMORE LTD	GHAZIABAD	A			
					KIRLOSKAR BROTHERS LIMITED	KIRLOSKARWADI	A			
					WPIL LTD	KOLKATA	A			
					WPIL LTD	GHAZIABAD	A			
					JYOTI LTD	VADODARA	A			
					XYLEM WATER SOLUTIONS INDIA PVT LTD	VADODARA	A			
					FLOWSERVE INDIA CONTROLS PVT LTD	COIMBATORE	A		UP TO 1025 KW	
					SINTECH PRECISION	GHAZIABAD	A			
					WILO MATHER & PLATT	PUNE	A			

	Project / परियोजना - TALCHER-III Package / पैकेज EPC Supplier / आपूर्तिकर्ता: Contract No./ अनुबंध सं.	INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL. स्वातिटी प्लान तथा सब -वेयर के अनुमोदन सहित मदे की सूची	SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)	DOC.NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 04-02-2022 PAGE/ पृष्ठ :	Applicable Systems
	Item / मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	Proposed sub-supplier/ प्रस्तावित उप	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी (NOTE-I)	Remarks/ टिप्पणी
			QP Sub. Schedule क्यूपी स. उप.अनुसू वि	Sub-supplier Details schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	
9.A	Valve-Dual Plate Check > 600mm OR CLASS> 300 (Valve-DUAL PLATE CHECK UP TO 600MM & CLASS 300: CAT-II & MAIN CONTRACTOR APPROVED SOURCES)	I	ADVANCE VALVE PVT LTD	A	DUAL PLATE CHECK VALVES CI UPTO 1000 NB CLASS 125, DUPLEX SS UP TO 600NB CLASS 600.
			LEADER VALVES	A	UP TO 900MM CLASS 150 .SS 200NB CLASS# 300
			R & D MULTIPLE	A	CI/ CS UP TO 800NB PN 10
9.B	Valve-Ball > 100 MM OR CLASS > 800: (Valve- BALL UP TO 100 MM & CLASS 800-CAT-II & MAIN CONTRACTOR APPROVED SOURCES)	I	TRILLIUM FLOW	A	SS BALL VALVES UP TO 500MM AND CLASS #600, CS BALL VALVES UP TO 250 MM AND CLASS# 900, CS/ SS BALL VALVES UP TO 100 MM AND CLASS # 1500.
			MICRO FINISH VALVES PVT. LTD.	A	400NB CLASS#600 AND UP TO 600NB CLASS# 300
			FLOW CHEM INDUSTRIES	A	100NB CLASS#600,200NB CLASS# 300, 50 NB CLASS#800
			L&T VALVES LIMITED	A	UPTO 150NB, CLASS #150/300, AND UPTO 50NB, CLASS #800
			PRECISION ENGG CO VALVES PVT LTD	A	PCS UP TO 50NB CLASS 800, CCS UP TO 400NB CLASS 150.
			BELGAUM AQUA VALVE PVT LTD	A	PCS UP TO 50NB CLASS 800, CCS UP TO 200NB CLASS 150.
			G M ENGINEERING PRIVATE LTD	A	UP TO 400 NB AND CLASS #600
			INTERVALVE POONAWALA LTD	A	SGI / CI / D2 1400MM PN10 , SGI / CI 1000MM PN16,CS/SS 500MM PN16 ,SS 400MM
			TRILLIUM FLOW	A	CJ/DI BUTTERFLY VALVE UP TO 1000MM AND PN16 AND UP TO 1800MM AND PN10CCS UP TO 1050MM CLASS 150 AND UP TO 1800MM AND PN16 SS - UP TO 400NB PN-16 ,FABRICATED 800MM CLASS#150.
			PENTAIR VALVES	A	FOR SS UP TO 500 NB PN-10, CI- UP TO 900NB PN-10, UP TO 500NB PN-16, 450MM CLASS# 300., MS FABRICATED UPTO 2800NB, PN6.
			FOURES ENGINEERING	A	CASST SGI/CJ/ MS FABRICATED- UP TO 1200 PN-10, UP TO 350 PN-16, 2400 MM
			KIRLOSKAR BROTHERS LTD	A	CASST SGI/CJ/CS 1400 MM PN16 , SS 300 MM PN16 , 1800MM CLASS 150, MS FABRICATED 900 NB PN40,MS FABRICATED 2800NB, PN6.
			R & D MULTIPLE	A	CASST SGI/CJ/MS FABRICATED- UP TO 1800 MM PN-10/CLASS # 75 , 1100MM
			ADVANCE VALVES PVT LTD	A	PN25,1400MM CLASS#150.MS.FABRICATED METAL SEATED, TRIPPLE ECCENTRIC, SS BFV OF SIZE UPTO 100NB, AND PRESSURE RATING UPTO CLASS # 300.
			BRAY CONTROLS INDIA PVT. LTD	A	UPTO 450 MM AND CLASS#600
			INSTRUMENTATION LTD.	A	UPTO 2200NB CLASS # 75
			HAWA ENGINEERS	A	CI/ CS & FABRICATED UPTO 1200MM, CLASS # 150, SS UPTO 250MM, CLASS# 150
			CRANE PROCESS FLOW	A	UP TO 900MM PN10
9.C	Valve-Butterfly > 600mm OR CLASS>150 (Valve- BUTTRELY UP TO 600MM & CLASS 150::CAT-II & MAIN CONTRACTOR APPROVED SOURCES)	I			WTP, CW,CT,CPU,FDPSCAS, ACK< VENTILATION, MUWGHP, LHP&GHP,LIP PIPING,AHP

Project/परियोजना : TALCHER-III Package/पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्वागिटी प्लान तथा सब-वेयर के अनुमोदन सहित मर्दों की सूची SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)		DOC.NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 04-02-2022 PAGE/ पृष्ठ :		Applicable Systems			
Item / मर्द	QP / Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी सं.	QP Sub. Schedule क्यूपी उप-अनुसू वि	Proposed sub-supplier/ प्रस्तावित उप	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी (NOTE-1)	Sub- supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	
9.D	VALVE-CONVENTIONAL GATE / GLOBE / CHECK > 600NB OR CLASS > 300			अपूर्तिकर्ता L & T VALVES LIMITED DEMBLA VALVES	COIMBATORE THANE	A A		UP TO 900MM CLASS 150 UP TO 2200MM CLASS#75	WTP, CW/CT,CPU,FDPs,CAS, AC&VENTILATION, MUW,CHP, LHP&GHP,LP PIPING,AHP
				LEADER VALVES	JALANDHAR	A		CS GATE 600MM CLASS#600,SS GLOBE 600MM CLASS#600, CS CHECK 600MM AND CLASS#600. FCS / FSS 50 NB CLASS 800. 400NB CLASS 600 AND 50NB CLASS 800. GATE UP TO 300 NB CLASS 600. GLOBE 250 NB CLASS 400, CHECK 150NB CLASS 600.	
				HAWA ENGINEERS FOURES ENGINEERINGS BHEL IVP	AHMEDABAD THANE GOINDWAL	A A A			
				HITECH ENGG PVT LTD KSB PUMPS LTD NITON VALVES INDIA PVT LTD	AHMEDABAD COIMBATORE NAVI MUMBAI / AURANGABAD HU BLI	A A A A A			
				L&T VALVES LIMITED TRILLIUM FLOW		A		50 NB CLASS 800. 300NB CLASS 2500. CS GATE 900 NB CLASS 600, CHECK 300 NB CLASS 600. 650 MM CLASS 600, 50 NB CLASS 800. CONVENTIONAL CGS GATE / GLOBE / CHECK VALVES UP TO 600MM AND CLASS # 1500, CSS GATE/ GLOBE/ CHECK VALVES UP TO 200MM AND CLASS # 600, FCS GATE / GLOBE / CHECK VALVES UP TO 50MM AND CLASS # 2500.	
9.E	VALVE- DIAPHRAGM TYPE			CRANE PROCESS FLOW WEIRBUDK PROCON ENGINEERS	SATARA HU BLI MUMBAI	A A A		UP TO 300NB PN10 UPTO 250 NB - PN 10, 350MM PNG UPTO 200 NB AND PN 10/CLASS # 150	WTP,CPU
9.F	VALVE-PLUG > 100 MM OR CLASS > 800(VALVE- PLUG UP TO 100 MM & CLASS 800;CAT-II & MAIN CONTRACTOR APPROVED SOURCES)			TRILLIUM FLOW	HU BLI	A		SOFT SEATED 400MM AND CLASS # 150, 300NB CLASS# 300 UP TO 600MM AND CLASS#300 METALLIC SEATED 400NB CLASS# 150, 300NB CLASS #300, 50NB CLASS #800 130 KW UP TO 235 KW	WTP,CPU,CHP, LHP&GHP, FOH,AHP
10	PUMP-SUBMERSIBLE= 30KW			XOMOX SANMAR FLOWSERVE INDIA CONTROLS KSB KIRLOSKAR BROTHERS LTD AQUA MACHINERY	TRICHY CHENNAI NASHIK KIRLOSKARWADI AHMEDABAD	A A A A A			WTP,CT, CPU,CHP, LHP&GHP, FOH,AHP,LP PIPING,FDPs
11	RUBBER EXPANSION JOINT>=1600NB (RUBBER EXPANSION JOINT < 1600NB: CAT-II & MAIN CONTRACTOR APPROVED SOURCES) FAN ASSEMBLY-COOLING TOWER			WPIL CORI ENGINEERS PVT LTD	GHAZIABAD CHENNAI	A A		UP TO 2800 MM	ACW, ECW, CW,CT
12				SRM EXOFLEX PVT LTD PAHARPUR COOLING TOWERS LTD PAHARPUR COOLING TOWERS LTD PAHARPUR COOLING TOWERS LTD	KOLKATA SAHIBABAD BHASA KOLKATA	A A A A		UP TO 2800 MM WITH SOLID FAN BLADES 288" AND 336 " DIA, WITH FOAM CORED FAN BLADES WITH 10 METERS AND 10.97 METERS 60" TO 288" FAN DIA 60" TO 288" FAN DIA	CT

Project/ परियोजना : TALCHER-III Package/ पैकेज : EPC Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्वागतिदी 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 : 04-02-2022 PAGE/ पृष्ठ :		Applicable Systems				
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	I			आपूर्तिकर्ता M/S COFIMCO FAN (CHANGSHU) CO. LTD.	CHINA	A		UP TO 11 METER FAN DIA		
				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	
13	GEAR BOX -COOLING TOWER									
	I			PAHARPUR COOLING TOWERS LTD	KOLKATA	A				
				NEW ALLENBERRY WORKS	KOLKATA	A				
				ELECON ENGINEERING	VALLABH VIDYANAGAR	A				
				PREMIUM ENERGY TRANSMISSION LTD.	FALTA	A				
14	DRIVE SHAFT-CARBON FIBRE -COOLING TOWER			M/S EUROFLEX TRANSMISSION (INDIA) PVT LTD	HYDERABAD	A			CT	
	II			PAHARPUR COOLING TOWERS LTD	SAHIBABAD	A				
				M/s AMALGAMATED INDUSTRIAL COMPOSITES PVT LTD	NASHIK	A				
				NORTH STREET COOLING TOWERS	GHAZIABAD	A				
				PAHARPUR COOLING TOWERS LTD	SAHIBABAD	A			CT	
15	DRIVE SHAFT SS-COOLING TOWER									
	II			PAHARPUR COOLING TOWERS LTD	KOLKATA	A				
				NORTH STREET COOLING TOWER	GHAZIABAD	A				
				KIRLOSKAR BROTHERS LIMITED	KIRLOSKARWADI	A		BOTH CV & VT TYPE	CW	
				WPIL LTD	KOLKATA	A		BOTH CV & VT TYPE		
	I			FLOWERVE INDIA CONTROLS PVT LTD	COIMBATORE	A		CV TYPE ONLY		
				FLOWMORE LTD	GHAZIABAD	A		VT TYPE ONLY		
				XYLEM WATER SOLUTIONS INDIA PVT LTD	VADODARA	A		VT TYPE ONLY		
				JYOTI LTD	VADODARA	A		VT TYPE ONLY.		
17	ELECTRO HYDRAULIC ACTUATOR FOR CW PUMP DISCHARGE BUTTERFLY VALVE			BOSCH REXROTH (INDIA) PVT LTD	SANAND	A		HYDRAULIC POWER PACK AND HYDRAULIC CYLINDER (320 MM BORE DIA) .	CW	
	I			HYDAC (INDIA) PVT. LTD	COIMBATORE	A		HYDRAULIC POWER PACK-HYDAC COIMBATORE. HYDRAULIC CYLINDER-HYDAC		
				ISGEC	MUZAFER NAGAR	A		FINISHED CASTING UP TO 4.0 MT APPROX	CW	
				THE KOLHAPUR STEEL LTD,	KOLHAPUR	A		FINISHED CASTING UP TO 4.0 MT APPROX		
				WESTERN PRECAST PVT LTD	SANGLI	A		FINISHED CASTING UP TO 3.5 MT APPROX		
	II			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		
				MATHER FOUNDRY LTD	UK	A		FINISHED CASTING UP TO 3.6 MT APPROX		



Project/ परियोजना : TALCHER-III
Package/ पैकेज : EPC
Supplier/ आपूर्तिकर्ता:
Contract No./ अनुबंध सं.:

INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN
AND SUB-SUPPLIER APPROVAL
वैकल्पिकी योजना तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची
SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)

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19	SHAFT-FORGING -CW PUMP	II			आपूर्तिकर्ता GORADIA SPECIAL STEELS LTD	KHAROLI	A			CW
					BHARAT FORGE	PUNE	A			
					CFFP,BHEL	HARIDWAR	A		UP TO DIAMETER 290MM AND LENGTH APPROX. 3000MM, GRADE SS410	
20	THRUST BEARING FOR CW PUMP				MICHEL	BANGLORE	A			CW
		I			KMP	GREATER NOIDA	A			
21	DELUGE VALVE WITH TRIMS	I			HD FIRE	THANE/JALGAON	A			FDFS
					CARRIER	GURGAON	A		FOR PISTON TYPE DELUGE VALVE ONLY	
					ANSUL	USA	A			FDFS
22	INERT GAS EXTINGUISHING SYSTEM				KIDDE (GINGEKERR)	UK	A			
		II			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			FDFS
					HD FIRE	JALGAON	A			
					HD FIRE	JALGAON	A			FDFS
24	FOAM SYSTEM(BLADDER TYPE)				FIRETECH	RATNAGIRI	A			
25	FIRE TENDER	I			WADIA BODY BUILDERS	AHEMDABAD	A			FDFS
					AAREL INDUSTRIES	INDORE	A			
					AMBALA COACH	AMBALA	A			
					VIJAY FIRE	UMBERGAON	A			
26	CENTRIFUGAL FAN (≥ 5KW) MOTOR FROM NTPC ACCEPTED SOURCE	I			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	
		I			CB DOCTOR VENTILATOR PVT LTD	AHMEDABAD	A		UP TO 150000 CMH	
					WOLTER VENTILATORS INDIA (P) LTD	BHIWADI,	A		UP TO 200000 CMH	
					C DOCTOR &CO PVT LTD	KOLKATA	A		UP TO 250000 CMH	
					SIVIDHA AIR ENGINEERS	AHMEDABAD	A		UP TO 190000 CMH	

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				आपूर्तिकर्ता	KOLKATA	A	UP TO 100000 CMH			
				SUBURBAN INDUSTRIAL WORKS PVT. LTD	THANE	A	UP TO 90000 CMH			
				KRU GER VENTILATION INDUSTRIES (I) PVT LTD	KOLKATA	A	UP TO 200000 CMH			
				SOLVENT FLAKT	SONEPAT	A	UP TO 250000 CMH			
				ADVANCE VENTILATION PVT LTD	SONEPAT	A	UP TO 250000 CMH			
27	DIESEL ENGINE	I		SK SYSTEMS PVT LTD	PUNE	A	Up to 2000 KVA		DG SET,FDPS	
				CUMMINS	AURANGABAD	A	UP to 313 HP			
				PERKINS	AURANGABAD	A	Up to 1750 KVA			
				GREAVESS COTTON	AURANGABAD	A				
28	3 LPE COATED PIPE	I		SAIL	ROURKELA	A			MUW	
				RATNAMANI	KUTCH	A	UP TO 1100 NB			
				PSL LTD	KUTCH/VIZAC	A	UP TO 1100 NB			
				TRANTER INDIA	PUNE	A	HT PLATES & GASKETS FROM TRANTER SWIDEN /USA HT PLATES FROM HISKA JAPAN			
				KELVION INDIA PVT LTD	PUNE	A				
29	PLATE HEAT EXCHANGER	I		ALPHA LAVAL	SATTARA	A	HT PLATES & GASKETS FROM ALPHA LAVAL SWIDEN		ECW	
				IDMC	ANAND	A	HT PLATES & GASKETS FROM SONDEX DENMARK			
				SONDEX INDIA	VADODARA	A	HT PLATES FROM SONDEX DENMARK/INDIA (MODEL S188)			
				JINDAL SAW(161)	KUTCH	A	UP TO DN 900 CLASS K7 & K9			
				JAI BALAJI(1156)	BARDWAN	A	UP TO DN 900 CLASS K7 & K9			
30	D(Ductile Iron) PIPE & FITTINGS	I		ELETRO STEEL	KOLKATA	A			MUW	
				NGERSOLL RAND INDIA	AHMEDABAD	A	Capacity Upto 60 NM3 /Minute @ Pr-8 bar			
				KIRLOSKAR PNEUMATIC COMPANY LTD	PUNE	A	Capacity up to 45.3 Nm3 /min and pressure rating up to 9.3 kg/cm2			
				ATLAS COPCO	Pune (Dapodi)	A				
				INGERSOL RAND INDIA	AHMEDABAD	A	UPTO MODELISH 300 (36 NM3/MIN) . AIR ENDS FROM GHH RAND - GERMANY & OTHER			
31	AIR COPMPRESSOR: OIL FREE CENTRIFUGAL COMPRESSOR	I		ELGI	COIMBATORE	A	UPTO 2830 CFM, AIR ENDS FROM HITACHI-JAPAN, ASSEMBLY AND TESTING AT ELGI		CAS, CHP, LHP, GHP, MRHS, AHP	
				KIRLOSKER PNEUMATIC COMP LTD	PUNE	A	JAPAN, ASSEMBLY AND TESTING AT ELGI FLOW CAPACITY 45.3 NM3 /MIN . AND PRESSURE RATING 9.3 KG/CM2			
				SUMMIT'S HYGRONICS	COIMBATORE	A	FOR REFRIGERANT DRYER, 11893 M3 /HR. , REGENERATIVE DRYERS BLOWER			
				MELICON ENGRS PVT LTD	GR NOIDA	A	Refrigerant type 60 m3/hr & REGENERATIVE DRYERS HOC TYPE 2548 M3/HR			
				DELAIR INDIA LTD	GURGAON	A	Refrigerant type 7500 m3/hr & REGENERATIVE DRYERS HOC TYPE 3000			
32	SCREW TYPE AIR COMPRESSORS	I		SUMESH PETROLEUM	VADODARA	A	100 CFM(169 M3/HR) & 7 KG/CM2		CAS	
				TRIDENT PNEUMATIC PVT LTD	COIMBATORE	A	Refrigerant type 10000 m3/hr & REGENERATIVE DRYERS BHR TYPE 1000			
				KIRLOSKAR CHILLER	PUNE	A	UP TO 350TR			
				DAIKIN	NEEMRANA	A	UP TO 185 TR			
33	AIR DRYER	I								
34	SCREW CHILLER	II							AC& VENTILATION	

