

	Project/परियोजना : Lasa II (2X800MW)				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्थायित्वीय प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: ELECTRICAL				Doc. No./दस्तावेज सं.: REVISION NO : 00 DATE/तिथि : 08.06.2022	
	Package/ पैकेज : EPC PACKAGE									
	Supplier/ आपूर्तिकर्ता:									
	Contract No./ अनुबंध सं.:									
S. N. क्र.सं.	Item / मद	QP/ Insp. Cell/ कक्षी/ निरी. श्रेणी.	QP No./ कक्षी. सं.	QP Sub- Schedule कक्षी उप-अनुसूचि	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 प्रस्तुतिकरण की सूची	Remarks/ टिप्पणी	
NOTE	1. CHECKS FOR STATOR CORE ASS'LY, STATOR WINDING ASSEMBLY, ROTOR WINDING ASSEMBLY (GEN), GENERATOR ROTOR MINAL BEARING ASSEMBLY/SHAFT SEAL ASSEMBLY, EXCITER ASS'LY (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.									

एनपीसी NTPC		Project/परियोजना : Lax II (2X800MW) Package/ पैकेज : EPC PACKAGE Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL. क्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: ELECTRICAL								Doc. No./दस्तावेज सं.: REVISION NO.: 00 DATE/ तिथि : 08.06.2022	
S. N. क्र.सं.	Item/ मद	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- आपूर्तिक ता के विवरण प्रस्तुतीक रण 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 Densified 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	OTT/WTI (RTD Type)	III											
MC 14	Off-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 chase 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											

		Project/परियोजना : Lax II (2X800MW) Package/ पैकेज : EPC PACKAGE Supplier/ आपूर्तिकर्ता : Contract No./ अनुबंध सं. :					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्थापिती प्लान तथा सब-सप्लायर के अनुमोदन सहित मही की सूची SUB-SYSTEM उप-प्रणाली: ELECTRICAL			Doc. No./ दस्तावेज सं. REVISION NO : 00 DATE/ तिथि : 08.06.2022	
		S. N. क्र.सं	Item / मद	QI/ Insp. Cat. क्यूरी/ निरी. श्रेणी.	QI No./ क्यूरी सं.	QP Sub. Schedule क्यूरी उप-अनुसूचि	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 प्रसूची	Remarks/ टिप्पणी
		MC 32	Valves (for Radiator/Gun Metal/CI valves,etc.)	III							
		MC 33	Gas Collecting Device	III							
		MC 34	Networking of Numerical Relay	*(with Switchgear MQP)							
		MC 35	Paint	III							
		MC 36	Copper for Copper Plais & 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	DETURBANCE 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	BELT WEIGHER	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							

परमेश्वरी सीसी NTPC Project/परियोजना : Lata II (2X800MW) Package/ पैकेज : EPC PACKAGE Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.: Doc. No./ दस्तावेज सं.: REVISION NO: 100 DATE/ तिथि : 08.06.2022											
S. N. क्र.सं.	Item/ मद	QP/ Insp. Cat. सूची/ निरी. श्रेणी.	QP No./ सूची सं.	QP Sub. Schedule सूची उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ उप आपूर्तिक विवरण प्रसूचीक रण की सूची	Remarks/ टिप्पणी		
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	BUCHHOLZ RELAY	CAT III									
11	ON LOAD TAP CHANGER	CAT III									
12	OFAP 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									
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	I2 LIST OF SWITCH GEAR										SOURCES FOR THESE ITEMS SHALL BE FINALIZED DURING DETAILED ENGINEERING AND MQP FINALIZATION
1	Numerical Relays	CAT I									SUB-QR CLEARED VENDORS ARE ACCEPTABLE FOR NUMERICAL RELAYS
2	Silver Plating	CAT III									
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									

		Project/परियोजना : Lax II (2X800MW) Package/ पैकेज : EPC PACKAGE Supplier/ आपूर्तिकर्ता : Contract No./ अनुबंध सं. :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL प्रवालेटी प्लान तथा सब-सप्लायर के अनुमोदन सहित माल की सूची SUB-SYSTEM उप-प्रणाली: ELECTRICAL		Doc. No./ दस्तावेज सं. : REVISION NO : 00 DATE/ तिथि : 08.06.2022	
S. No. क्र.सं.	Item / माल	QP/ Insp. Cat. क्रम/ निरी. श्रेणी.	QP No./ क्रम. सं.	QP Sub. Schedule क्रम. उप. अनुसूचि	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
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 : BCI shall be reviewed and finalised during MQP approval for items/ systems where ever applicable.									