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35	Metallic Expansion Bellows	II			आपूर्तिकर्ता BLUE STAR (COMPRESSOR FROM HANBEL-TAIWAN)	WADA	A		SCREW CHILLER UP TO 282TR	
				MB METTALIC BELLOWES	CHENNAI	A				
				SUR Industries	KOLKATA	A			MRHS	
				LONE STAR	CHENNAI	A				
36	Conveying Compressor (Reciprocating)	I			KIRLOSKAR PNEUMATICS	PUNE	A			
				INGERSOLL RAND	AHEMDABAD	A			MRHS	
				ATLAS COPCO(CHICAGO PNEUMATIC BRAND)	PUNE	A				
				CRAWLEY & RAY	KOLKATA	A				
37	ALLOY CAST IRON PIPE, FITTINGS AND LINER	I								
				ALLIED FOUNDRIES	BELGAUM	A				
				PARAMOUNT CASTINGS	NAGPUR	A				
				NORTHERN ALLOY	BHAVNAGAR	A				
				MENON METALLIK	KOLHAPUR	A			MRHS, AHP	
				KOLHAPUR STEEL	KOLHAPUR	A				
				AQUA ALLOY	KOLHAPUR	A				
				MARTO PEARL	HYDERABAD	A				
				R.R.L	HOWRAH	A				
				CONCAST ENGINEERING	BURDWAN, WB	A				
				NATRAJ IRON & CASTINGS	DHANBAD	A				
				ABHIPRIYA BUSINESS	PANT NAGAR	A				
38	DRY ASH UNLOADING CHUTE	I			MELCO	FARIDABAD				
				MACAWBER BEEKAY	KESHWANA	A			AHP	
				MINING AND MATERIAL HANDLING EQUIPMENT	KOLKATA	A				
				DCL	HYDERABAD	A				
39	BAG FILTER / SILO VENT FILTER				FLAKT	KOLKATA	A			

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	II			आपूर्तिकर्ता	KOLKATA	A			AHP,MRHS		
				ORIENT FANS (ACCO)	PUNE	A					
				THERMAX	PUNE	A					
				RIECO		A					
				MELCO	FARIDABAD	A					
				MCNALLY SAVAJI	ASANSOL/KUMARDHULI	A					
				MACAWBER BEEKAY	KESHWANA	A					
40				TAP ENGINEERING	KANCHEEPURAM	A					
				SUMMIT'S HYGRONICS	COIMBATORE	A				Upto 11893 m3/hr	
				TRIDENT	COIMBATORE	A				Upto 10000 m3/hr	
				MELLCON	GREATER NOIDA	A				Upto 7250 m3/hr	
				DELAIR	GURGAON	A				Upto 7500 m3/hr	
				ATLAS COPCO	BELGIUM	A				Upto model FD 1200. ASSEMBLY AND TESTING AT PUNE	
				KAKATI KARSHAK	HYDERABAD	A					
41				VACUNAIR	AHEMDABAD	A			AHP		
				DECCAN MECHANICAL & CHEMICAL	BARAMATI	A					
				ENVIRO ABRASION	PUNE	A				CST BASALT LINERS FROM SCHOLTEN GmbH-GERMANY	
				TURBO ENGINEERS	COIMBATORE	A				CST BASALT LINERS FROM KALENBORN - GERMANY/POLAND OR EUTIT - Czech Republic	
				GOENKA CAST ENGINEERING(I) PVT LTD	DURG	A				UP TO 350 NB	
				BMW STEEL	ROORKEE	A				UP TO 550 NB	
				BRAY CONTROLS INDIA PVT LTD, VAAS KNIFE GATE VALVE DIVISION	CHENNAI	A				UPTO PN 10 RATING	
43				FOURESS ENGINEERING	BANGALORE	A			AHP		
				ORBINOX	COIMBATORE	A				UPTO PN 16 RATING	
				WEIR MINERALS	BANGALORE	A				UPTO 12" PN 10 RATING	
				BRAY CONTROLS INDIA PVT LTD, VAAS KNIFE GATE VALVE DIVISION	CHENNAI	A					
				FOURESS ENGINEERING	BANGALORE	A					
				ORBINOX	COIMBATORE	A					
				JASH SCHUTTTE	INDORE	A					
44				ELECTROSTEEL	CHENNAI	A			AHP		
				KESORAM	KOLKATA	A				UPTO 450 NB	
				JISCO	KULTI	A				UPTO 350 NB	
				KAPILANSH DHATU UDYOG	NAGPUR	A				APPROVED UPTO 300 NB.	
				KUSHALAVA	VIJAYWADA	A				FOR NON STD. SIZE	
				SAM INDUSTRIAL PUMPS	COIMBATORE	A					
45											
46			I			A			AHP		



Project/परियोजना : TALCHER-III
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INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN
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47	AIR LOCK FEEDER VESSEL / BOTTOM ASH OVERFLOW TANK/MIXING TANK/COARSE ASH TANK/ AIR OIL CONVERTOR TANK, AIR INTAKE VALVE	II			आपूर्तिकर्ता WEIR MINERALS	AUSTRALIA	A		MANUFACTURING AT WEIR MINERALS BANGALORE	
					MELCO	FARIDABAD	A			
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A		AIR OIL TANK- ASANSOLE .AIR INTAKE VALVE- KUMARDUBHI	AHP
					MACAWBER BEEKAY	KESHWANA	A			
48	BOTTOM ASH HOPPER / BUFFER HOPPER/DUST COLLECTOR	I			आपूर्तिकर्ता MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			
					MELCO	FARIDABAD	A		ONLY FOR BUFFER HOPPER AND DUST COLLECTOR	AHP
					MACAWBER BEEKAY	KESHWANA	A			
					MELCO	FARIDABAD	A			
49	CLINKER GRINDER	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			
					L&T	KANSBAHAL	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
					MELCO	FARIDABAD	A			
50	FLY ASH HOPPER/VALVE/ASH INTAKE VALVE/FLY ASH DIFFUSER / DRIVE ARRANGEMENT FOR CLINKER GRINDER	II			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			
					L&T	KANSBAHAL	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
					MELCO	FARIDABAD	A			
51	FLUIDIZING PAD // FLUSHING APPARATUS	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			
					L&T	KANSBAHAL	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
					MELCO	FARIDABAD	A			
52	FLY ASH STORAGE SILO/HCSO SILO	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			
					MACAWBER BEEKAY	KESHWANA	A			AHP
					MELCO	FARIDABAD	A			
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			
53	FEED SUMP / VACUUM BREAKER	I			MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			
					MACAWBER BEEKAY	KESHWANA	A			AHP
					MELCO	FARIDABAD	A			
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			
54	FLY ASH HEADER VALVE/BRANCH HEADER VALVE / AIR INTAKE VALVE /EQUALISING VALVE /PLUG GATE FOR SUMP ISOLATION	I			MCNALLY SAYAJI	FARIDABAD	A			
					L&T	KUMARDHUBI	A			
					MACAWBER BEEKAY	KANSBAHAL	A			AHP
					MELCO	KESHWANA	A			
55	HYDROMIX DUST CONDITIONER/ROTARY FEEDER	I			MCNALLY SAYAJI	FARIDABAD	A			
					MELCO	ASANSOL/KUMARDH UBI	A			
					MACAWBER BEEKAY	KESHWANA	A			AHP
					L&T	KANSBAHAL	A			



Project/परियोजना : TALCHER-III
Package/पैकेज : EPC
Supplier/आपूर्तिकर्ता:
Contract No./अनुबंध सं.:

INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN
AND SUB-SUPPLIER APPROVAL.
स्वाक्षिती प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची
SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)

DOC. NO./दस्तावेज सं.:
REV. NO.:
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S. N. क्र.सं.	Item / मद	QP / Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	QP Sub. Schedule क्यूपी उप.अनुसू. चि	Proposed sub-supplier/ प्रस्तावित उप	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी (NOTE-1)	Sub- supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	Applicable Systems
56	JET PUMP / JETTING NOZZLE	I			EXPONENTIAL ENGINEERING	PUNE	A			
					MELCO	FARIDABAD	A		JET PUMP / JETTING NOZZLE	
					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	
57	COLLECTOR TANK / AIR WASHER / WETTING HEAD / SURGE / SETTLING TANK	I			MELCO	FARIDABAD	A			
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
58	PLATE VALVE AT DYKE END	I			MELCO	FARIDABAD	A			
					MCNALLY SAYAJI	ASANSOL/KUMARDH UBI	A			AHP
					MACAWBER BEEKAY	KESHWANA	A			
59	DESSICANT TYPE AIR DRYER	I			DELAIR	GURGAON	A			
					INDCON	DELHI	A			
					MELCON	GREATER NOIDA	A			AHP
					SUMMIT'S HYGRONICS	COIMBATORE	A			
					TRIDENT	COIMBATORE	A			
					MCNALLY	KUMARDHUBI / ASAN	A			
					L&T	KANCHEEPURAM	A			
60	STACKER RECLAIMER & RECLAIMER	I			THYSSENKRUPP	PUNE	A			
					ELECON	VV NAGAR	A			
					TRF	JAMSHEDPUR	A			CHP
					SANDVIK	PUNE	A			
					PROMAC	BANGALORE	A			
					HUNAN CHANGZHONGMACHINERY CO. LTD	CHINA	A			
					THYSSENKRUPP	HYDERABAD	A		* Hyderabad works approved for some of assemblies for Stacker Reclaimer - Counter	
					ELECON	VV NAGAR	A			
					FAMAK S.A. (IN ASSOCIATION WITH MBE-ASANSOL)	POLAND	A			
					L & T	KANSBAHAL	A			
61	WAGON TIPPLER & SIDE ARM CHARGER	I			THYSSENKRUPP	PUNE	A			CHP
					TRF	JAMSHEDPUR	A			
					PROMAC	BANGALORE	A			
					THYSSENKRUPP	HYDERABAD	A			
					L&T	KANSBAHL	A			
62					ELECON	VV NAGAR	A			



Project/परियोजना: TALCHER-III
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 मदों की सूची
SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)

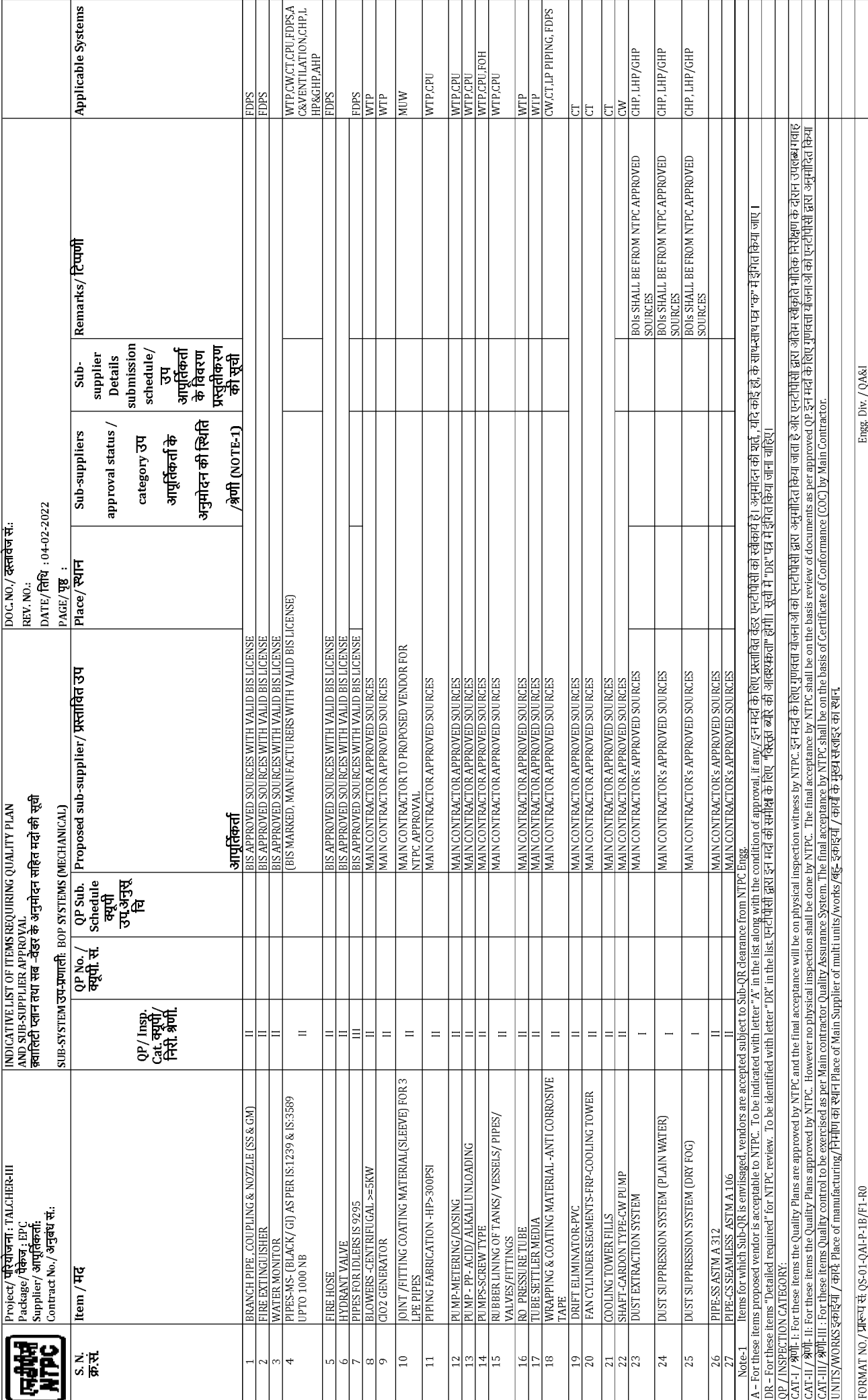
DOC.NO./ दस्तावेज सं.:
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S. N. क्र.सं.	Item / मद्	QP/ Insp. Cat.क्यूपी/ निरी.श्रेणी.	QP No./ क्यूपी.सं.	QP Sub. Schedule क्यूपी उप.अनुसू. चि	Proposed sub-supplier/ प्रस्तावित उप	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी (NOTE-1)	Sub- supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी	Applicable System
		I			आपूर्तिकर्ता	JAMSHEDPUR	A		UPTO 2400 TPH Extended Warranty of 3 years over & above of contractual warranty on parts other than the parts treated as consumables	CHP
63					MCNALLY SAYAJI PENNSYLVANIA CRUISHERCORPORATION AMERICAN PULVERISER THYSSENKRUPP	KUMARDHUBI USA USA PUNE	A A A A		UPTO 2200 TPH UP TO 1760 TPH UPTO 1875 TPH UP TO 2035 TPH	
	RING GRANULATOR	I			TRF	JAMSHEDPUR	A		UP TO 1800 TPH TRF shall give extended warranty of 5 years over & above Contractual Warranty	CHP
					L&T ELECON	KANSBAHAL VV NAGAR	A A		UP TO 1600 TPH UP TO 1320 TPH	
64.A					MCNALLY SAYAJI TECHNO VIBRAZIONI ELECON	KUMARDHUBI ITALY VV NAGAR	A A A		UPTO 1000 TPH UPTO 1875 TPH UP TO 1320 TPH	
	VIBRATING SCREEN FEEDER	I			GENERAL KINEMATICS THYSSENKRUPP TRF	USA PUNE JAMSHEDPUR	A A A		UP TO 2000TPH UP TO 2035 TPH UP TO 1800 TPH TRF shall give extended warranty of 5 years over & above Contractual Warranty	CHP
64.B					MCNALLY SAYAJI TECHNO VIBRAZIONI ELECON	KUMARDHUBI ITALY VV NAGAR	A A A		UPTO 1210 TPH UPTO 1875 TPH UP TO 1320 TPH	
	VIBRATING FEEDER	I			GENERAL KINEMATICS THYSSENKRUPP TRF	USA PUNE JAMSHEDPUR	A A A		UP TO 2000TPH UP TO 1800 TPH TRF shall give extended warranty of 5 years over & above Contractual Warranty	CHP
65					MCNALLY SAYAJI INTERNATIONAL COMBLUSTION Electro Zavorod Elektromag loest BENGAL TOOLS	KUMARDHUBI NAGPUR Kolkata Vapi KOLKATA	A A A A A		UPTO 1210 TPH UPTO 400TPH UP TO 750 TPH	
	TRAVELLING TRIPPER	I			THYSSENKRUPP ELECON MBE TRF HMTc L & T - MACNIL L & T L & T - EWL PHOENIX CONVEYOR BELT	PUNE / HYDERABAD VV NAGAR KUMARDHUBI JAMSHEDPUR KOLKATA CHENNAI KANSBAHAL KANGCHEEPURAM KOLKATA	A A A A A A A A			CHP
66					IMASS S.A	GREECE	A		FABRIC BELT UPTO 2200 MM WIDTH,STEEL CORD BELT (FR GRADE UPTO 2400 MM WIDTH) FABRIC BELT UPTO 2400 MM WIDTH , STEEL CORD BELT (FR GRADE UPTO 2400 MM WIDTH	
					MRF SEMPELTRAN NIRON HINDUSTAN RUBBER NORTHLAND RUBBER SOMI CONVEYOR RAVASCO TRANSMISSION LTD. ORIENTAL RUBBER	CHENNAI MUMBAI SILVASA SONEPAT JODHPUR VAPI PUNE	A A A A A A A		FABRIC BELT UPTO 1600 MM WIDTH FABRIC BELT UPTO 1600 MM WIDTH FABRIC BELT UPTO 1600 MM WIDTH FABRIC BELT UPTO 2200 MM WIDTH. FABRIC BELT UPTO 2000 MM WIDTH FABRIC BELT UPTO 2200 MM WIDTH , STEEL CORD BELT (FR GRADE UPTO 2000 MM WIDTH) FABRIC BELT UPTO 2000 MM WIDTH , STEEL CORD BELT (FR GRADE UPTO 2000 MM WIDTH)	CHP, LHP/GHP

[illegible]

INDICATIVE LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची					
SUB-SYSTEM उप-प्रणाली: BOP SYSTEMS (MECHANICAL)					
S. N. क्र.सं.	Item / मद	QP No./ क्यूपी. सं.	QP Sub. Schedule क्यूपी उप.अनुसू वि	Proposed sub-supplier/ प्रस्तावित उप	DOC.NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 04-02-2022 PAGE/ पृष्ठ :
		QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.			
73.B	LIMESTONE SAMPLING SYSTEM	I		आपूर्तिकर्ता EAST MAN CRUSHER	KOLKATA
				ERIEZ MAG EUROPE LTD	UK
				SIEVE TECHNIK	GERMANY
				THERMO RAMSAY INC	USA
				ADVANCE SYSTEMS SAMPLING	KOLKATA
74	HYDRAULIC POWER PACK	I		EATON POWER	PUNE
				BOSCH-REXROTH	AHMEDABAD
				MAHA HYDRAULICS	CHENNAI
				L & T HYDRAULICS	BANGALORE
				Hydac	COIMBATORE
				VELJAN	HYDERABAD
				WIPRO	BANGALORE
				EATON POWER	PUNE
				L & T HYDRAULICS	BANGALORE
				BOSCH-REXROTH	AHMEDABAD
				Hydac	COIMBATORE
				POCLAIN HYDRAULICS	FRANCE
				BOSCH-REXROTH AB (FORMERLY HAGGLUNDS)	SWEDEN
				PARKER CALZONI	ITALY
				MAHA HYDRAULICS	CHENNAI
				KAWASAKI	UK
				INTERNATIONAL COMBUSTION	NAGPUR
				MCMALLY SAYALI	BARODA
				MCMALLY SAYALI	KUMARDHUBI
				ELEGON	V V NAGAR
				THYSSENKRUPP INDUSTRIES INDIA	PUNE
				ECOMAN	BARODA
				INDIANA GRATINGS PVT. LTD.	PUNE
				INDIAL STEEL & POWER LTD.	RAIGARH
				BABy ENGG. PVT. LTD.	TRICHY
				REGIONAL ENGG. WORKS	TRICHY
				AIANTHA FABs	MATHURA
				CAPACITE STRUCTURES LTD.	THANE
				MUIRA INFRASTRUCTURE PVT. LTD.	BHILAI
				SHIVAM HITECH STEELS PVT. LTD	BHILAI
				TECHNOFAB MANUFACTURING LTD.	CHENNAI
				ISW SEVERFIELD STRUCTURES LTD(SSL)	BELLARY
				ALLIANCE INTEGRATED METALIKS LTD(AIML)	RAJPURA
				ATMASTICO PVT LTD	DURGAPUR
				APEX BUILDsys LTD	NAGPUR
				COREFAB PROJECTS PVT LTD	BHILAI
				KOTHARI CHEMICALS	BHILAI
				FEDDERS LLOYD CORPORATION LTD	SIKANDRABAD
				ARCOLOR MITTAL DHAMM PROCESSING PVT LTD	RANIPET
				ARTSON ENGINEERING	NASIK
				ARTSON ENGINEERING	NAGPUR
				HEAVY ENGINEERING WORKS	REWLA MP
				ARCELOMITTAL NIPPON STEEL INDIA LTD CHENNAI	
				TRIDENT FABRICATORS PVT LTD	BOURKEALA
				GREAT INDIA STEEL FABRICATORS	YAMUNA NAGAR
				METALFAB HITECH	NAGPUR
				SUPERTECH INDIA	G.NOIDA
				GOODLUCK STEEL	SIKANDRABAD
				THYSSENKRUPP INDUSTRIES INDIA	HYDERABAD
ITEM WITH MAIN CONTRACTOR / BIS APPROVED SOURCES.					