				Project/प्रियोजना: Lata II (2X800MW) Package/ पैकेज: EPC PACKAGE Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL स्थापित प्लान तथा सब-सप्लर के अनुमोदन सहित मदों की सूची SUB-SYSTEM उप-प्रणाली: ELECTRICAL		Doc. No./ दस्तावेज सं.: REVISION NO: 00 DATE/ तिथि : 08.06.2022	
S. No. क्र.सं.	Item/ मद	QP/ Insp. Cat. स्वामी/ निरी. कर्मी.	QP No./ स्वामी. सं.	QP Sub. Schedule स्वामी उप-अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप-आपूर्तिकर्ता	Place/ स्थान	Sub-supplier approval status/ sub sch/ category उप-आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details sub sch/ category उप-आपूर्तिकर्ता के विवरण प्रस्तुती रण की सूची	Remarks/ टिप्पणी
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:									
i) 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".									
ii) 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".									
iii) 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	7. M/s National Galvanizer, Kolkata	13. M/s Curpest Galvanizer, Hyderabad	19. Unitech Fabricators & Galvanizers- Hoshiy						
2. M/s A.V. Engg. Kolkata	8. M/s Unistar Galvanizer, Kolkata	14. M/s Sigma, Mumbai							
3. M/s Inor Profiles, Vishakhapatnam	9. M/s B.P. Project, Kolkata	15. M/s Rishabhshwan Shetty, Chennai							
4. M/s Anand Udyog, Mumbai	10. M/s Baji Pune	16. Karamtara Mumbai							
5. M/s Techo Engg. Chandigarh	11. M/s Electrocure Industries, Mumbai	17. Poona Galvanizers Pune							
6. M/S Shwetha Engg. Mumbai	12. M/s B.C. Shurko, Pune	18. Neta Galvanizer- Kolkata							

				Project/परियोजना: Lata II (2X800MW) Package/ पैकेज: EPC PACKAGE Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं:				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब-सप्लायर के अनुमोदन सहित मॉड की सूची SUB-SYSTEM उप-प्रणाली: ELECTRICAL				Doc. No./ दस्तावेज सं.: REVISION NO: 00 DATE/ तिथि : 08.06.2022	
S. N. क्र.सं	Item / मॉड	QP/ Insp. Cat. स्क्वी/ निरी. श्रेणी.	QP No./ स्क्वी. सं.	QP Sub. Schedule स्क्वी 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 की विवरण प्रस्तुतीक रण 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/प्रणाली आपूर्तिकर्ता/सब-सप्लायर 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 conditions of approval as per NTPC review. To be identified with letter 'DR' in the list एनटीपीसी द्वारा इन मॉड की समीक्षा के लिए विद्युत और की अवस्था बनाई। सूची में 'DR' पर भरी स्वीकृति प्राप्त होगी। 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 मॉड के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है और एनटीपीसी द्वारा अंतिम स्वीकृति भौतिक निरीक्षण के दौरान उपलब्ध कराए 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 of Certificate of Conformance (COC) by Main Contractor. 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 इकाई/ कार्य: Place of manufacturing/निर्माण का स्थान Place of Main Supplier of multi only/बहु-इकाई/ कार्य के मुख्य सप्लायर का स्थान. : Control measure of item covered in quality plan of main item.													