		Project/संस्करण : Talcher -III Package/पैकेज : TALCHER III EPC PACKAGE Supplier/सप्लायर : Contract No./अवकाश :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL आशिके गुन गुन सब -सुप्लायर के अनुमति मांगि मांगि की सुची SUB-SYSTEM/अवकाशके ELECTRICAL				Doc.No./संस्करण : REVISION NO.: 01 DATE/दिनांक : 03.02.2022	
		S. N. क्र.सं.	Item / वस्तु	Q/I/Insp. Cat. वर्ग/प्रति. श्रेणी	Q/I No./ वर्ग. सं.	Q/I Sub, Schedule वर्ग अवकाश	Proposed sub-supplier/ प्रस्तावित सब-सप्लायर	Place/स्थान	Sub-supplier approval status/ अनुमति के विवरण की सुची	Sub-supplier Details sub sch/ अनुमति के विवरण की सुची	Remarks/टिप्पणी
1	GENERATOR			CAT I							
							BHEL	Hardwar	A		
							Siemens	Germany	A		
							GE	Sanand	A		
							GE	POLAND	A		
							MELCO	JAPAN	A		
							LMTG	Hazira	A		
							Hirachi	Japan	A		
							Toshiba	Japan	A		
							TJPS	Chennai	A		
2	IPBD			CAT I							
							BHEL	Rudrapur	A		
							C&S ELECTRIC	Hardwar	A		
3	Power Transformers (400 KV)			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	
							TELK	Angamally	A	Up to 400 KV Class	
4	Shunt Reactor (400 KV)			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	

				Project/समस्या : Talcher - III Package/भाग : TALCHER III EPC PACKAGE Supply/आपूर्ति Contract No./अवकाश:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सब-सप्लायर के अनुमति पत्रों की सूची SUB-SYSTEM/प्रणाली: ELECTRICAL				Doc No./संख्या: REVISION NO.: 01 DATE/दिनांक : 03.02.2022
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Talcher III NTPC Project/Contract: Talcher-III Package/Item: TALCHER III EPC PACKAGE Supplied/अपूर्ति Contract No./अपूर्ति: Doc.No./amend. no: REVISION NO.: 01 DATE/दिनांक: 03.02.2022									
LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL. आवांछित गुण तथा स्तर - स्तर के अनुसार नीचे दर्शाए गए हैं। SUB-SYSTEM/प्रणाली: ELECTRICAL									
S. No. क्र.सं.	Item / वस्तु	QP/Insp. Cat. श्रेणी/प्रति. श्रेणी	QP No. / श्रेणी सं.	QP Sub- Schedule श्रेणी उप-श्रेणी	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval category / उप-आपूर्तिकर्ता के अनुमोदन की श्रेणी/प्रति. श्रेणी	Sub-supplier Details sub sch/ उप-आपूर्तिकर्ता के विवरण प्रस्तुतिकरण की श्रेणी	Remarks/टिप्पणी
8.1	Fast Bus Transfer panel along with relay	CAT I							
					Aartech	Parwanoo	A		conditions apply
					ABB	Vadodara	A		conditions apply
					SEL	Delhi	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/66KV
					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
					WEG	HOSUR	A		UPTO 11KV 14 MW
					BHEL	BHOPAL	A		RQP
					HYUNDAI	KOREA	A		UPTO 11KV 17 MW
					TECO	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 CONVERTEAM 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
					ILJIN	KOREA	A		UPTO 11KV 2900 KW, 6.6KV 2500 KW
					JYOTI	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

Project/संकेत: Talcher -III Package/बैक: TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता Contract No./अनुबंध:													LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL ज्ञापित करने वाले सब-सप्लायर के अनुमति लेने वाले की सूची SUB-SYSTEM उप-प्रणाली ELECTRICAL											
S. N. क्र.सं.	Item / वस्तु	Q/I Insp. Cat. बचपन/निर्माण श्रेणी	Q/I No./ बचपन सं.	Q/I Sub. Schedule बचपन अनुबंध	Proposed sub-supplier/ अनुबंधित उप-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval category उप-आपूर्तिकर्ता के अनुमति की स्थिति / श्रेणी	Sub-supplier Details sub sch/ उप-सूची	Remarks/टिप्पणी															
					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															
10	H.T. CABLE upto 33KV	CAT I			CGL (PLOT 9)	MANDIDEEP	A		UPTO 11 KV 4MW FOR PUMP /FAN /COMPRESSOR															
					CG ELECTRIC SYSTEM	HUNGARY	A		UPTO 3.3 KV 1100 KW															
					TMEIC	BENGALURU	A		UPTO 11 KV 5000 KW															
					Apar Industries	Umbergaon	A																	
					Genscab	Bhiwadi	A																	
					Gupta Power	Kashipur	A																	
					Havells India Ltd.	Alwar	A																	
					KEC International	Vadodara	A																	
					KEI Industries	Bhiwadi	A																	
					Krishna Electrical Industries Ltd	Gwalior	A		Up to 11KV only															
					Polycab Wires Pvt. Ltd	Daman	A																	
					Sri ram Cables	Bhiwadi	A		Up to 11KV only															
					Tirupati Plastomatics	Jaipur	A		Up to 11KV only															
					Torrent Cable Ltd	Nadiad	A																	
					CMI	Baddi	A																	
					Universal Cable Ltd.	Satna	A																	

		Project/संकेत : Talcher - III Package/बैक : TALCHER III EPC PACKAGE Supply/सप्लायर Contract No./संकेत:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सब-सप्लायर के अनुमति सहित चर्च की सूची SUB-SYSTEM/प्रणाली ELECTRICAL				Doc.No./संकेत: REVISION NO:-01 DATE/तिथि : 03.02.2022	
S. No. क्र.सं.	Item /पद	QP/Insp. Cat. संख्या/प्रति. श्रेणी	QP No./ संख्या. सं.	QP Sub, Schedule संख्या उप-अनुसूची	Proposed sub-supplier/ प्रस्तावित उप-अपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval status/ उप-अपूर्तिकर्ता के अनुमति की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप-अपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/टिप्पणी		
11	1.1 KV LT Power Cables (Type- XLPE Insulated, PVC sheathed (ind FRLS)	CAT I									
					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				
					Genscabs Industries	Bhivadi	A				
					Gupta Power Cables	Khurda	A				
					Havells India Ltd.	Alwar	A				
					KEC International	Silvassa , Mysore	A				
					KFI Industries	Bhivadi	A				
					Paramount Cable	Khushkhara	A				
					Polycab Wires Pvt. Ltd	Daman	A				
					Ravin Cables	Pune	A				
					Special Cables	Rudrapur	A				
					Suyog Cables	Vadodara	A				
					Thermocables	Hyderabad	A				
					Tirupati Plastomatics	Jaipur	A				
					Torrent Cable Ltd	Nadiad	A				
					Universal Cable Ltd.	Satna	A				
12	LT Control Cable 1.1 KV, Type - PVC (ind FRLS)	CAT II							For cable total quantity above 10 km per size/type- Cat-III		
					Advance Cable	Bengaluru	A				
					Apar Industries Ltd	Umbergaon	A				
					Cords Cables	Bhivadi	A				
					CMI	Faridabad	A				
					CMI	Baddi	A				
					Delton Cable Ltd	Faridabad	A				
					Elkay Telelink	Faridabad	A				
					Genscabs Industries	Bhivadi	A				
					Goyoline Fibres (I) Ltd	Daman	A				
					Gupta Power Cables	Khurda	A				
					Havells India Ltd.	Alwar	A				
					KEC International	Silvassa , Mysore	A				
					KFI Industries	Bhivadi	A				
					Paramount Cable	Khushkhara	A				
					Polycab Wires Pvt. Ltd	Daman	A				
					Ravin Cables	Pune	A				
					Special Cables	Rudrapur	A				
					Suyog Cables	Vadodara	A				
					Thermocables	Hyderabad	A				
					Tirupati Plastomatics	Jaipur	A				

				Project/प्रियोजन : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supply/आपूर्ति Contract No./अनुबंध सं.				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सह-सप्लायर के अनुमोदन सहित चर्चा की पूर्ति SUB-SYSTEM प्रणालीगत ELECTRICAL				Doc No./दस्तावेज सं. REVISION NO.: 01 DATE/दिनांक : 03/02/2022
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Project/प्रियोजन : Talcher - III Package/भाग : TALCHER III EPC PACKAGE Supply/आपूर्ति Contract No./संख्या:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सम - ड्राइंग के अनुमोदन सहित भर्ती की सूची SUB-SYSTEM/प्रणाली: ELECTRICAL				Doc No./दस्तावेज सं. REVISION NO. : 01 DATE/दिनांक : 03.02.2022	
S. No. क्र.सं.	Item/पद	Q/Insp. Cat. खरीद/निर्माण श्रेणी	Q/ Sub. Schedule/सूची अनुसूची	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ category उप-आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub- supplier Details sub sch/ पर	Remarks/टिप्पणी	
16	BATTERY CHARGER (48V/110V/220V)	CAT I		Anaraja	Tirupati	A			
				HBL Power System	Hyderabad	A			
				Chhabhi electrical	Jalgaon	A			
				Chloride Power	Kolkata	A			
				Statcon	Hapur	A		Up to 220 V, 850 A	
				Dubas	Bangalore	A		Up to 220 V, 800 A	
17	Dry Type Transformer	CAT I		ABB	Savli	A		Up to 8 MVA, 24 KV Class	
				Raychem	Pune	A		Up to 3.5 MVA, 33 KV Class	
				Toshiba	Hyderabad	A		Up to 2.0 MVA, 33 KV Class	
				BHEL	Jhansi	A		Up to 6.3 MVA, 33 KV Class	
				Kirloskar Electric Company Limited	Pune	A		Up to 4.0 MVA, 33 KV Class	
				Voltamp	Savli	A		Up to 3.25 MVA, 33 KV Class	
				Sudhar Power Ltd	Silvassa	A		Up to 1 MVA, 11 KV Class	
				Hammond Power Solutions	Hyderabad	A		Up to 95 KVA, 33KV Class	
18	OIP/RIP BUSHING	CAT I		BHEL	Bhopal	A		Up to 400 KV class	
		I		Crompton Greaves Ltd	Nasik	A		Up to 400 KV class	
				Crompton Greaves Ltd	Aurangabad	A		Up to 245 KV Class (excluding GT)	
				ABB Ltd.	Vadodara	A			
18.1	OIP/CONDENSER BUSHING	II		ABB Switzerland Ltd. MICAFIL Bushings	Switzerland	A		Up to 400 KV class	
				TELK	Angamaly	A		Up to 400 KV class	
				GE T&D India Limited	Hosur	A		Up to 400 KV class	
				Alstom-Passion Villa	Italy	A		Up to 400 KV class	
				ABB Power Tech.Products	Sweden	A		Up to 400 KV class	
				Trench	France	A		Up to 400 KV class	
18.2	RIP Bushing	CAT I		ABB AB Components	Sweden	A		Up to 420 KV Class	
				ABB Micafil	Switzerland, and	A		Up to 120 KV Class	
				Izolytor	Rusia	A		Up to 120 KV Class	
				HSP	Germany	A		Up to 420 KV Class	
				Yash High Voltage	Vadodara	A		Up to 145 KV Class	

राजदीपजी NTPC		Project/प्रियोजना : Talcher - III			LIST OF ITEMS REQUIRING QUALITY PLAN			Doc No./दस्तावेज सं.	
		Package/भाग : TALCHER III EPC PACKAGE			AND SUB-SUPPLIER APPROVAL			REVISION NO. : 01	
		Supply/आपूर्ति			सब-सप्लायर के अनुमोदन सहित भर्ती की सूची			DATE/तिर : 03.02.2022	
		Contract No./अवकाश सं.			SUB-SYSTEM/प्रणाली ELECTRICAL				
S. No. क्र.सं.	Item/वस्तु	QI/Insp. Cat. वर्ग/प्रति. श्रेणी	QI No./ वर्ग सं.	QI Sub. Schedule वर्ग अनुसूची	Proposed sub-supplier/ प्रस्तावित सब-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ वर्ग अनुमोदन की स्थिति/श्रेणी	Sub-supplier Details sub sch/ वर्ग	Remarks/टिप्पणी
19	INSULATING OIL	CAT I			Apar Industries	Rohale/Silvassa	A		
					Power Oil Petroleum Products	Silvassa	A		
					NYNAS NAPTHENICS AB	SWEDEN / USA	A		
					Kanden Engg. Corp Ltd	Japan	A		
					Nynas Ltd	Hongkong	A		
					Raj Petro Specialities	Chennai/Silvassa	A		
					Savita Oil Technologies	Mumbai/ Silvassa	A		
20	ON LINE DGA ANALYZER	CAT III			GE Kelmen Ltd	UK	A		
					GE GRID SOLUTIONS LTD	LISBURN, UK	A		
					Serveron	USA	A		
					CIC	Vadodara	A		Approval Conditions apply
					Morgan Sehafter	Canada	A		
21	GIS	CAT I			GE T&D	CHENNAI	A		
					ABB	BARODA	A		
22	CAPACITIVE VOLTAGE TRANSFORMER (CVT)	CAT I							
					ABB	VADODARA	A		UP TO 400KV
					GE T&D	HOSUR	A		UP TO 765 KV
					BHEL	IHANSI	A		UP TO 400KV
					MEHRU ELECTRICALS	BHIWADI	A		UP TO 132 KV
					CCL	NASHIK	A		UP TO 400KV
23	CURRENT TRANSFORMER	CAT I							
					Mehru Electrical	Bhiwadi	A		UP TO 132 KV
					GE T&D	Hosur	A		UP TO 765 KV
					ABB	Vadodara	A		UP TO 400KV
					CGL	Nasik	A		UP TO 400KV
					BHEL	Bhopal	A		UP TO 400KV
					BHEL	Ihansi	A		UP TO 220 KV
					Vishal Transformer	Meerut	A		UP TO 132 KV
					Heptacore	Meerut	A		UP TO 33KV

 Project/प्रियोजना : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supply/सप्लाय : Contract No./अवकाश : Doc No./दस्तावेज : REVISION NO./संशोधन : 01 DATE/दिनांक : 03.02.2022									
LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सब-सप्लायर के अनुमति सहित मदों की सूची SUB-SYSTEM/प्रणाली ELECTRICAL									
S. N. क्र.सं.	Item/मद	QI/ Insp. Cat. स्तर/प्रति.	QI No./ स्तर, सं.	QI Sub. Schedule/सूची	Proposed sub-supplier/ प्रस्तावित सब-सप्लायर	Place/स्थान	Sub-supplier approval category/ सब-सप्लायर के अनुमति की स्थिति/श्रेणी	Sub-supplier Details sub sch/ सब-सप्लायर के विवरण प्रस्तुतकरण की सूची	Remarks/टिप्पणी
24	CIRCUIT BREAKER	CAT I			GE T&D	KANCHIPURAM	A		UPTO 765 KV
					ABB	VADODARA	A		UPTO 400 KV
					SIEMENS	AURANGABAD	A		UPTO 400 KV
					BHEL	Hyderabad	A		UPTO 400 KV
					CGL	NASHIK	A		UPTO 400 KV
25	ISOLATOR	CAT I			GR POWER	HYDERABAD	A		UPTO 400KV
					HIVELM	CHENNAI	A		UPTO 400KV
					S&S POWER	PONDICHERRY	A		UPTO 400KV
					SIEMENS	HYDERABAD	A		UPTO 765 KV
					ELEKTROLITES	JAPUR	A		UPTO 33 KV
					SWITCHGEAR & STRUCTURALS	HYDERABAD	A		UPTO 765 KV
26	SURGE ARRESTOR	CAT I			CGL	NASHIK	A		UPTO 400KV
					ELEKTROLITES	JAPUR	A		UPTO 33 KV
					LAMCO	HYDERABAD	A		UPTO 400KV
					OBLUM	HYDERABAD	A		UPTO 765 KV
27	CLAMPS & CONNECTORS & WELDING SLEEVES	CAT I			ELCTROMECHTRANSTECH	KOLKATA	A		
					EXALT	MUMBAI	A		
					KLEMMEN ENGG	CHENNAI	A		
					MEGHA ENGG	CHENNAI	A		
					MILIND	MUMBAI	A		
					EMI	MUMBAI	A		
					NOOTAN ENGG	MUMBAI	A		
					TAG CORPORATION	CHENNAI	A		
					ITPL	MUMBAI	A		
					RASHTRA UDYOG	KOLKATA	A		
					Premier Power Products	Chennai	A		
					PEE VEE ENGG	BANGALORE	A		

		Project/प्रोजेक्ट : Talcher - III				Doc. No./संशोधन सं.			
		Package/पैकेज : TALCHER III EPC PACKAGE				REVISION NO. - 01			
		Supplier/सप्लायर				DATE/दिनांक : 03.02.2022			
		Contract No./संख्या:							
		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL				अनुमोदित होने वाले सब-सप्लायर के अनुमोदन पत्रों की सूची			
		SUB-SYSTEM/सबसिस्टम: ELECTRICAL							
S. N. क्र.सं.	Item /पद	QP/ Insp. Cat. स्तर/प्रति.	QP No./ स्तर, सं.	QP Sub. Schedule स्तर	Proposed sub-supplier/ प्रस्तावित उप-अपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ उप-अपूर्तिकर्ता के अनुमोदन की स्थिति/स्थान	Sub-supplier Details sub sch/ उप-अपूर्तिकर्ता के विवरण प्रस्तुतिकाग की सूची	Remarks/टिप्पणी
271	ACSR CONDUCTOR	CAT I			AFAR INDUSTRIES	SILVASSA	A		
					CARCON	KOLKATA	A		
					DIAMOND	VADODARA	A		
					GALAXY	SANGLI	A		
					GUPTA POWER INHRA	BHUBANESWAR	A		
					HIRA CABLES	HIRAKUD	A		
					JSK	SILVASSA	A		
					LUMINO	KOLKATA	A		
					SARAVATHY	BANGALORE	A		
					HIREN ALUMINIUM	SILVASSA	A		
					SMITA	GHAZIABAD	A		
272	ALUMINIUM TUBE	CAT I			ALOM EXTRUSIONS UNIT-II	BALASORE	A		
					BANCO	VADODARA	A		
					CENTURY EXTRUSION	KOLKATA	A		
					HINDALCO	RENUKOOT	A		
					HINDALCO	ALUPURAM	A		
					HINDAL ALUMINIUM	BANGALORE	A		
					SUDAL	NASIK	A		
28	SUB STATION AUTOMATION SYSTEM (BCU, GRP, ENERGY METER, NUMERICAL RELAYS, SWITCHYARD PROTECTION)	CAT I							
					GE T&D	CHENNAI	A		
					ABB	PEENYA	A		
					SCHNEIDER	NODA	A		
					SIEMENS	KALWA/GOA	A		
					BHEL	BHOPAL	A		
29	AB Tariff energy meter	CAT I							
					SIEMS	Udaipur/Solan	A		
					Elster	Mumbai	A		
					L&T	Mysore	A		For Model ER300P With CMS software.

				Project/परियोजना : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supplier/सप्लायर Contract No./संक्रमांक:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सब-सप्लायर के अनुमति मांगी गई की सूची SUB-SYSTEM/संयोजनानुसार ELECTRICAL				Doc No./संक्रमांक: REVISION NO.: 01 DATE/दिनांक : 03.02.2022
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प्रजापति NTPC				Project/विभाग: Talcher-III Package/पैकेज: TALCHER III EPC PACKAGE Supplied/सप्लायिंग Contract No./संकेतः				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सम-पैकेज के अंगोदय गौतम मर्च की सूची SUB-SYSTEM/सम-गुणकः ELECTRICAL				Doc.No./संकेतः REVISION NO.: 01 DATE/दिनांक: 03.02.2022	
S. No. क्र.सं.	Item / पद	QP/Insp. Cat. व्युत्प/निर्माण श्रेणी	QP No. / व्युत्प. सं.	QP Sub. Schedule व्युत्प. प्र.सं.सूचिका	Proposed sub-supplier/ प्रस्तावित उप-सप्लायर	Place/स्थान	Sub-supplier approval category उप-सप्लायर के अंगोदय की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप-संकेत	Remarks/टिप्पणी				
33	132 KV cable termination & straight through jointing kits	CAT I			Ijin	South Korea	A						
					ABB Kahelden	Sweden	A						
					Phister AG	Switzer and	A						
					Tyco Electronics Raychem GmbH	Germany	A						
34	Air Insulated Non Segregated phase type LT busduct	CAT I			C&S Electric	G.Noida	A						
					C&S Electric	HARIDWAR	A						
					Unilec	Gurgaon	A		Upto 3200 A				
					Startdrive	Chennai	A						
					Spaceage Swgr Ltd	Bawal	A						
					REEP	Chennai	A						
					Enpro	Chennai	A						
					Nitya Electrocontrols	Noida	A						
34.1	Sandwiched type LT Busduct	CAT I			Henkwoon	Malaysia	A						
					C&S	HARIDWAR	A						
35	SPBD	CAT I			BHEL	Rudrapur	A						
					C&S	Greater Noida	A						
					C&S	Haridwar	A						
					GODREJ & BOYCE MANUFACTURING COMPANY LTD	Bangalore	A						
					Powergear	Hindupur	A						
					Powergear	Chennai / Bangalore	A						
					KGS Engg.	Chennai	A						
36	LT MOTOR	CAT I			ABB	FARIDABAD	A		UPTO 55KW				
					ABB	BANGALORE	A						
					IYOTI LTD.	VADODARA	A		UPTO 15 KW (NON FLAME PROOF)				
					TIPM	JAPAN	A						
					HYOSUNG	SOUTH KOREA	A						
					WEG	BRAZIL	A						
					HYUNDAI	SOUTH KOREA	A						
					LHP	SOLAPUR	A						
					CGL	AHMEDNAGAR	A		RQP, FOR FLAME PROOF MOTOR				
					TMEIC	JAPAN (NAGASAKHI)	A						
					NGEF	BANGALORE	A		UPTO 15 KW				
					BHARAT BIJLEE	MUMBAI	A		RQP, FOR FLAME PROOF ALSO				
					KEC	BANGALORE / HUBLI*	A		*UPTO 90KW, RQP, FOR FLAME PROOF ALSO				

			Project/अंशक : Talcher - III Package/अंशक : TALCHER III EPC PACKAGE Supply/अंशक Contract No./अंशक				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सब-सप्लायर के अनुमति पत्रों की सूची SUB-SYSTEM/अंशकः ELECTRICAL				Doc.No./अंशकः REVISION NO.-01 DATE/दिनांक : 03.02.2022
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				Project/परियोजना : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supplier/सप्लायर Contract No./अवकाशः			LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL /अनुरोधित गुण तथा सब-सप्लायर के अनुमोदन सहित चर्चा की सूची SUB-SYSTEM/प्रणाली ELECTRICAL			Doc No./दस्तावेजः REVISION NO. : 01 DATE/दिनांक : 03.10.2022
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एनटीपीसी NTPC		Project/संशोधन : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supplier/ आपूर्तिकर्ता: Contract No./ संपर्कसंख्या:					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL प्रमाणित/पूरा तथा सब-सप्लायर के अनुमति पत्रों की सूची SUB-SYSTEM/संयोजनानुसार: ELECTRICAL					Doc No./ संदर्भसंख्या: REVISION NO.: 01 DATE/दिनांक : 03.02.2022	
		S. No. क्र.सं.	Item /पद	QP/Insp. Cat. वर्ग/प्रति. श्रेणी	QP No. / वर्ग. सं.	QP Sub, Schedule वर्ग उप-आपूर्तिकर्ता	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval status/ वर्ग उप-आपूर्तिकर्ता के अनुमति पत्रों की स्थिति /श्रेणी	Sub-supplier Details sub-sch/ उप- वर्ग उप-आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/टिप्पणी		
45.1	CORE BAR	CAT II				BHEL-HEEP	HARDWAR	A					
45.2	FLUX TRAP	CAT II				BHEL-HEEP	HARDWAR	A		STAMPINGS FROM BHEL CSU JAGDISHPUR			
45.3	FLAT SPRINGS AND BASKET ASSEMBLY	CAT II											
45.4	RIPPLE SPRING	CAT II				BHEL-HEEP	HARDWAR	A					
						KREMPAL GMBH	GERMANY	A					
45.5	TENSION BOLT FOR STATOR CORE (INSULATED)	CAT II											
						BHEL-HEEP	HARDWAR	A					
45.6	CORE PRESS RING	CAT II				BHEL-HEEP	HARDWAR	A					
46	ETS MATERIAL	CAT II											
		II				THYSSEN KRUPP ELECTRICAL STEEL	NASIK	A					
		II				ARCHLOR MITTAL INTERNATIONAL	LUXAMBOURG	A					
		II				THYSSENKRUPP MATERIAL TRADING	GERMANY	A					
		I				POSCO	RAIGARH	A					
		I				JSW	BELLARY	A					
		II				ALLOVERZE	GERMANY	A					
47	STATOR LAMINATION	CAT II				BHEL-CSU	JAGDISHPUR	A					
48	BUS BAR CONNECTION TUBES	CAT II											
						LUVATA FORI	FINLAND	A					
						BUNT METAL	AUSTRIA	A					
						KME GERMANY GMBH & CO. KG	GERMANY	A					
48.1	CONNECTING BUS BAR	CAT I				BHEL	HARDWAR	A					
49	SOLID COPPER CONDUCTOR (FOR STATOR BAR)	CAT I											
		I				PEARL INSULATIONS	BANGLORE	A					
		I				MAHENDRA INDUSTRIES	BANGLORE	A					
		II				VONROLL	SWITZERLAND	A					
		II				GEBAUER & GRILLER	AUSTRIA	A					

		Project/संस्करण : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता : Contract No./अनुबंध संख्या :					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL प्राविष्टि कृत वस्तु सब-सप्लायर के अनुमति सहित वस्तु की सूची SUB-SYSTEM/प्रणाली: ELECTRICAL					Doc No./दस्तावेज संख्या : REVISION NO. : 01 DATE/दिनांक : 03.02.2022	
		S. N. क्र.सं.	Item / वस्तु	QI/ Insp. Cat. वर्ग/प्रति. श्रेणी	QI No. / वर्ग सं. वर्ग सं.	QI Sub. Schedule वर्ग अनुसूची	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ उप-आपूर्तिकर्ता के विवरण स्थिति/श्रेणी	Sub-supplier Details sub sch/ उप-आपूर्तिकर्ता के विवरण प्रत्युत्तरिका की सूची	Remarks/टिप्पणी		
49.1	HOLLOW SS CONDUCTOR (STATOR BAR)	CAT II				FINE TUBES LTD.	ENGLAND	A					
50	OVER HANG SUPPORT RING	CAT II				ROEHLING ENGINEERING PLASTICS POWER & COMPOSITE TECHNOLOGIES	GERMANY USA	A A					
51	WATER SUPPLY HOSE (INSULATED)	CAT I				DR SCHNABEL GMBH & CU KG LIMBURG CRANE RESISTOFLEX MIL INDUSTRIES LIMITED	GERMANY USA CHENNAI	A A A					
52	BAFFLE RING & BAFLE RING CARRIER MACHINING	CAT I				BHEL-HEEP	HARIDWAR	A					
53	STATOR WINDING BAR	CAT I				BHEL-HEEP	HARIDWAR	A					
54	GENERATOR SHAFT FORGING	CAT II				BUDERUS EDELSTAHL ISW SAARSCHMEDE ICFC PSC Energomashpetstal DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO. LTD. SDF-TURNI	GERMANY JAPAN GERMANY JAPAN Ukraine SOUTH KOREA ITALY	A A A A A A A					
54.1	GENERATOR SHAFT MACHINING	CAT I				BHEL-HEEP	HARIDWAR	A					
55	CURRENT CARRYING BOLTS FOR ROTOR	CAT II				BHEL HEEP	HARIDWAR	A					
56	SILVER BEARING COPPER HOLLOW STRIPS (ROTOR COIL)	CAT II				BUNT METAL BOASHIDA SWISS METAL	AUSTRIA SWITZERLAND	A A					
57	ROTOR COIL FORMING	CAT II				BHEL HEEP	HARIDWAR	A					
58	ROTOR SLOT ANGLE	CAT II				SAHNEY KIRKWOOD PVT. LTD. ABB SWITZERLAND LTD. VON ROLL ISOLA	NASIK SWITZERLAND FRANCE	A A A					

		Project/संकेत: Talcher-III				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL				Doc.No./संकेतः	
		Package/बैक: TALCHER III EPC PACKAGE				SUB-SYSTEM/प्रणाली ELECTRICAL				REVISION NO:-01	
		Supply/सप्लायर								DATE/दिनांक : 03.02.2022	
		Contract No./संकेतः									
S. No. क्र.सं.	Item /वस्तु	QP/Insp. Cat. वर्ग/प्रति. श्रेण.	QP No./ वर्ग. सं.	QP Sub, Schedule वर्ग उप-सूची	Proposed sub-supplier/ प्रस्तावित उप-सप्लायर	Place/स्थान	Sub-suppliers approval status/ वर्ग उपसूचिका के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप-सूचिका	Remarks/टिप्पणी		
58.1	WEDGES FOR ROTOR (DAMPER +SLOT)	CAT II									
					KM EUROPA	GERMANY	A				
					BOASHIDA SWISS METAL	SWITZERLAND	A				
					LUVATA (OUTO KUMPU PORI)	FINLAND	A				
					BUNT METAL	AUSTRIA	A				
59	RETAINING RING	CAT II									
					SAARSCHMIEDE	GERMANY	A				
					ENERGIE TECHNIK	GERMANY	A				
					ISW	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) - HW10786 -X20Cr13	CAT I									
					Refer Steam Turbine List for same grade material for blade bars		A				
60.2	COMPRESSOR HUB M/C & ASSEMBLY	CAT I									
					BHEL-HEEP	HARIDWAR	A				
61	BEARING SHELL FORGING (GENERATOR)	CAT II									
					BHEL-CFP	HARIDWAR	A				
62	BEARING COMPLETE (EXCITER)	CAT I									
					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									
65.1	TUBES FOR COOLERS (BRASS /COPPER TUBES)	CAT II									
					MULTIMETALS	KOTA	A				
					Mehra Tubes Pvt Ltd	VAPI	A				
					METAL ALLOYS	JAMNAGAR	A				
65.2	FINNING OF COOLER TUBES	CAT I									

		Project/संस्करण : Talcher - III				LIST OF ITEMS REQUIRING QUALITY PLAN				Doc No./संस्करण सं.	
		Package/भाग : TALCHER III EPC PACKAGE				AND SUB-SUPPLIER APPROVAL				REVISION NO : 01	
		Supply/सप्लायर				सब-सप्लायर के अनुमोदन सहित चर्चा की सूची				DATE/दिनांक : 03.02.2022	
		Contract No./अनुबंध सं.				SUB-SYSTEM/प्रणाली/विद्युत					
S. N. क्र.सं.	Item/वस्तु	QI/ Insp. Cat. वर्ग/वर्ग	QI No./ वर्ग सं.	QI Sub. Schedule/वर्ग	Proposed sub-supplier/ प्रस्तावित उप-सप्लायर	Place/स्थान	Sub-supplier approval status/ वर्ग	Sub- supplier Details sub sch/ वर्ग	Remarks/टिप्पणी		
65.3	HYDROGEN COOLER	CAT I			LAXMI ENGINEERING INDUSTRIES	BHOPAL	A				
					LORD VISHWAKARMA HEAT EXCHANGE	HARDWAR	A				
					FITWELL CORPORATION	BHOPAL	A				
					BHEL-HEEP	HARDWAR	A				
66	PW COOLER & SEAL OIL COOLER	CAT I			BHEL-HEEP	HARDWAR	A				
					ALFA LAVAL (INDIA) LIMITED	PUNE	A				
					TRANSTER INDIA PVT. LIMITED	PUNE	A				
67	SEAL OIL PUMP & PRIMARY WATER PUMP	CAT I									
					TUSHACO PUMPS	DAMAN	A				
					RSB INDIA	PUNE	A				
					SULZER INDIA	NAVI MUMBAI	A				
68	PW SYSTEM/SKID	CAT I			BHEL-HEEP	HARDWAR	A				
69	SEAL OIL SYSTEM/SKID	CAT I			BHEL-HEEP	HARDWAR	A				

 Project/संस्करण : Talcher - III Package/किराता : TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता Contract No./अनुबंध सं.										LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सह-सुप्लायर के स्वीकृति सह SUB-SYSTEM/प्रणाली: ELECTRICAL										Doc No./दस्तावेज सं. REVISION NO : 01 DATE/तिथि : 03.02.2022	
S. N. क्र.सं.	Item / वस्तु	Q/I Insp. Cat. स्वीकृति/प्रति. श्रेणी	Q/I No./ स्वीकृति सं.	Q/I Sub. Schedule/अनुसूची	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval status/ उप-आपूर्तिकर्ता के स्वीकृति प्रति. श्रेणी	Sub-supplier Details उप-आपूर्तिकर्ता के विवरण	Remarks/टिप्पणी												
70	TERMINAL BUSHING	CAT II			TRENCH FRANCE SAS HSP HOCHSPANUNGSGERAETE GMBH	FRANCE GERMANY	A A														
71	HYDROGEN DRIER (REFRIGERANT TYPE)	CAT I			INDIAL ELECTRONICS MELCON ENCS PVT SPAN ZENTRONICS SYSTEMS	ROORKEE NEW DELHI ROORKEE HYDERABAD	A A A A														
72	RC BLOCK	CAT I																			
NOTE	1. CHECKS FOR STATOR CORE ASSLY, STATOR WINDING ASSEMBLY, ROTOR WINDING ASSLY, GEN., GENERATOR ROTOR-FINAL, BEARING ASSEMBLY/SHAFT SEAL ASSEMBLY, EXCITER ASSLY (MAIN & PILOT), 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.																				
B- MAJOR COMPONENTS FOR L&T MAKE GENERATOR (AS PER OEM SPECIFIC DESIGN):																					
73	STATOR FRAME WITH MAN HOLE COVER FABRICATION & MACHINING (Generator Stator Frame fabrication & Machining)	CAT I			MITSUBISHI ELECTRIC LMTG	JAPAN HAZIRA	A A														
74	CORE BOLT ASSEMBLY (Core Bolt assembly in stator frame)	CAT I II I			MITSUBISHI ELECTRIC LMTG	JAPAN HAZIRA	A A A														
75	BORE RING FOR STATOR FABRICATION (Bore ring fabrication & M/s)	CAT I II I I			MITSUBISHI ELECTRIC LMTG MANJUNATH	JAPAN HAZIRA BANGALORE	A A A A														
76	END PRESSURE PLATE (CORE PRESSURE RING AND FINGER (Finger Plate)	CAT I II I			MITSUBISHI ELECTRIC RV ENGG	JAPAN BALLABGARH	A A A														
77	STATOR CORE PUNCHING & SHIELD CORE PUNCHING	CAT I II I			MITSUBISHI ELECTRIC PITTI LAMINATION	JAPAN HYDERABAD	A A A														

		Project/वेबसाइट : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता :					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्थापित करने तथा प्राप्त -पैडर के अनुमति नदति नदों की पूर्ति SUB-SYSTEM (अनुणालन) ELECTRICAL					Doc.No./दस्तावेज : REVISION NO: 01 DATE/तिथि : 03.02.2022	
		Contract No./अनुबंध संख्या :					Proposed sub-supplier/ प्रस्तावित अर आपूर्तिकर्ता	Q/ Sub, Schedule चर्चा अनुसूचि	Q/ Insp. Cat. चर्चा/तिथि, अनुसूचि	Q/ No./ चर्चा सं. अनुसूचि	Sub-supplier approval status/ category अर आपूर्तिकर्ता अनुसूचि के विवरण के अनुमति की प्रसूचिकरण स्थिति /अनुसूचि	Sub- supplier Details sub sch/ अर आपूर्तिकर्ता के विवरण प्रसूचिकरण की पूर्ति	Remarks/टिप्पणी
		Item / वस्तु											
		S.N. क्र.सं.											
78		TENSION BOLT FOR STATOR CORE(INSULATED)(CORE BOLT)	CAT II				MITSUBISHI ELECTRIC				JAPAN	A	
79		LEAD BOX FABRICATION & MACHINING	CAT I										
			II				MITSUBISHI ELECTRIC				JAPAN	A	
			I				LMTG				HAZIRA	A	
			I				JSPL				RAIPUR	A	
80		OVER HANG SUPPORT RING(RESIN CONE)	CAT II										
			II				HITACHI CHEM				JAPAN	A	
			II				PCT				USA	A	
			II				ROCHLING				GERMANY/ France	A	
81		CORE TENSION BOLT (UNINSULATED) FOR STATOR (Core bolt)	CAT I										
			II								JAPAN	A	
			I				MITSUBISHI STAR WIRE				BALLABGARH	A	
82		OVERHANG SLIDING SYSTEM (Part of stator winding Assembly)	CAT I										
			II				MITSUBISHI ELECTRIC				JAPAN	A	
			I				LMTG				HAZIRA	A	
83		BUS RING FABRICATION (Phase Ring)	CAT I										
			II				MITSUBISHI ELECTRIC				JAPAN	A	
			I				LMTG				HAZIRA	A	

NTPC						Project/संशोधन: Talcher - III Package/आवरण: TALCHER III EPC PACKAGE Supplied/अपूर्णांक		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL (अनुमति प्राप्त तथा सब-सुप्लायर की अनुमति प्राप्त होने वाली सूची) SUB-SYSTEM/प्रणाली: ELECTRICAL		Doc.No./संशोधन: REVISION NO: 01 DATE/दिनांक: 03.02.2022			
Contract No./अपूर्णांक:						QP/Insp. Cat. अपूर्णांक/श्रेणी	QP No./ अपूर्णांक सं.	QP Sub. Schedule अपूर्णांक	Proposed sub-supplier/ प्रस्तावित उप-अपूर्णांक	Place/स्थान	Sub-supplier approval status/ category के अनुमति स्थिति /श्रेणी	Sub- supplier Details sub sch/ उप- अपूर्णांक के विवरण प्रस्तुतीकरण की सूची	Remarks/टिप्पणी
S. No. क्र.सं.	Item / वस्तु	QP/Insp. Cat. अपूर्णांक/श्रेणी	QP No./ अपूर्णांक सं.	QP Sub. Schedule अपूर्णांक	Proposed sub-supplier/ प्रस्तावित उप-अपूर्णांक	Place/स्थान	Sub-supplier approval status/ category के अनुमति स्थिति /श्रेणी	Sub- supplier Details sub sch/ उप- अपूर्णांक के विवरण प्रस्तुतीकरण की सूची	Remarks/टिप्पणी				
84	RIPPLE SPRING	CAT III			MITSUBISHI ELECTRIC	JAPAN	A						
		III			AUGUST KREMPPEL	GERMANY	A						
85	SOLID COPPER CONDUCTOR (FOR STATOR BAR)	CAT I											
		II			MITSUBISHI ELECTRIC	JAPAN	A						
		II			UNIMAC	JAPAN	A						
		I			MAHENDRAIND	BANGALORE	A						
		II			GEABUR AND GRILER	AUSTRIA	A						
		II			HITACHI MAGNET WIRE	JAPAN	A						
		I			PEARL INSULATION	BANGALORE	A						
		I			COSMOS	BANGALORE	A						
86	HOLLOW COPPER CONDUCTOR (STATOR BAR)	CAT I											
		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 HAPLEY(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			SUMIKEI COPPER	JAPAN	A						
		II			MITSUBISHI ELECTRIC	JAPAN	A						
		II			HITACHI CABLE	JAPAN	A						
		II			ORIENTAL COPPER	THAILAND	A						

एनटीपीसी NTPC		Project/संकेत: Talcher - III Package/पैकेज: TALCHER III EPC PACKAGE Supplier/सप्लायर: Contract No./संकेत:			LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सब-सप्लायर के अनुमति पत्रों की सूची SUB-SYSTEM/सिस्टम/इलेक्ट्रिकल							Doc.No./संकेतः REVISION NO: 01 DATE/तिथि : 03.02.2022	
S. No. क्र.सं.	Item /पद	Qp/Insp. Cat. वर्ग/प्रति. श्रेणी	Qp No./ वर्ग. सं.	Qp Sub- Schedule वर्ग प्र.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप-अपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval category उप-अपूर्तिकर्ता के अनुमति पत्रों की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप-अपूर्तिकर्ता के विवरण प्रस्तुतिकाग की सूची	Remarks/टिप्पणी				
90	INSULATING HOSES FOR STATOR (WATER SUPPLY HOSES)	CAT I											
		II			SAKURA RUBBER	JAPAN	A						
					MITSUBISHI ELECTRIC	JAPAN	A						
		II			CRANE RESISTOFLEX	USA	A						
					DR. 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 clamper; nodular cast iron casting for Shroud support.				
92	STATOR WINDING ASSLY	CAT I											
		I			MITSUBISHI ELECTRIC	JAPAN	A						
		I			LMTG	HAZIRA	A						
93	GENERATOR SHAFT FORGING	CAT II											
					SAARSCHMIEDE	GERMANY	A						
					Buderus Edelstahl	GERMANY	A						
					JSW	JAPAN	A						
					SDF	ITALY	A						
					CRUIST FORCE	FRANCE	A						
					OMZ	RUSSIA	A						
					FORGE MASTER	UK	A						
					ICFC	JAPAN	A						
94	GENERATOR ROTOR MACHINING	CAT I											
		II			MITSUBISHI ELECTRIC	JAPAN	A						
		II			NUGO ROMANO	ITALY	A						
		I			LMTG	HAZIRA	A						
95	ETS MATERIAL (Core material)	CAT I											
		I			THYSSON KRUPP	NASIK	A						
		II			NIPPON	JAPAN	A						
		II			IFE	JAPAN	A						
		I			POSCO	RAIGARH	A						
		I			JSW	BELLARY	A						
		II			MITSUBISHI	JAPAN	A						
96	RETAINING RING FORGING(MAT- CrMn 1818)	CAT II											
					SAARSCHMIEDE	GERMANY	A						
					JSW	JAPAN	A						
					KOBE STEEL	JAPAN	A						
					FORTEH	FRANCE	A						
97	RETAINING RING MACHINING	CAT I											

		Project/विभाग : Talcher - III Package/किताब : TALCHER III EPC PACKAGE Supply/आपूर्ति : Contract No./अवकाश :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL प्रामाणिक गुण तथा सह-पैदा के अनुमोदन सक्षम चर्चा की पूर्ण SUB-SYSTEM प्रणालीगत ELECTRICAL				Doc No./दस्तावेज सं. REVISION NO.: 01 DATE/दिनांक : 03/02/2022	
		S. N. क्र.सं.	Item / वस्तु	Q/ Insp. Cat. वर्ग/प्रति. अंश.	Q/ No./ वर्णन. सं.	Q/ Sub. Schedule वर्णन अनुसूची	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ उप-आपूर्तिकर्ता के अनुमोदन की स्थिति/अंश	Sub-supplier Details sub sch/ उप-आपूर्तिकर्ता के विवरण प्रत्युत्पादन की पूर्ण	Remarks/टिप्पणी
				II I			MITSUBISHI ELECTRIC LMTG	JAPAN HAZIRA	A A		
98			SILVER BEARING COPPER HOLLOW STRIPS (ROTOR COIL)	CAT II			ORIENTAL COPPER HITACHI CABLE FURUKAWA ELECTRIC KM EUROPA OTOKUMPUTURI (Luvata) GINDRE	THAILAND JAPAN GERMANY FINLAND FRANCE	A A A A A		
99			FIELD LEAD CORE BAR FOR ROTOR WITH D LEAD (RAW MATERIAL) (Field lead)	CAT II			ORIENTAL COPPER BAOSHIDA SWISS METAL KME Agarwal Industries (Fabrication) Rachma Metals (Raw material) INDIAN METAL & ALLOY HITACHI CABLE	THAILAND GERMANY GERMANY Mandideep GHAZIABAD KOLKATA JAPAN	A A A A A A A		
100			CURRENT CARRYING BOLTS FOR ROTOR (Radial Lead)	CAT II			MITSUBISHI ELECTRIC	JAPAN	A		
101			ROTOR COIL FORMING	CAT I II			MITSUBISHI ELECTRIC	JAPAN	A		
102			STATOR Coil Manufacturing	I CAT I			LMTG MITSUBISHI ELECTRIC LMTG	HAZIRA JAPAN HAZIRA	A A A		
103			ROTOR SLOT WEDGES & DAMPER WEDGES FABRICATION & MACHINING (Rotor wedge & Damper bar)	CAT II			MITSUBISHI ELECTRIC MURAKAMI FIAY OTOKUMPUTURI (LUVATA) METALLURGICA MINOTTI Damper Wedges - Gindre India Components Pvt. Ltd	JAPAN on press ITALY FINLAND ITALY Gurgaon	A A A A A A		

		Project/परियोजना: Talcher - III				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL आवक/आवक योजना तथा				Doc No./संदर्भ संख्या:	
		Package/किस: TALCHER III EPC PACKAGE				Supplier/आपूर्तिकर्ता				REVISION NO: 01	
		Contract No./संदर्भ संख्या:				आवक/आवक संख्या				DATE/दिनांक: 03.02.2022	
						SUB-SYSTEM/प्रणाली: ELECTRICAL					
S. N. क्र.सं.	Item / वस्तु	QP/ Insp. Cat. आवक/ निरीक्षण श्रेणी.	QP No./ आवक सं.	QP Sub. Schedule आवक उप-आपूर्तिकर्ता	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/टिप्पणी		
104	ROTOR WINDING ASSLY (GEN) INCL ROTOR WEDGES (Rotor winding)	CAT I			MITSUBISHI ELECTRIC LMTG	JAPAN	A				
105	GENERATOR ROTOR-FINAL assembly & Balancing Process (Rotor final assembly & HSB)	CAT I				HAZIRA	A				
					MITSUBISHI ELECTRIC LMTG	JAPAN	A				
						HAZIRA	A				
106	COMPRESSOR BLADE ASLY ON ROTOR (Part of generator final assembly)	CAT I									
					MITSUBISHI ELECTRIC LMTG	JAPAN	A				
						HAZIRA	A				
107	D LEAD (FL CORE BAR) & CONTACT BOLT FOR SLIP RING (Axial lead)	CAT II									
					MITSUBISHI ELECTRIC	JAPAN	A				

Talcher III EPC PACKAGE		Project/अंशक : Talcher - III		Doc.No/अंशक: REVISION NO: 01					
Supply/आपूर्ति		Package/अंशक : TALCHER III EPC PACKAGE		DATE/तिथि : 03/02/2022					
Contract No/अंशक:		Contract No/अंशक:							
				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL अवधिकृत गुण तथा सब-सप्लायर के अनुमति प्राप्त करने की सूची SUB-SYSTEM/प्रणाली: ELECTRICAL					
S.N. क्र.सं.	Item /पद	QP/Insp. Cat. वर्ग/विश. श्रेणी	QP No./ वर्ग. सं.	QP Sub. Schedule वर्ग प्र.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ category उप-आपूर्तिकर्ता के अनुमति की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप-आपूर्तिकर्ता के विवरण प्रस्तुतिकरण की सूची	Remarks/टिप्पणी
108	TUBES FOR CONNECTING BUS BAR (Phase ring tubes)	CAT II			ORIENTAL COPPER ALCOBEX SH Copper IPCL HITACHI CABLE	THAILAND JODHPUR Japan BHAVNAGAR JAPAN	A A A A A		
109	END SHIELD FABRICATION & MACHINING (Generator Bearing Bracket)	CAT I			MITSUBISHI ELECTRIC SHAPE MANJUNATH	JAPAN HARIDWAR BANGLORE	A A A		For End Shield Fabrication Only
110	BEARING SHELL (GEN& SLIP RING)- FORGING (part of generator Bearing)	CAT II			MITSUBISHI ELECTRIC OMEGA THERMIT DUMDUM EURO BEARING	JAPAN BHOPAL KOLKATA ITALY	A A A A		
111	CENTERING RING FORGING (END PLATE)	CAT I			GOODLUCK	GHAZIABAD	A		
		I			NISHIMAKI IRON WORKS BAY FORGE	JAPAN CHENNAI	A A		
112	BEARING SHELL (GEN & SLIP RING) M/C (Generator bearing)	CAT III			DSE DYM MITSUBISHI ELECTRIC OMEGA THERMIT DUM DUM EURO BEARING WAIKESHA BEARING	KOREA KOREA JAPAN BHOPAL KOLKATA ITALY USA	A A A A A A A		
113	INTERMEDIATE RING FORGING (Space ring forging)	CAT I			Good luck (for forging) LMTG (for m/c)	FARIDABAD Hazira	A A		
114	PRIMARY WATER PUMP	CAT I			MATHER & PLATT	PUNE	A		

		Project/प्रियोजना : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supply/सप्लाय Contract No./अग्रहण सं.				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL प्रामाणिकता प्रमाण एक - टेंडर के अनुमोदन सहित भर्ती की सूची SUB-SYSTEM प्रणालीगत ELECTRICAL				Doc.No./दस्तावेज सं. REVISION NO. : 01 DATE/दिनांक : 03.02.2022
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		Project/संस्करण : Talsar - III				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL				Doc No./संस्करण सं.	
		Package/पैकेज : TALSAR III EPC PACKAGE				आमोदित/अनुमोदित				REVISION NO.: 01	
		Supplier/आपूर्तिकर्ता				आमोदित/अनुमोदित				DATE/दिनांक : 03/02/2022	
		Contract No./संस्करण सं.				SUB-SYSTEM/संस्करण सं.					
S. No. क्र.सं.	Item/वस्तु	QP/Insp. Cat. अनुमोदित/अनुमोदित	QP No./ अनुमोदित सं.	QP Sub. Schedule अनुमोदित	Proposed sub-supplier/ अनुमोदित उप-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval category अनुमोदित उप-आपूर्तिकर्ता के अनुमोदित की स्थिति/श्रेणी	Sub-supplier Details sub-sch/ अनुमोदित उप-आपूर्तिकर्ता के विवरण	Remarks/टिप्पणी		
		I			STAR WIRE	BALLABHGARH	A				
		II			MITSUBISHI ELECTRIC	JAPAN	A				
		I			GOODLUCK ENGG	GHAZIABAD	A				
126	SEAL OIL VALVE RACK	CAT II									
					JIMC	KOREA	A				
127	SEAL OIL STORAGE TANK (LOOP SEAL TANK)	CAT I									
					JIMC	KOREA	A				
					Gujarat infra	Vadodara	A				
					Shree sarjan	Vadodara	A				
128	HYDROGEN COOLER (Gas cooler)	CAT I			KITASHIBA ELECTRIC	JAPAN	A				
					ENERGEN	KOREA	A				
					GEA	GERMANY	A				
					LAXMI	BHOPAL	A				
129	CARBON BRUSH	CAT II									
					MERSEN	CHINA	A				
					MORGAN	KOREA	A				
					MERSEN	BANGLORE	A				
					VIDYUT CARBON	HARDWAR	A				
					ASSAM CARBON	KOLKATA	A				

		Project/प्रियोजना : Talcher - III Package/भाग : TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता Contract No./अनुबंध सं.				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL प्रत्येक उप-आपूर्तिकर्ता के अनुमोदन सहित सभी की सूची SUB-SYSTEM/प्रणाली ELECTRICAL				Doc. No./दस्तावेज सं. REVISION NO.: 01 DATE/दिनांक : 03.02.2022
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NTPC		Project/वेबसाइट : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL अवधिकृत पूरा नही होगा - ईंटर के अनुमति सक्षम नहीं की पूर्ण SUB-SYSTEM (अनुमति) ELECTRICAL				Doc No./आवधिकृत: REVISION NO: 01 DATE/दिनांक : 03.02.2022	
		Contract No./अनुमति:									
		S. N. क्र.सं.	Item / वस्तु	QP/Insp. Cat. अनुमति/निरीक्षण श्रेणी	QP No./ अनुमति क्र.	QP Sub. Schedule अनुमति प्रवृत्ति/श्रेणी	Proposed sub-supplier/ अनुमति अनुमति	Place/स्थान	Sub-supplier approval status/ category अनुमति के अनुमति की विधि/श्रेणी	Sub- supplier Details sub sch/ अनुमति के विवरण प्रवृत्ति/श्रेणी	Remarks/टिप्पणी
139	Bearing Bracket Hub casting	CAT I			VAISHNOV STEEL LMTG HCU	MUZAFFAR NAGAR Hazira	A				
140	Shroud support	CAT I					A				
141	Blower hub Forging	CAT I			R V Casting	Faridabad	A	(M/C by LMTG)			
142	Bore ring Forging	CAT I			Goodluck	Ghaziabad	A	(M/C by LMTG)			
143	Rotor & stator blade	CAT I			CHW	Greater noida	A	(M/C by LMTG)			
					LMTG (for machining)	Hazira	A				
					Star wire (For Rotating Blade raw material)	BALLABHGARH	A				
					As per NTPC approved list (For ST blade raw material also)		A				
144	Center wedge & end wedge machining	CAT I			Moldpro	Vadodara	A				
NOTE	1.CHECKS FOR STATOR CORE ASSY, STATOR WINDING ASSEMBLY, ROTOR WINDING ASSY,GEN, GENERATOR ROTOR- FINAL BEARING ASSEMBLY/SHAFT SEAL ASSEMBLY, EXCITER ASSY (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.										
C- MAJOR COMPONENTS FOR GE MAKE GENERATOR (AS PER OEM SPECIFIC DESIGN):											
145	Stator Frame with manhole cover (Fabrication & Machining)	CAT I			ALSTOM Power Sp. z o.o. Alstom Bharat Forge Power Limited	Poland Sanand	A				
					ISGEC	YAMUNA NAGAR	A				
146	Key Bar (Fabrication & Machining)	CAT I			Bright Steel	UK	A				
		II			Jordan Matcon	Poland	A				
		II			ALSTOM Power Sp. z o.o	Poland	A				
		II			Somet	Poland	A			Only M/c	
		II			Empaz	Poland	A			Only M/c	
		I			Shiv Engineering	Vadodara	A			Only M/c	
		I			Alstom Bharat Forge Power Limited	Sanand	A			Only M/c	
		I			Shape Engg.	Haridwar	A			Only M/c	

Project/प्रोजेक्ट : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supplier/सप्लायर : Contract No./अवकाश :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सब-सप्लायर के अनुमति मांगने वाले की सूची SUB-SYSTEM/सिस्टम wise/ELECTRICAL					Doc. No./दस्तावेज : REVISION NO.: 01 DATE/दिनांक : 03.02.2022	
S. No. क्र.सं.	Item /पद	QP/Insp. Cat. वर्ग/श्रेणी	QP No. / वर्ग. सं.	QP Sub- Schedule वर्ग प्र.अनुसूची	Proposed sub-supplier/ प्रस्तावित उप-अपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval status/ category उप-अपूर्तिकर्ता के अनुमति मांगने की स्थिति /वर्ग	Sub-supplier Details sub sch/ उप-अपूर्तिकर्ता के विवरण प्रस्तुतिकाग की सूची	Remarks/टिप्पणी	
147	Dovetail for Stator (Aluminium key profile)	CAT II			Sapa Profiles Kft. ALSTOM Power Sp. z o.o. Somat	Hungary Poland Poland	A A A			
148	End Pressure Plate (Laminated Press plate)	CAT II								
149	Stator Core Punching	CAT II			ALSTOM ALSTOM Power Sp. z o.o. Donako Piti Laminations BHEL	France Poland Poland Hyderabad Jagdishpur	A A A A A			
150	Core Tension Bolt for Stator	I II II II I CAT II			Starwire Boehler Ybistal Profil Energietechnik Essen Empaz Kalyani carpenter	Balabgarh Austria Germany Poland Pune	A A A A A			
151	Insulation of Core Tension Bolt for Stator	CAT II			Empaz ALSTOM Power Sp. z o.o.	Poland Poland	A A			
152	Solid Copper Conductor for Stator Bar	CAT I			VonRoll Pearl Cosmos Mahindra Geaber & Greuller	Switzerland Bangalore Bangalore Bangalore Austria	A A A A A			
153	Hollow Stainless Steel Conductor for Stator Bar	CAT II			Fine Tubes Fischer	UK Austria	A A			
154	Stator Bars	CAT I			ALSTOM Power Sp. z o.o.	Poland	A			
155	Tubes for Connection Bus Bar	CAT II			KME Luvtia Pori Multimetel	Germany Finland Jammu	A A A			

 Project/संकेत : Talcher - III Package/किट : TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता			Contract No./अनुमति:			LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL आशुविदे पून मगर एवर - ईडर के अनुमदन सीदर मदी की पूरी SUB-SYSTEM उप-मणाली ELECTRICAL				Doc No./संकेतः REVISION NO : 01 DATE/तिर : 03.02.2022	
S. No. क्र.सं	Item / म	Q/I Insp. Cat. खपु/ति. अंति	Q/I No./ खपु. सं.	Q/I Sub, Schedule खपु उप-अनुमति	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/थान	Sub-supplier approval status/ category	Sub-supplier Details sub sch/ अपुर्तिकर्ता के विवरण उप अनुमदन की प्रपुर्कम की पूरी	Remarks/टिप्पणी		
156	Connection Bus Bar (Phase Connector)	CAT II			PPU Wojtera	Poland	A				
157	Insulating Hoses for Stator (Water Supply Hoses)	CAT II			ALSTOM Power Sp. z o.o.	Poland	A				
					Dr. Schnabel	Germany	A				
					Siemens	Germany	A				
					Crane Resistoflex	USA	A				
158	Winding Head Support Ring	CAT II									
					Rochling Permali	Germany	A				
					Kompoztyt	Poland	A				
					PCT	USA	A				
					Siemens	Germany	A				
					Texplas	Haridwar	A				
159	Spring for Winding Head Assembly (Console)										
		CAT II			Wolfensberger	Switzerland	A				
		CAT I			RV Engg	Balabgarh	A				
160	Generator Shaft Forging	CAT II									
					Saarschmiede	Germany	A				
					Buderus	Germany	A				
					ISW	Japan	A				
					ICFC	Japan	A				
					SdF Terni	Italy	A				
					SUMITOMO	JAPAN	A				
					FORGEMASTER	UK	A				
					OMZ	RUSSIA	A				
161	Generator Shaft Machining	CAT I									
					Alstom (Switzerland) Ltd.	Switzerland	A				
					Alstom Bharat Forge Power Limited	Sanand	A				
162	Centering Ring Forging	CAT II									
					Bharat Forge	Pune	A				
					Schmiedewerk Sloss	Switzerland	A				
					FORGIT AL SPA VELO D	Italy	A				
					ASTICO LOCALITA						
					Bay Forge	Chennai	A				
163	Centering Ring Machining	CAT II									
					Alstom (Switzerland) Ltd.	Switzerland	A				
					Bharat Forge Limited	Satara	A				

एनटीपीसी NTPC		Project/संकेत: Talcher -III Package/भाग: TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL आशिकी/गुण वार वार - जेड के उपरोक्त सिलि नॉड की सूची SUB-SYSTEM उपकरणों के ELECTRICAL							Doc.No./संकेत: ०१ REVISION NO : 01 DATE/तिथि : 03.02.2022	
		Contract No./अग्रिमंक:					Item / वस्तु	QP/ Insp. Cat. वर्ग/निर्देश श्रेणी	QP No./ अग्रिम सं.	QP Sub. Schedule वर्ग उप-सूची	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval status/ उप-आपूर्तिकर्ता के प्रमाण की स्थिति / गति	Sub-supplier Details sub sch/ उप-आपूर्तिकर्ता के विवरण प्रदर्शनीकरण की सूची	Remarks/टिप्पणी
	S. N. क्र.सं.														
164		Retaining Ring FORGING (Mat.18-18Cr-Mn)	CAT II							Energetechnik Essen	Germany	A			
										Saarschmiede	Germany	A			
										ISW	Japan	A			
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			
										Wieland	Germany	A			
										Buntmetall	Austria	A			
167		Field Lead Core Bar for Rotor	CAT II							Swissmetall	Switzerland	A			
										Buntmetall	Austria	A			
										Wieland	Germany	A			
168		Radial Bolt for Rotor	CAT II							Alstom	Switzerland	A			
										Starwire	Ballabgarh	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			
										Wieland	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												
172.1		Hydrogen Blower Assembly	CAT II							FIMA	Germany	A			
										Alstom (Switzerland) Ltd.	Switzerland	A			
173		Terminal Bushing(Condenser type)	CAT II							Trench (Emily new name)	France	A			
										HSP	Germany	A			

Project/वेबसाइट: Talcher - III Package/पैकेज: TALCHER III EPC PACKAGE Supplier/ अनुपूर्वक Contract No./अवकाश:		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL. आवान्टिफ़िकेशन योजना आवक - उप-उप-अनुपूर्वक की सूची SUB-SYSTEM/प्रणाली: ELECTRICAL										Doc.No./ आवक: REVISION NO: 01 DATE/तिथि : 03.02.2022	
		S. N. क्र.सं.	Item / मं	Q/I Insp. Cat. अनुसू. ति. श्रेणी	Q/I No./ अनुसू. सं.	Q/I Sub. Schedule अनुसू. अनुसू. सं.	Proposed sub-supplier/ प्रस्तावित उप अनुपूर्वक	Place/स्थान	Sub-suppliers approval status/ category उप अनुपूर्वक के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप अनुपूर्वक के विवरण प्रस्तुतकरण की सूची	Remarks/टिप्पण		
174	Terminal Box Fabrication	CAT II				ALSTOM Power Sp. z o.o.	Poland	A					
						ISGEC	Yamunanagr	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	Yamunanagr	A					
175.1	End Shield Machining	CAT I				ALSTOM Power Sp. z o.o.	Poland	A					
						ISGEC	Yamunanagr	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					
						GEA	Germany	A					
						TRANIER	Pune	A					
						IDMC Ltd	Anand	A					
178	Stator water cooling unit	CAT II											
						Rockfin	Poland	A					
179	Stator water cooling pump	CAT II											
						ALWELLER	GERMANY	A					
						KSB	Pune	A					
						Ebera	Japan	A					
						SULZER	Navi Mumbai	A					
180	Ship Ring Shaft Forging	CAT II											
						See Generator Forging Suppliers							
						Bharat forge	Pune	A					
						BAY FORGE	Chennai	A					
180.1	Ship Ring Shaft Machining	CAT II											
						Alstom (Switzerland) Ltd.	Switzerland	A					
						Euroflex Transmission(india) pvt. Ltd.	Hydrabad	A					

		Project/संकेत : Talcher -III Package/किट : TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL प्राविष्टि पूरा नगर एक -अंतर के अनुमान सौदा की पूरी SUB-SYSTEM उप-प्रणाली ELECTRICAL				Doc.No./संकेत : REVISION NO: 01 DATE/दिनांक : 03.02.2022	
		Contract No./अनुवार्त:									
S. N. क्र.सं	Item /सं	QI/Insp. Cat. वर्ग/सं. श्रेणी	QI No./ वर्ग सं. श्रेणी	QI Sub, Schedule वर्ग अनुवार्त	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ उप-आपूर्तिकर्ता के अनुमान की स्थिति/श्रेणी	Sub-supplier Details sub schy अनुवार्त के विवरण अनुवार्त की पूरी	Remarks/टिप्पणी		
181	DC Lead Assembly for Slip Ring	CAT II			Alstom (Switzerland) Ltd.	Switzerland	A				
181.1	Slip Ring Shaft Assembly	CAT I			Alstom (Switzerland) Ltd.	Switzerland	A				
182	Seal Oil Pump	CAT I			Euroflex Transmission(India) pvt. Ltd.	Hydrabad	A	Only M/c			
					Allweiler	Germany	A				
					Allweiler	DAMAN	A				
183	Seal Oil Cooler	CAT I			UT PUMP	FARIDABAD	A				
					GEA	Germany	A				
					Alpha Level	EUROPE	A				
					Alfa level	Satara	A				
					ALPHA Laval	Sweden	A				
					FRANTER	Pune	A				
184	Seal Oil Unit	CAT II			Rockfin	Poland	A				
185	Hydrogen Cooler	CAT I			GEA	Germany	A				
					Kelvion	Pune	A				
					Laxmi	Bhopal	A				
186	Hydrogen driven(Refrigrant Type)	CAT I			lirdal electrical	Roorkee	A				
					Melcon engg	G. NOIDA	A				
187	Copper connector between main rotor and slip ring shaft(radial stud)	CAT II			SWISS METAL	Switzerland	A				
					Priester Selag AG	Germany	A				
188	Carbon Brush & Holders	CAT III			Morgan	Germany	A				
					Vidhyut Carbon	Hardwar	A				
					National Carbon	Kolkata	A				
					G. Dietrich (belongs to CL)	Germany	A				
189	ETS Material	CAT I			Thyssen Krupp	NASIK	A				
		CAT I			Mitsubishi	Japan	A				
		CAT II			Arcelor	Luxemburg	A				
		CAT II			Salzgitter	Germany	A				
		CAT II			Alloverze	Germany	A				
		CAT I			ISW	BELLARY	A				
		CAT II			IFE	Japan	A				

Project/संकेत: Talcher-III Package/पैकेज: TALCHER III EPC PACKAGE Supply/सप्लायिंग: Contract No./संकेत:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL. प्रमाणित करने तथा सब-सप्लायर के अनुमति सहित चर्चा की सूची SUB-SYSTEM/प्रणाली/विद्युत				Doc.No./संकेत: REVISION NO:-01 DATE/दिनांक : 03.02.2022	
S. No. क्र.सं.	Item /पद	QP/Insp. Cat. वर्ग/प्रति. श्रेणी	QP No. / Schedule वर्ग प्र.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप-सप्लायर	Place/स्थान	Sub-supplier approval status/ category उप-सप्लायर के अनुमति की स्थिति /श्रेणी	Sub- supplier Details sub-sch/ उप- आपूर्तिकर्ता के विवरण प्रस्तुतिकरण की सूची	Remarks/टिप्पणी	
190	Radial Leads (Slip Ring Shaft)	CAT II		Schmelzmetall AG	Switzerland	A		ALSO FOR SL NO 71	
191	Connection Rod for main Rotor	CAT II		Weiland werke Swiss Metal	Germany Switzerland	A A			
192	Excitation System	CAT I		Alstom Power Sp. z o.o GE power	Poland NOIDA	A A			
193	GHM(Generator health monitoring system)	CAT I			Noida	A			
194	Excitation AC-DC Bus duct	CAT I		Elacom REEP	Belgium Chennai	A A		for Cast Resin	
				C&S	NOIDA	A			
NOTE	1. CHECKS FOR STATOR CORE ASSLY, STATOR WINDING ASSEMBLY, ROTOR WINDING ASSEMBLY, 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.								
	D- MAJOR COMPONENTS FOR TOSHIBA MAKE GENERATOR (AS PER OEM SPECIFIC DESIGN):								
195	STATOR FRAME WITH MAN HOLE COVER FABRICATION & MACHINING	CAT I		TOSHIBA TIJS	JAPAN CHENNAI	A A			
196	KEY BAR FABRICATION AND MACHINING	CAT I		TOSHIBA Kalyani Carpenter (Material) Pune Gwalior	CHENNAI Pune Gwalior	A A A			
197	KEY BAR ASSEMBLY	CAT I		TOSHIBA TIJS	JAPAN CHENNAI	A A			
198	DOVETAIL FOR STATOR	CAT I		TOSHIBA TIJS	JAPAN CHENNAI	A A			
199	END PRESSURE PLATE - Fabrication	II I CAT II		TOSHIBA TIJS	JAPAN CHENNAI	A A			
199.1	End Pressure Plate - Machining			Sharp Engineering Pune	CHENNAI Pune	A A			
				NS Engg	Hyderabad	A			

एनटीपीसी NTPC			Project/संस्करण : Talcher - III Package/किरात : TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता Contract No./अनुबंध संख्या:			LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL प्राविष्टि कृत वस्तु सभी -अंश के अनुमोदन सहित चर्चा की सूची SUB-SYSTEM/अवयवगत विद्युत				Doc.No./दस्तावेज संख्या REVISION NO : 01 DATE/दिनांक : 03.02.2022	
S. No. क्र.सं.	Item / वस्तु	Q/ Insp. Cat. स्तर/वर्ग, निर्माण श्रेणी	Q/ No. / अनुमो. सं.	Q/ Sub. Schedule/सूची अनुमोदक	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval status/ उप-आपूर्तिकर्ता के अनुमोदन की स्थिति /विण	Sub-supplier Details sub sch/ उप- आपूर्तिकर्ता के विवरण अनुमोदक की सूची	Remarks/टिप्पणी		
200	STATOR CORE PUNCHING	I II			TIPS TOSHIBA	CHENNAI JAPAN	A A				
201	TERMINAL BOX FABRICATION& MACHINING	II I I			TOSHIBA TIPS Leo Prime	JAPAN CHENNAI Chennai	A A 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			PASSONI & VILLA French Toshiba	ITALY Switzerland Japan	A A A				
206	CONNECTING BUS BAR (PHASE BELTS) FABRICATION	CAT II			SUMIKEL COPPER Oriental Copper Hirachi Cable	JAPAN Thailand Japan	A A A				
207	INSULATING HOSES FOR STATOR (WATER SUPPLY HOSES)	CAT II			SAKURA RUBBER CRANE RESISTOFLEX MIL	JAPAN USA Chennai	A A A				
208	GENERATOR SHAFT FORGING	CAT II			SAARSCHMIEDT SOFITALY JCFC JSW BLUDERS EDESTAHL Doosan	GERMANY ITALY JAPAN JAPAN GERMANY Korea	A A A A A A				
208.1	GENERATOR SHAFT MACHINING	CAT I			TOSHIBA TIPS	JAPAN CHENNAI	A A				
209	EIS MATERIAL	CAT II			NIPPON JFE	JAPAN JAPAN	A A				

एनटीपीसी NTPC		Project/संस्करण : Talcher - III				LIST OF ITEMS REQUIRING QUALITY PLAN				Doc No./दस्तावेज सं.	
		Package/किरात : TALCHER III EPC PACKAGE				AND SUB-SUPPLIER APPROVAL				REVISION NO : 01	
		Supply/आपूर्ति				सभी उप-सप्लायर की स्वीकृति				DATE/दिनांक : 03.02.2022	
		Contract No./अनुबंध सं.				SUB-SYSTEM/उप-प्रणाली ELECTRICAL					
S. N. क्र.सं.	Item / वस्तु	Q/ Insp. Cat. स्वीकृति/प्रति. श्रेणी	Q/ No. / स्वीकृति सं.	Q/ Sub, Schedule/अनु. अनुसूची	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ उप-आपूर्तिकर्ता के अनुमोदन की स्थिति/श्रेणी	Sub- supplier Details sub sch/ अनु. अनुसूची	Remarks/टिप्पणी		
210	RETAINING RING FORGING (MAT-CMn 18-18)	CAT II			SAARCSHMEDE	GERMANY	A				
					ISW	JAPAN	A				
210.1	RETAINING RING MACHINING	CAT II									
					TOSHIBA	JAPAN	A				
					TIPS	Chennai	A				
211	SILVER BEARING COPPER HOLLOW STRIPS (ROTOR COIL)	CAT II									
					ORIENTAL COPPER	THAILAND	A				
212	FIELD LEAD CORE BAR FOR ROTOR WITH D LEAD	CAT II									
					KME	GERMANY	A				
					ORIENTAL COPPER	THAILAND	A				
213	CURRENT CARRYING BOLTS FOR ROTOR	CAT II			BAOSHI DA SWISS METAL	GERMANY	A				
					TOYO KOCYO	JAPAN	A				
214	ROTOR COIL FORMING	CAT II			TOSHIBA	JAPAN	A				
					TOSHIBA	JAPAN	A				
					TIPS	Chennai	A				
215	ROTOR SLOT WEDGES & DAMPER WEDGES FABRICATION & MACHINING	CAT II									
					MURUKAMI	JAPAN	A				
					FLAV	ITALY	A				
					TOSHIBA	JAPAN	A				
216	GENERATOR ROTOR-FINAL	CAT I									
					TOSHIBA	JAPAN	A				
					TIPS	Chennai	A				
217	MOLDED INSULATION RING (FAN NOZZLE RIM)	CAT I									
		II			PCT	USA	A				
218	FAN BLADE ASLY ON ROTOR	I			PERMALI WALACE	Bhopal	A				
		II			TOSHIBA	JAPAN	A				
		I			TIPS	Chennai	A				
219	D LEAD (FL CORE BAR)& CONTACT BOLT FOR SLIP RING										
		I			TIPS	Chennai	A				
		II			TOSHIBA	JAPAN	A				
220	END SHIELD FABRICATION & MACHINING	CAT I									
					SHAPE	HARIDWAR	A				
					TIPS	Chennai	A				

		Project/संशोधन : Talcher - III Package/पैकेज : TALCHER III EPC PACKAGE Supplier/सप्लायर Contract No./संशोधन:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL. ज्ञातित, कृत नवा सब-सुप्लायर के अनुमति सहित चर्चा की सुची SUB-SYSTEM/सब-सिस्टम/सब-सिस्टम ELECTRICAL				Doc.No./संशोधन: REVISION NO.-01 DATE/दिनांक : 03.02.2022	
		S. N. क्र.सं.	Item /पद	QP/ Insp. Cat. वर्ग/प्रति. श्रेणी	QP No. / क्र.पं. सं.	QP Sub. Schedule वर्ग उप-सुची	Proposed sub-supplier/ प्रस्तावित उप-सप्लायर	Place/स्थान	Sub-supplier approval status/ category उप-सप्लायर के अनुमति की श्रेणी/वर्ग	Sub-supplier Details sub-sch/ उप-सुची	Remarks/टिप्पणी
		221	Bearing (CE & TE)	II			DSE	Korea	A		
				I			Omega Rank	Bhopal	A		
				II			DYM	Korea	A		
		222	CENTERING RING FORGING	I			RAY FORGE	CHENNAI	A		
				II			MINATO KIKO	JAPAN	A		
				II			NISHIMAKI IRON WORKS	JAPAN	A		
				I			GOODLUCK	GHATIAHABAD	A		
		223	SEAL ASSLY (RING & HOUSING)	CAT II			TOSHIBA	JAPAN	A		
		224	SLIP RING SHAFT ASSLY	I			TIPS	Chennai	A		
				II			TOSHIBA	JAPAN	A		
		225	FAN BLADE FORGING & MACHINING	II			MURAKAMI SEISAKUSHO	JAPAN	A		
				I			TIPS	Chennai	A		
				I			Azad	Hyderabad	A		
				II			TOSHIBA	JAPAN	A		
		226	HYDROGEN COOLER	CAT II			ENERGYEN	KOREA	A		
							KITASHIBA ELECTRIC	JAPAN	A		
							Karnataka Gas Coolers	Bangalore	A		
		227	AC/DC BUSDUCT	CAT I			SPACEAGE	GURGAON	A		
							REEP	CHENNAI	A		
							C&S ELECTRIC	Noida/HARIDWAR	A		
		228	EXCITATION TRANSFORMER (DRY TYPE)	CAT I			RITZ	GERMANY	A		UPTO 8 MVA
							BHEL	JHANSI	A		UPTO 6 MVA
		229	EXCITATION SYSTEM	CAT I			TOSHIBA	JAPAN	A		
							ABB	Bangalore	A		
		230	HYDROGEN DRIER	CAT I			HINDAL ELECTRONICS	ROORKEE	A		
							MELCON ENGG	GREATER NOIDA	A		
							SPAN MANUFACTURING CO	ROORKEE	A		
							PVT LTD		A		
NOTE		1. CHECKS FOR STATOR CORE ASSLY, STATOR WINDING ASSEMBLY, ROTOR WINDING ASSEMBLY, 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.									

		Project/स्रोतमार्ग : Talcher - III Package/भाग : TALCHER III EPC PACKAGE Supply/आपूर्ति Contract No./अग्रहस्त:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सब-सप्लायर के अनुमोदन माँग करने की सूची SUB-SYSTEM/प्रणाली: ELECTRICAL				Doc.No./संख्या: REVISION NO.: 01 DATE/तिथि : 03/02/2022	
S. No. क्र.सं.	Item /पद	QP/Insp. Cat. वर्ग/विश. श्रेणी	QP No. / वर्ग. सं.	QP Sub, Schedule वर्ग प्र.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ category उप-आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub- supplier Details sub sch/ उप- आपूर्तिकर्ता के विवरण प्रस्तुतिकरण की सूची	Remarks/टिप्पणी		
Items Identified as Main Contractor approved sources											
MC 1	Tubular Type Heater		III								
MC 2	Interlocks for ESP		III								
MC 3	Porcelain Bushing Insulators		III								
MC 4	Continuous Cast Copper Rod		III								
MC 5	Unimpregnated Denseified Wood		III								
MC 6	Marshalling Box Components		III								
MC 8	Air Cell		III								
MC 9	Terminal Connector		III								
MC 10	Oil Flow Indicator		III								
MC 11	Pressure Relief Valve		III								
MC 12	Magnetic Oil Level Gauge		III								
MC 13	OTI/WHI (RTD Type)		III								
MC 14	OH-Circuit Tap Changer		III								
MC 15	Cooling Fan & Motor Assembly		III								
MC 16	Silica Gel Breather		III								
MC 17	Bushing, Metal Parts		III								
MC 18	Copper Conductor Bus Bar		III								
MC 19	Copper Foil/Sheet for Dry Type Transformer		III								
MC 20	Core-cheese assembly for Bus Reactor		III								
MC 21	Core Clamps & OLTC Bracket, Core/Tie Bolt, Rods & Nuts		III								
MC 22	Epoxy Casting Material for Dry Type Transformer		III								
MC 23	Fibre Glass Covered Copper Conductor for Dry Type Transformer		III								
MC 24	Fibre Glass Sheet for Dry Type Transformer		III								
MC 25	Gaskets		III								
MC 26	Hardwares		III								
MC 27	Motor for OLTC		III								
MC 28	Sheet Metal Enclosure for Dry Type Transformer		III								
MC 29	Steel Plate & Pipe		III								
MC 30	Tank Fabrication up to 5 MVA		III								
MC 31	Temperature Surveillance Unit for Dry Type Transformer		III								
MC 32	Valves (for Radiator/Gun Metal/CI valves,etc.)		III								
MC 33	Gas Collecting Device		III								

		Project/वेबिनर : Talcher -III Package/पैकेज : TALCHER III EPC PACKAGE Supplier/ आपूर्तिकर्ता				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL आशिकृत पून तब पल -वेबिनर के अनुमेद सलत नदों की सूची SUB-SYSTEM उप-अणालीत ELECTRICAL					Doc.No/ दललर नदः REVISION NO: 01 DATE/तलर : 03.02.2022	
Contract No/ अनुमेदः												
S. N. नदर	Item / तल	QP/Insp. Cat. सलत/नलर. नं.	QP No./ सलत. नं.	QP Sub, Schedule सलत उप-अनुसूतल	Proposed sub-supplier/ प्रसलतलत उप अनुललकलत	Place/सलत	Sub- supplier approval status/ category उप अनुललकलत के अनुमेद की सलतल /अलत	Sub- supplier Details sub sch/ उप अनुललकलत के वलवरण प्रसूतलतलत की सूची	Remarks/तलतल			
MC 34	Networking of Numerical Relay	*(with Switchgear MQP)										
MC 35	Paint	III										
MC 36	Copper for Copper Flats & Copper strips /flexibles	III										
MC 37	OIL PURIFYING EQUIPMENT	CAT III										
MC 38	VACUUM PUMP WITH MOTOR	CAT III										
MC 39	ON LINE MOISTURE REMOVAL SYSTEM	CAT III										
MC 40	Oil Tanker (wheel mounted),10 kL capacity	CAT III										
MC 41	POST INSULATOR	CAT II										
MC 42	DISC INSULATOR/ PIN INSULATOR	CAT II										
MC 43	FIBRE OPTIC CABLE	CAT I										
MC 44	EVENT LOGGER	CAT III										
MC 45	GPS TIME SYNCHRONISATION EQUIPMENT	CAT III										
MC 46	RELAY TEST KIT	CAT III										
MC 47	DISTURBANCE RECORDER	CAT III										
MC 48	OPERATIONAL ANALYSER WITH DCRM KIT	CAT III										
MC 49	FOTE	CAT II										
MC 50	OPGW	CAT II										
MC 51	LARGE VIDEO SCREEN (LVS)	CAT III										
MC 52	BELTWEIGHER	CAT II										
MC 53	WEIGH BRIDGE	CAT I										
MC 54	IN LINE MAGNETIC SEPARATOR / SUSPENDED MAGNET	CAT II										
MC 55	METAL DETECTOR	CAT II										
MC 56	CABLE REELING DRUMS	CAT II										
MC 57	PIANO SWITCHES	CAT III										
MC 58	PULL CORD / BELTSWAY / INDICATION SYSTEM	CAT II										
MC 59	ELECTRONIC SPEED SWITCH, ZSS, TILT SWITCH, MAGNETIC SWITCH, PROXIMITY SWITCH	CAT II										
MC 60	HEAVY DUTY LIMIT SWITCHES	CAT II										
MC 61	UNDER BELT SWITCH	CAT II										
MC 62	GI CABLE TRAYS AND ACCESSORIES (LADDER & PERFORATED TYPE), fitting & accessories including bends	CAT II										

Project/संकेत : Talcher-III Package/किट : LALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता Contract No./ अनुबंध सं.										Doc.No./ दस्तावेज सं. REVISION NO. : 01 DATE/दिनांक : 03.02.2022			
LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL सब-सप्लायर के अनुमोदन सहित मदों की सूची SUB-SYSTEM/प्रणाली ELECTRICAL													
S. N. क्र.सं.	Item /मद	QP/ Insp. Cat. स्तर/प्रति. श्रेणी	QP No. / स्तर सं.	QP Sub. Schedule/सूची अनुसूची	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ category	Sub-supplier Details sub sch/ पर	Remarks/टिप्पणी				
MC 63	GFLEXIBLE CABLE TRAY SUPPORT SYSTEM	CAT II											
MC 64	Cable termination kits & straight through jointing kit	CAT II											
MC 65	Lighting fixtures with accessories (Filament type)	CAT II											
MC 66	Lighting fixtures with accessories (LED type)	CAT II											
MC 67	VFD MOTOR	CAT I											
MC 68	HVTR-SET (Power Plus)	CAT I											
MC 69	Insulators for ESP (Bushing, Support , Shaft)	CAT III											
MC 70	Fire sealing system - Type A Material supplier	CAT II											
MC 71	Fire sealing system - Type B Material supplier	CAT III											
MC 72	Executing Agency for Fire sealing system	CAT I											
MC 73	Porcelain Insulator	CAT III											
MC 74	Lighting & Welding Transformer	CAT III											
MC 75	Industrial /welding receptacles & boxes	CAT III											
MC 76	LT Switchgear - Wall mounted fixed type indoor / outdoor LT Switchgear non compartmentalized Panel (Lighting panels / AC / DC Fuse boards etc.)	CAT II											
12 LIST OF MAJOR EQUIPMENT(POWER TRANSFORMER)									SOURCES FOR THESE ITEMS SHALL BE FINALIZED DURING DETAILED ENGINEERING AND MQP FINALIZATION				
1	CRGO STEEL	CAT II											
2	TANK FABRICATION	CAT II											
3	CRGO PROCESSORS	CAT II											
4	CONTINUOUSLY TRANSPOSED CONDUCTOR	CAT II											
5	PAPER INSULATED COPPER CONDUCTOR	CAT II											
6	INSULATING PAPER for PICC	CAT III											
7	MOULDED INSULATION COMPONENTS	CAT III											
8	PRE-COMPRESSED BOARDS & INSULATION COMPONENTS	CAT III											
9	OIL PUMP AND MOTOR SET	CAT II											
10	BUCHOLZ RELAY	CAT III											

		Project/समय: Talcher - III				Doc No./संख्या: 42			
		Package/भाग: TALCHER III EPC PACKAGE				REVISION NO.: 01			
		Supply/आपूर्ति:				DATE/दिनांक: 03.02.2022			
		Contract No./संख्या:							
		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL प्रतिक्रिया प्रदान कर सब-सुप्लायर के अनुमति सहित मदों की सूची				SUB-SYSTEM/प्रणाली: ELECTRICAL			
S. N. क्र.सं.	Item/मं	QP/ Insp. Cat. क्र./प्रति.	QP No./ क्र./प्रति.	QP Sub, Schedule/सूची	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-supplier approval status/ उप-आपूर्तिकर्ता के अनुमति की स्थिति/प्रति.	Sub-supplier Details sub sch/ उप-सूची	Remarks/टिप्पणी
11	ON LOAD TAP CHANGER	CAT III							
12	ONAF COOLER	CAT III							
13	RADIATORS	CAT II							
14	REGENERATIVE MAINTENANCE FREE BREATHER	CAT III							
15	CMS System	CAT I							
16	CMS PANEL	CAT II							
17	TRANSFORMER TESTING & MAINTENANCE EQUIPMENTS	CAT III							
12 LIST OF BUS DUCTS									
1	Air Pressurisation Equipment	CAT II							
2	Hot Air Blower	CAT II							
3	LAVT Cubicle / NG Cubicle/ Marshalling Box	CAT II							
4	CT for IPBD	CAT II							
5	Epoxy Seal off bushing / Insulators	CAT II							
NOTE 12 LIST OF SWITCH GEAR									
1	Numerical Relays	CAT I							SOURCES FOR THESE ITEMS SHALL BE FINALIZED DURING DETAILED ENGINEERING AND MQP FINALIZATION
2	Silver Plating	CAT III							SUB-QR CLEARED VENDORS ARE ACCEPTABLE FOR NUMERICAL RELAYS
3	LV Air Circuit Breaker	CAT I							
4	LT CT/PT/CBCT / Control Transformer	CAT II							
5	MV Vacuum Type Circuit Breaker	CAT I							
6	MV CT / PT & CBCT	CAT I							
7	MCBs	CAT III							
8	ENERGY METER	CAT III							
9	H.V. Fuse	CAT III							
10	Terminal Blocks (Control)	CAT III							
11	Surge Capacitors	CAT II							
NOTES:									
Note - 1 : Vendors to submit project specific documents as per Sub-QR requirements in case the Vendor is approved under collaboration agreement.									
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 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.									
Note - 4: BOI shall be reviewed and finalised during MQP approval for items/ systems where ever applicable.									

	Project/संकेत: Talcher-III Package/पैकेज: TALCHER III EPC PACKAGE Supplier/आपूर्तिकर्ता:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL जारीत हुआ है जारी -अंडर के अनुमति नहीं की है SUB-SYSTEMअनुमति ELECTRICAL			Doc.No./संकेत: REVISION NO: 01 DATE/दिनांक: 03.02.2022	
	Contract No./अनुमति:								
	S. N. क्र.सं.	Item/पद	QTY/Insp. Cat. अंश/निर्माण	QTY No./ अंश/क्र.सं.	QTY Sub. Schedule अंश/अनुमति	Proposed sub-supplier/ अनुमति पर अनुमति	Place/स्थान	Sub-supplier approval status/ अनुमति पर अनुमति के बिना अनुमति की स्थिति/अंश	Sub-supplier Details sub sch/ अनुमति पर अनुमति के बिना अनुमति की स्थिति/अंश
Note - 5: Category of inspection for LT Cables: For Total Contract Quantity per Size For cable total quantity ≤ 2.5 KM For cable total quantity above 2.5 km & up to ≤ 10 km per size/type For cable total quantity above 10 km per size/type									
Note - 6: Category of inspection for Cable Trays & Cable Tray Flexible Support System: For Total Contract Quantity per Size For cable total quantity ≤ 2.5 KM For cable total quantity above 2.5 km & up to ≤ 10 km per size/type For cable total quantity above 10 km per size/type									
Note - 7: For Motors less than 50 KW: CAT-III. Acceptance of Motor less than 50 KW is based on COC of the Manufacturer and the Main Contractor confirming as follows: "It is hereby confirmed that the above mentioned motor /motors was/ were manufactured taking care of NTPC specific requirements regarding ambient temp., voltage & frequency variation, hot starts, pull out torque starting KVA/KW, temp. rise, distance between centre of stud & gland plate and tested in accordance with approved drawing /data sheets". For Motors 50 KW and less than 75 KW: CAT- II. Acceptance of Motor is based on NTPC review of Routine Test inspection report as per IS 12615 / applicable standards duly witnessed by main contractor along with COC of the Manufacturer and the Main Contractor confirming as follows: "It is hereby confirmed that the above mentioned motor /motors was/ were manufactured taking care of NTPC specific requirements regarding ambient temp., voltage & frequency variation, hot starts, pull out torque starting KVA/KW, temp. rise, distance between centre of stud & gland plate, space heater and tested in accordance with approved drawing /data sheets". For Motors 75 KW & above : CAT-I. AS PER NTPC APPROVED QUALITY PLAN (to be submitted separately for NTPC review & approval).									
Note - 8: NTPC approved Galvanizers: 1. M/s M J Engg. Delhi 2. M/s A V. Engg. Kolkata 3. M/s Iar Profiles, Vishakapatham 4. M/s Anand Udyog, Mumbai 5. M/s Techno Engg. Chandigarh 6. M/S Steelite Engg. Mumbai 7. M/s National Galvanizer, Kolkata 8. M/s Unistar Galvanizer, Kolkata 9. M/s B.P. Project, Kolkata 10. M/s Bajaj Pune 11. M/s Electrocare Industries, Mumbai 12. M/s B.G. Shukla, Pune 13. M/s Gurpreet Galvanizer, Hyderabad 14. M/s Sigma, Mumbai 15. M/s Radhakrishnan Shetty, Chennai 16. Karantara Mumbai 17. Poona Galvanizers Pune 18. Neha Galvanizer- Kolkata 19. Unitech Fabricators & Galvanizers- Hoogly									

		Project/वेबिनार : Talcher -III				Doc.No./आवृत्ति: REVISION NO.:01			
		Package/बैक: TALCHER III EPC PACKAGE				DATE/तिथि : 03.02.2022			
		Supplier/आपूर्तिकर्ता							
		Contract No./अवृत्ति:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL आवृत्ति/यून वहां SUB-SYSTEM/उप-प्रणाली: ELECTRICAL			
S.N. क्र.सं	Item / वस्तु	QI/ Insp. Cat. आवृत्ति/ निरीक्षण श्रेणी	QI No./ आवृत्ति क्र. सं.	QI Sub. Schedule आवृत्ति उप-सूचिका	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/स्थान	Sub-suppliers approval status/ category उप-आपूर्तिकर्ता के अनुमति की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप-आपूर्तिकर्ता के विवरण पर अनुमति/यून की सूची	Remarks/टिप्पणी
Note - 9: Relevant certificates shall be submitted for NTPC approval. Approval conditions attached to above identified vendors, as applicable shall be adhered to.									
Note - 10 : Indigenous sub-vendors for Annexure-I items are acceptable subject to meeting the MLC (Minimum Local Content) in line with latest MOP order.									
LEGENDS/संकेतिका SYSTEM SUPPLIER/SUB-SUPPLIER APPROVAL STATUS CATEGORY/आवृत्ति-अवृत्ति/वस्तु-उप-वस्तु की वर्गीकरण की स्थिति की श्रेणी (SHALL BE FILLED BY NTPC सदस्यों द्वारा या आवृत्ति) 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 वस्तुओं के लिए अनुमति प्राप्त सदस्यों को स्वीकार्य है, अनुमति की शर्तों, यदि कोई हों, के साथ-साथ वस्तु "A" में दर्शाया जाएगा। DR - For these items "Detailed required" for NTPC review. To be identified with letter "DR" in the list. सदस्यों द्वारा इन वस्तुओं की समीक्षा के लिए, "विस्तृत आवश्यक" श्रेणी में "DR" का उपयोग किया जाएगा। QI/ANSPN CATEGORY: आवृत्ति/प्रणाली की श्रेणी CAT-I/आवृत्ति-I For these items the Quality Plans are approved by NTPC and the final acceptance will be on physical inspection witness 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 वस्तुओं के लिए गुणवत्ता योजनाएं NTPC द्वारा अनुमोदित हैं और सदस्यों द्वारा अंतिम स्वीकृति भौतिक जांच के बिना उपलब्धता पर NTPC की आधार पर की जाएगी। CAT-II/आवृत्ति-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 वस्तुओं के लिए गुणवत्ता योजनाएं NTPC द्वारा अनुमोदित हैं और सदस्यों द्वारा अंतिम स्वीकृति भौतिक जांच के बिना उपलब्धता पर NTPC की आधार पर की जाएगी। CAT-III/आवृत्ति-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 (COQ) by Main Contractor. UNITS/WORKS/प्रणाली/वर्क Place of manufacturing/आवृत्ति का स्थान Place of manufacturing/प्रणाली/वर्क/प्रणाली/वर्क के गुणवत्ता नियंत्रण का स्थान. Control measure of item covered in quality plan of main item.									

PROJECT : Talcher-III (2X660MW) PACKAGE : EPC PACKAGES CONTRACTOR: CONTRACT NO :										LIST OF C&I ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL				REVISION NO : 00 DATE :04.02.2022	
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				
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				Enviroment 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				
		I				Chemtrol Engineering Ltd	Goa	A			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				Lucent Marcons Pvt Ltd (As a system Integrator of M/S Scientific Environmental Instruments, Inc. (SEI) USA)	Noida	A			1.Boiler watch processor control unit, acoustic sensor (Pizco/Microphone with pre-fab 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				

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
3	Addressable Detector (Multisensor , Photo & Heat Detectors Type), Interface units & Manual call points	I				Hi-Tech Systems & Services Ltd (As a system Integrator of M/S Bonnenberg + Drescher GmbH, Germany)	Kolkata	A			1.All critical components are to be procured from M/S Bonnenberg + Drescher GmbH, Germany 2.Standard indigenous components like Solenoid valve (Asco make) ,matching flange ,printer & monitor table shall be supplied by M/S Hi- Tech
		II				Scientific Environment Instrument Inc (SEI)	USA	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
		II				Bonnenberg + Drescher GmbH, STOCK Equipment Co	Germany USA	A A			
		II				Honeywell Life Safety-HIPL	Gurugram	A			Notifier Brand (Detector, Interface Module only)
		II				Schrack	Austria	A			
		II				Autronica	Norway	A			
		II				Edwards	Mexico	A			
		II				Notifier	USA	A			
		II				Sheld 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
		III				Pyrotech Electronics Pvt. Ltd	Udaipur	A			
5	Blank Panels / Cabinets	III				Rittal India Private Ltd	Bengaluru	A			
		III				Hoffman	Bengaluru	A			
		III				BHEL	Bengaluru	A			
		III						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/COA/9573-102/Hi-tech-AMfi 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	Trichurpalli	A			
		III				Instrotech (PTY) Ltd	South Africa	A			

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
		III				Rectuson Co. Ltd	S Korea	A			
		III				Procon Engineering	UK	A			
		III				Acoustic Monitoring International Inc. (AMII)	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.
		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.
7A	CCTV System (IP Based) /System Integrators										
		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 3.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										

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
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				Bomafa 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
9-B		Control Valve for Start Up System	I				Control Component India PVT Ltd	Sricity (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			
			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			
			II				Dresser Produits industriels Industriels S.A.S	France	A			
			II				SEMPELL AG	Germany	A			Up To size 20 Inches & 2500 ANSI Class
			II				Nihon Koso Co Ltd	Japan	A			
			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

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
		II				Dresser Produits industriels	France	A			
		II				Industriels S.A.S	Japan	A			
		II				Nihon Koso Co Ltd	USA	A			
		II				CCI	USA/France/Japan	A			
		II				Emerson (Fisher)					
9-D	Control valve for feedwater flow Control										
		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			Control valve body assembly will be from Nippon Fisher Japan with IER form III C certificates.
		I				Emerson Process Management Ltd	Chennai	A			
		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			CONDITIONAL
		II				Nihon Koso Co Ltd	USA / Austria / S.Korea / Switzerland	A			
		II				CCI					
		II				Emerson (Fisher)	USA/France/Japan	A			
9-E	Control valves for Soot blower pressure reducing ,SH/ RH Attenuation.										
		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			
		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

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 Approval SCH	Remark
								Detail	Sub.SCH		
		II				Nihon Koso Co Ltd	Japan	A			only for SH / RH/ up to 2500 class
		II				Dresser Masonellan	USA	A			
		II				Dresser Produits industriels S.A.S	France	A			
		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	A			
		II				Emerson (Fisher)	USA/France	A			
9-F	Control valve(Other application)	I				Mascot Valves Pvt Ltd	Ahmedabad	A			Up to size 12 inches & 900 ANSI class
		I				Control Component India PVT Ltd	Stricity (Andhra Pradesh)	A			Up to 2500 ANSI class
		I				KOSO India Pvt Ltd	Nasik	A			
		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 Marshal 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	A			
		II				Nihon Koso Co Ltd	S Korea	A			
		II				Emerson (Fisher)	Japan	A			
		II				Leslie Controls Inc	USA/France	A			
		II				PARCOL S.P.A	USA	A			
		II				Dresser Produits industriels S.A.S	Italy	A			
		II				HORA	France	A			
		II				Wellend & Tuxhorn	Germany	A			
		II				SPX Flow Technology	Germany	A			
		II				Sempell AG (Tyco group)	USA	A			
9-G	Control Valve (Ceramic lined)						Germany	A			
		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			
		I				Emerson Process Management Asia Pacific Pvt Ltd	Singapore	A			
		I				Hitachi nest control system Pvt Ltd	Bengaluru	A			

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		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 CQA/NTPC BARH-I 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 CQA/NTPC BARH-I /S-907/M/S SICK India Pvt Ltd dated 28.08.2019
		III				Environment SA India Pvt Ltd	Navi Mumbai	A			1.For ENEVA UK Make Extractive Type Dust density analyser 2. Other components shall be as per approval letter No : CQA/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 Transreceiver type
		III				Codel	UK	A			For In Situ type /Optical Transreceiver type
		III				Durag Industrie Elektronik GmbH & Co KG	Germany	A			For In Situ type /Optical Transreceiver type & Extractive Type
		III				Emerson Process Management	Ireland	A			For In Situ type /Optical Transreceiver type
		III				SICK AG	Germany	A			For In Situ type /Optical Transreceiver 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			
		II				Limitorque	Faridabad	A			Model no L120,SMB,L.Y series, Gear Box T. HBC Series
		II				Rotork	Bengaluru	A			For low torque app (Up to 1000 Nm)
		II				Rotork Controls (India) Private Ltd	Chennai	A			For low torque app (Up to 1000 Nm) & High torque 4000 to 7000 Nm With integral starter for non critical applications

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		III				Auma	Germany	A							
		III				Limitorque	USA	A							
		III				Rotorfk	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				
		III				Flowsolve	USA	A			Also acceptable for Field Bus based applicable				
		III				Bernard Controls	France	A							
12-C	Electrical actuator for ID/FD/PA Blade pitch IGV &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				Baldota 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 FAT				
14	EQMS														

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15	Fiber optic cable	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.
16	Fire alarm Panel	II				Toshniwal Industrial Pvt Ltd	Ajmer	A			1.M/S Notifier Make Fire alarm Panel 2.PI Refer Note-07
17	Flame Monitoring System (Scanner)	I				Lucent Marcons Pvt Ltd (System Integrator of M/S Forney Corporation USA)	Noida	A			1.Flame detector, amplifier ,light guide fiber optic , smart display programming unit , test kit & simulator will be supplied from M/S Forney Corporation USA 2.Other components like outer carrier ,IDD cable with connector , expander , Y connector with adapter gasket , fastners & signal isolators will be supplied from M/S Forney Corporation USA approved sources . 3.PI Refer Note-7

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		I				HI Tech System & services Ltd (System Integrator of BFI Germany)	Kolkata	A			1.For BFI Germany make system 2. PI Refer Note-7
		II				Durag India Instrumentation Pvt Ltd	Bengaluru	A			For Durag Germany make system
		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			Up to Alloy steel material grade P-92 & other conditions as per approval letter
		I				Minco India Flow Elements Pvt. Ltd.	Goa	A			Up to size 26 Inches for Alloy steel/ Stainless steel pipe SA335 P-11, P -22 and SA 335 P-91 & other conditions as per approval letter
		I				Instrumentation Limited	Palakkad (Kerala)	A			Up to alloy steel grade P-92 subject to qualified WPS & other conditions as per approval letter
		I				Starmech controls (India) Pvt Ltd	Pune	A			Up to alloy steel grade P-92 subject to qualified WPS & other conditions as per approval letter
		II				SEIKO	Czech Republic	A			
		II				WISE Control	S Korea	A			
		II				Technomatic	Italy	A			
19	Flue Gas Analyser (CO)										
		III				Forbes Marshall Pvt Ltd	Pune	A			For In situ type CO analyser
											For In situ type CO analyser
		III				ICE (Asia) Pvt Ltd	Mumbai	A			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
		III				Sick India Pvt Ltd	Mumbai	A			3.PI refer Note-7
		III				Emerson Process Management Ltd	Pawane	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				CodeL	UK	A			For M/S Emerson Germany/ USA make Analyser
		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)										

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		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				
		III				Analysar 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														

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		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. SO ₂ ,NO _x & CO ₂ Analyser will be from M/S Yokogawa Electric Corporation Japan . 2.Other Conditional as per approval letter no Ref. No :-CQA/BARH-1 / Y-023/M/s Yokogawa India Ltd dated 21.05.2020	
		I				Adage Automation Pvt Ltd.	Goa	A			For M/s Siemens Germany make SO ₂ ,NO _x & CO ₂ Analysers	
		I				Thermo Fisher Scientific India Pvt. Ltd	Pune	A			Approved only for Dilution Extractive Technique 1)Analyser (SO ₂ ,NO _x ,CO,CO ₂ ,Mercury) sampling probe ,sample handling system ,umbical 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 SO ₂ ,NO _x & CO ₂ 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 /	
		I				Environement SA India Pvt Ltd	Navi Mumbai	A			1.Multipoint gas Analyzers MIR-9000 for SO ₂ , NO _x ,CO ₂ & CO ,Probe ,Nafylon 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/SEnvironment 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	
		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 refire Note-07	
		III				Toshniwal Industries (System Integrator of M/S Mirron UK make system)	Ajmer	A			1. M/S Mirron UK make system 2.PI refer Note-07	
		III				Diamond Power	USA / Sweden	A				

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		Note-2				Goyolene Fibers (India) Pvt Ltd	Silvassa	A			F&G Type Cable
		Note-2				Temsens Instruments Ind Pvt Ltd	Udaipur	A			
		Note-2				Havells India	Alwar	A			F Type Cable
		Note-2				Paramount Communication Ltd	Kushkhera	A			
		Note-2				Polycab	Daman	A			
		Note-2				Delton	Faridabad	A			
		Note-2				KEI	Faridabad	A			
		Note-2				Elkey Telelinks	Bhiwadi (Raj)	A			
		Note-2				CORDS	Faridabad	A			
		Note-2				CORDS	Koharni	A			
		Note-2				Nicco	Bhiwadi	A			
		Note-2				Universal Cable	Kolkata	A			
		Note-2				Thermocables	Satna	A			
		Note-2				Gupta Power Infrastructure Ltd.	Hyderabad	A			
		Note-2				CMI	Mahboobnagar	A			
		Note-2				Advance Cables Pvt Ltd	Khurdha	A			
		Note-2				Gemsab Industries Ltd	Faridabad	A			F&G Type Cable
		Note-2				Apar Industries Limited	Bengaluru	A			F&G Type Cable
		Note-2				Suyog Electrics Ltd	Bhiwadi (Raj)	A			F&G Type Cable
		Note-2				Special Cables Pvt Ltd	Valsad	A			
		Note-2				T C Communication	Halol (Gujrat)	A			
		Note-2				TEW & C	Rudrapur	A			
		Note-2				Habia cables	Ghaziabad	A			
		Note-2				Kerpen cables	USA	A			
		Note-2				Lapp cables	Sweden	A			
		Note-2				Thermo electra Bv	Germany	A			
		Note-2				Chabbi Electricals	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				Elitek SGS Pvt Ltd	Gurgaon	A			
31	Large Video Screen (LED Based)	I				Pyratich Electronics Pvt Ltd	Gurgaon	A			
		I				Delta India Electronics Pvt Ltd	Udaipur	A			
		I				Barco Electronics system (P) Ltd	Gurgaon	A			
		I				Planner System Inc	Noida	A			
32	Level switch- Conductivity type	I				Raman Instruments (System integrator of Delta Morbey/ Emerson Mobrey /Solartion -Mobrey)	USA	A			
		II				HI Tech System & services Ltd (System Integrator of Levelstate systems Ltd ,UK)	Delhi	A			1.M/S Emerson (Morbey) UK system 2.PI refer Note-07
		II				BHEL	Kolkata	A			1. M/S Levelstate UK System . Vessel from M/s Hi Tech 2.PI refer Note-07
		III				Emerson -Mobrey (Solartion m obrey)	Trichurapalli	A			
		III				Levelstate Systems Ltd	UK	A			

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33	Local Instrument Enclosure/Rack	III				Yarway	USA	A							
		I				Pyrotech Electronics Pvt. Ltd	Udaipur	A			BOI from LOA approved sources				
		I				Sajas electrical	Trichurapalli (Tamilnadu)	A			BOI from LOA approved sources				
		I				Prammen	Pudukkottai (Tamilnadu)	A			BOI from LOA approved sources				
		I				Chemin C&I Pvt Limited	Puducherry	A			1- BOI from LOA approved sources 2.Fabrication at M/s LUFFT tech India 3- Painting at M/s Supreme Coater & Fabricator				
34	Master Slave Clock System														
		I				Signals and Systems Pvt. Ltd. (SANDS)	Chennai	A							
		I				Masibus	Gandhinagar	A							
		I				Sertel Electronics Pvt. Ltd.	Chennai	A							
		II				Hopf Elektronik GmbH	Germany	A							
		II				Hathway	USA	A							
		II				Mein Berg	Germany	A							
		II				Moser Baer AG	Switzerland	A							
35	Mercury Analyser														
		I				Analysar 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.PI 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 Verewa Umwelt Germany				
		III				Mercury Instruments GmbH	Germany	A							
		III				SICK AG	Germany	A							
		III				Thermofisher	USA	A							
36	PA System (IP Based)														
		III				BNA Technology Consulting Ltd.	Bengaluru	A			BOI shall be from LOA approved sources.				
		III				Armtel	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				

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36A	PA System (IP Based)/System Integrators	III				Commend International GMBH	Austria	A			note-7 For M/s Armtel Russia system				
		III				Willstrong Solutions Pvt. Ltd	Greater Noida	A			Approval conditions as per approval letter no Patratu-QA/9585-001-102/VA-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				Hartasa Checkmate Electronics Pvt Ltd	Bengaluru	A			For M/s Commend Austria make system				
		III				Netware Computer Pvt Ltd	New Delhi	A			For M/s Commend Austria make system				
37	PLC System	I				Emerson Automation solution Intelligent platforms Pvt Ltd	Bengaluru	A			PLC modules from M/s Emerson USA & BOI shall be from LOA approved sources				
		I				ABB India Ltd	Bengaluru	A			PLC modules from M/s Schneider France & BOI shall be from LOA approved sources				
		I				Schneider Electric system india Pvt Ltd	Chennai	A			PLC modules from M/s Honeywell S.Korea & BOI shall be from LOA approved sources				
		I				Rockwell	Sahibabad	A			PLC modules from M/s Schneider France & BOI shall be from LOA approved sources				
		I				Siemens	Nasik	A			PLC modules from M/s Honeywell S.Korea & BOI shall be from LOA approved sources				
		I				Honeywell	Pune	A			PLC modules from M/s Honeywell S.Korea & BOI shall be from LOA approved sources				
		I				Schneider Electric India Pvt Ltd	Bengaluru	A			PLC modules from M/s Schneider France & BOI shall be from LOA approved sources				
37-A	PLC System Integrators										Note-11 and note-7				
		I				Ladder Automation Solution Pvt Ltd	Gurugram	A			For M/s Honeywell make system				
		I				Virtual Automation	Ranga Reddy (Telangana)	A			For M/s Schneider make system				
		I				Cotmac Electronics Pvt Ltd	Pune	A			For M/s SIEMENS make system				
		I				Tech-Masters	Hyderabad	A			For M/s Emerson make system				
		I				Powertech Switchgear (I) Pvt Ltd	Sonepat	A			For M/s Schneider make system				
		I				Unity Industrial Automation Pvt Ltd	Delhi	A			For M/s Rockwell make system				
		I				EMCONS	Ranchi	A			For M/s Rockwell make system				
		I				Divya Engineers	Chennai	A			For M/s SIEMENS make system				
		I				M/D Industries	Vadodara	A			For M/s Emerson make system				
		I				Velox automation	Surat	A			For M/s SIEMENS make system				
		I				Vision Comple	Kolkata	A			For M/s Emerson make system				

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		I				Adaptive Engineering Private Limited	Ahmedabad	A			For M/s Schneider make system
		I				Greenwave Solutions Private Limited	Kolkata	A			For M/s Rockwell make system
		I				Dreamz Automation	Ghaziabad	A			For M/s SIEMENS make system
		I				Creative Robotics	Ghaziabad	A			For M/s Honeywell make system
		I				Kruti Techno Engineer Pvt Ltd	Chhapraula (GB Nagar	A			For M/s SIEMENS make system
		I				EDS Instruments & Systems Pvt Ltd	Chennai	A			For M/s Honeywell make system
		I				Delays Automation Technologies Pvt Ltd	Chennai	A			For M/s Emerson make system
		I				Hindustan Controls and Equipment Ltd	Kolkata	A			For M/s Emerson make system
		I				Volkraft Engineering And Consultant (P) Ltd	Kolkata	A			For M/s Emerson make system
		I				SSM Infotech Solutions Pvt Ltd	Surat	A			For M/s Schneider make system
		I				Sun Industrial Automation & Solutions	CHENNAI	A			For M/s Schneider make system
38	Pneumatic Actuator Regulating (Power Cylinder HAD,CAD SADC & Burner Tilt)										
		I				Instrumentation Limited	Palakkad (Kerala)	A			
		I				Kelton	Cochin (Alleppy)	A			
		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										
		III				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			
		III				Emerson Process Management	Singapore	A			Rosemount 3300 series for G/W Radar & 5600 Series for Non-Contact type
		III				Endress & Houser	Germany	A			
		III				Vega Grieshaber KG	Germany	A			
40	Short Term Fire Proof cable										
		III				nVent Solutions limited	UK	A			
		III				Wrexham Mineral	UK	A			
		III				KME	Italy	A			

PROJECT : Talcher-III (2X660MW) PACKAGE : EPC PACKAGES CONTRACTOR: CONTRACT NO :										LIST OF C&I ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL				REVISION NO : 00 DATE :04.02.2022	
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				
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				
42	Water Analyser (Chloride, Conductivity, Dissolved Oxygen,pH, Hydrazine, Concentration , Phosphate, Silica, Souldium,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				
		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				
43	Temp Transmitter														
43-A	Temp Transmitter														
		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				

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				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			
			III				Emerson	U.S.A/Singapore/Germany	A			Model No-B3HU-0
			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 Benilly, 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 BENILLY	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 2-Required mounting arrangement , Testing, Calibration shall be carried out at M/s EIP Works.
			III				E & H	Aurangabad	A			Complete Intransmit Transmitter & Probe to be procured from Mobrey UK , only integration & configuration at Pawane works
			III				Emerson Process Management Ltd	Pawane	A			
			III				BM Technology	Italy	A			
			III				Siemens Miltronics	Canada	A			
			III				Niveleo Process Control	Hungary	A			
			III				E & H	Germany	A			
			III				HAWK Measurement PTY Ltd	Australia	A			
47		UPS With ACDB										
			Note-5				Vertive Energy Pvt Ltd	Pune	A			Upto 125 KVA for 1 phase and 300 KVA for 3 Phase
			Note-5				Vertive Energy Pvt Ltd	Mumbai	A			Upto 160 KVA
			Note-5				Hittachi Hirel Power Electronics Pvt Ltd	Gandhinagar	A			Upto 160 KVA,

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
		Note-5				Fuji Electric Consul Neowatt Private Limited	Pune	A			Up to 100 KVA single phase
		Note-5				KELTRON	Trivendrum	A			
		Note-5				Merlin & Gerin	France	A			
		Note-5				Gutor	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, extension 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 (L.TTS)	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.
		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

PROJECT : Talcher-III (2X660MW) PACKAGE : EPC PACKAGES CONTRACTOR: CONTRACT NO :										LIST OF C&I ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL					REVISION NO : 00 DATE :04.02.2022	
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					
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			Material 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			Material 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					
		I				EIP Enviro	Noida	A			For 3D profiling / 1-Triple-IN Germany make Laser Scanner and RPU along with software from TSA Brazil 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					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	Anomia Analyser	III						Main Contractor Approved Sources
MC-2	Anomia Leak detector	III						Main Contractor Approved Sources
MC-3	Air Filter Regulator	III						Main Contractor Approved Sources
MC-4	Anemometer	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

Sr No		Item Description	QP Inspection Category	QP No	QP submiss ion at SCH	QP approval at SCH	Proposed Sub Supplier	Country	SS Approval Status (Note-1)	SS Detail Sub.SCH	SS Approval SCH	Remark
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					
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 / Gysenstat / 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		Mm 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/Vacuum/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					



PROJECT : Tatcher-III (2X660MW)
PACKAGE : EPC PACKAGES
CONTRACTOR:

CONTRACT NO :

LIST OF C&I ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER
APPROVAL

REVISION NO : 00
DATE :04.02.2022

Sr No	Item Description	QP Inspection Category	QP No	QP submiss ion at SCH	QP approv al SCH	Proposed Sub Supplier	Country	SS Approval_Status (Note-1)	SS Detail Sub.SCH	SS Approval SCH	Remark
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					
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 Bollard	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	CameraPoles	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					

		PROJECT : Tatcher-III (2X660MW)				LIST OF C&I ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL				REVISION NO : 00	
		PACKAGE : EPC PACKAGES								DATE :04.02.2022	
		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
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 support in 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					
LEGENDS :											
1.0 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 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.											
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											
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 INDEGENEOUSLY											
NOTE-8 : For the C & I instruments mounted on the skid of the main item or supplied as an integral part of the main item, instrument to be supplied as per proven practice of the manufacturer meeting the Customer technical specification											
NOTE-9: This item is a bought out component of main equipments like DDC/MIS, PLC, TSI, CCTV, 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.											

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S. N. क्र.सं.	Item / मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यू. पी. सं.	QP Sub. Sched ule क्यूपी उप.अ नुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
1.	GALVANISED STEEL STRUCTURES (LATTICE & PIPE) FOR SWITCHYARD AND TRANSMISSION LINE				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 TECHNOMECH	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		
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2.	COLOUR COATED METAL DECK & CLADDING/ROOFING SHEET (COIL)	I			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
					RICHARDSON & CRUDDAS (1972) LTD	NAGPUR	A		
					TATA STEEL BSL LIMITED	RAIGAD	A		
					TATA STEEL BSL LIMITED	SAHIBABAD	A		
					TATA BLUESCOPE STEEL LTD	JAMSHEDPUR	A		AL-ZN COIL FOR CLADDING
					ESSAR STEEL LTD	PUNE	A		
					NATIONAL STEEL & AGRO INDUSTRIES LTD	DHAR	A		
					JSW STEEL COATED PRODUCTS LTD	KALMESHVAR (NAGPUR)	A		
					JSW LTD	THANE	A		
					BHUSHAN POWER & STEEL LTD	SAMBALPUR (ODISHA)	A		
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3.	CHIMNEY ELEVATOR (RACK AND PINION)	I			MEKASTER ENGG. & EQUIPMENT (P) LTD.	HALOL, GUJARAT	A				
					ALIKRAFT ENGINEERS PVT. LTD.	SAVIL (VADODARA)	A				
					AVON CRANES	GURGAON	A				
					UNIVERSAL CONSTRUCTION MACHINARY & EQUIPMENT LTD.	PUNE	A				
4.	HDPE LINER (GEOMEMBRANE)	I			MAIN CONTRACTOR APPROVED SOURCE	-	-				
5.	ELECTROFORGED GRATING	II			INDIANA GRATINGS PVT. LTD	PUNE	A				
					KANADE ANAND UDYOG	THANE	A				
					PREMIER POWER PRODUCTS LTD	HOWRAH	A				
					BHOLA RAM STEEL PVT. LTD	PATNA	A				
					PINAX STEEL INDUSTRIES PVT LTD	PATNA	A				
					GREATWELD STEEL GRATING PVT. LTD	PUNE	A				
					ANKIT ELECTROGRATING	RAIPUR	A				
				SUTTATTI ENTERPRISES LTD.	PUNE	A					
				VINFAB ENGINEERS INDIA PVT LTD. (For Galvanising) VINFAB GRATINGS (For Fabrication)	THANE	A					

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6.	PROFILERS FOR COLOUR COATED METAL DECK & CLADDING/ROOFING SHEETS	II			MAIN CONTRACTOR APPROVED SOURCE	-		-		
7.	FABRIC EXPANSION COMPENSATOR (FOR CHIMNEY)	II			MAIN CONTRACTOR APPROVED SOURCE	-		-		
8.	MINERAL WOOL FOR THERMAL INSULATION (FOR CHIMNEY)	II			MAIN CONTRACTOR APPROVED SOURCE	-		-		
9.	STOP LOG GATES, TRASH RACK AND LIFTING BEAM	II			MAIN CONTRACTOR APPROVED SOURCE	-		-		
10.	REINFORCEMENT STEEL	III			STEEL AUTHORITY OF INDIA LTD. (SAIL)			A		
					JINDAL STEEL & POWER Ltd. (JSPL)			A		
					TATA STEEL LIMITED.			A		
					RASHTRIYA ISPAT NIGAM LTD. (RINL)	VISAKHAPATNAM		A		
					JSW STEEL LTD.	RAIGAD, MAHARASHTRA; BELLARY		A		
11.	HIGH PERFORMANCE MOISTURE COMPATIBLE CORROSION RESISTANT COATING SYSTEM	III			ESL STEEL LTD.	BOKARO		A		
					JSW ISPAT SPECIAL PRODUCTS LTD.	RAIGARH, CHHATTISGARH		A		
					CECRI LICENSED SOURCES	-		-		
12.	BITUMEN	III			ALL GOVERNMENT REFINIARIES	-		-		
13.	PTFE BEARING / ELASTOMERIC BEARING	III			MORTH / RDSO APPROVED VENDORS	-		-		
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14.	CEMENT	III			BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-
15.	CI PIPES	III			BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-
16.	RCC PIPES	III			BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-
17.	CPVC/UPVC PIPES	III			BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-
18.	PVC WATER STOP	III			BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-
19.	POLYTHENE WATER STORAGE TANKS	III			BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-
20.	CERAMIC / VITRIFIED TILES	III			BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-
21.	PARTICLE BOARDS, PLYWOOD, MDF	III			BIS APPROVED SOURCES HAVING VALID BIS LICENCE	-	-
22.	FIRE PROOF DOORS	III			MAIN CONTRACTOR APPROVED SOURCES WITH VALID PROTOTYPE TEST REPORT FROM CBRI/CPRI/GOV. LAB.)	-	-
23.	CONSTRUCTION CHEMICALS/ADMIXTURE, WATER PROOFING COMPOUNDS AND GROUTS	III			MAIN CONTRACTOR APPROVED SOURCE	-	-
24.	PAINT AND PAINTING SYSTEM	III			MAIN CONTRACTOR APPROVED SOURCE	-	-
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25.	HIGH SOLID CONTENT LIQUID APPLIED URETHANE BASED ELASTOMERIC MEMBRANE FOR WATER PROOFING	III		MAIN CONTRACTOR APPROVED SOURCE	-	-	
26.	INSTRUMENTATIONS (Porous Tube Piezometer, Surface settlement point, Water level sounder etc.) FOR ASH DYKE	III		MAIN CONTRACTOR APPROVED SOURCE	-	-	
27.	PRE-ENGINEERED BUILDINGS	III		MAIN CONTRACTOR APPROVED SOURCE	-	-	
28.	FOUNDATION BOLTS	III		MAIN CONTRACTOR APPROVED SOURCE	-	-	

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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: 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.

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 मदों 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 मदों की समीक्षा के लिए "विस्तृत ब्यौरे 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 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 / 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 मदों 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/works/बहु- इकाईयाँ/ कार्यों के मुख्य सप्लायर का स्थान.

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