PROJECT : Lara-II (2X800MW) PACKAGE : EPC PACKAGES CONTRACTOR : CONTRACT NO :										LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL				REVISION NO : 00 DATE :07.06.2022 SUB SECTION: C&I	
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-I)	SS Detail Sub.SCH	SS Approval SCH	Remark				
1	AAQMS System	I				ACOEM Ecotech Industries Pvt Ltd	Pithampur	A			1. So2 ,Nox,CO,CO2 ,Ozone ,PM<10,PM<2.5 & multipoint calibrator will be from Ecotech Australia 2. Metrological sensor from Dynalab 3. Mercury analyser from LOA agreed sources 4. PI refer Note-07				
		I				Horiba India Pvt Ltd	Pune	A			1. So2 ,Nox,CO,CO2 ,Ozone & multipoint calibrator will be from Horiba Japan 2. PM<10,PM<2.5 ,TSP will be from Met One USA & metrological sensor from Spectrum USA 3. Mercury analyser from LOA agreed sources				
		I				Environment SA India Pvt. Ltd.	Mumbai	A			1. Analysers SO2, Nox, CO2 & SPM from Environment SA France, 2- Multipoint Calibrator From environment SA France 3- Metrological Sensor with interface unit from M/s LSI Lastem SRL, Italy				
		I				Thermo Fisher Scientific India Pvt. Ltd	Mumbai	A			1) Analysers (Sox, Nox, CO, SPM, RSPM , Ozone) , multi gas calibrator shall be sourced from their principle Thermo Environmental , USA (Division of M/S Thermo fisher Scientific , USA) 2) Metrological sensors shall be sourced from M/S Metone Instruments USA				
		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 (Pizeo/Microphone with prelab 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 MIQP. 3. PI refer Note-07				

PROJECT : Lara-II (2X800MW) PACKAGE : EPC PACKAGES CONTRACTOR : CONTRACT NO :							LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL				REVISION NO : 00 DATE :07.06.2022 SUB SECTION: C&I	
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-I)	SS Detail Sub SCH	SS Approval SCH	Remark	
		I				Hi-Tech Systems & Services Ltd (As a system Integrator of M/S Bonnenberg + Dresscher GmbH, Germany)	Kolkata	A			1.All critical components are to be procured from M/S Bonnenberg + Dresscher 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 tieup in MQP. 3.PI refer Note-07	
		II				Bonnenberg + Dresscher GmbH,	Germany	A				
		II				STOCK Equipment Co	USA	A				
3	Addressable Detector (Multisensor , Photo & Heat Detectors Type), Interface units & Manual call points											
		II				Honeywell Life Safety-HIPL	Gurgaon	A			Notifier Brand (Detector, Interface Module only)	
		II				Schrack	Austria	A				
		II				Autronica	Norway	A				
		II				Edwards	Mexico	A				
		II				Notifier	USA	A				
		II				Shield Fire safety	UK	A				
		II				Jhonsen Controls	USA	A			Simplex Brand	
4	Battery for 24VDC charger & UPS											
		Note-4				Hoppecke Batterien GmbH & Co Kg	Germany	A			For Lead Acid- Plante	
		Note-4				Exide	Kolkata	A			For Lead Acid- Plante	
		Note-4				SAFT India Ltd	Bengaluru	A			For Ni-Cd	
		Note-4				HBL Power	Hyderabad	A			For Ni-Cd ,Upto 990AH (H type)	
		Note-4				SAFT	France/Sweeden	A			For Ni-Cd	
		Note-4				Hoppecke Batterien GmbH & Co Kg	Germany	A			For Ni-Cd	
5	Blank Panels / Cabinets											
		III				Pyrotech Electronics Pvt. Ltd	Udaipur	A				
		III				Rittal India Private Ltd	Bengaluru	A				
		III				Hoffman	Bengaluru	A				
		III				BHEL	Bengaluru	A				
6	Boiler tube leak detection system (ASLD)											
		III				Hi Tech System & services Ltd (System Integrator of Acoustic Monitoring International Inc. USA)	Kolkata	A			1.M/S Acoustic Monitoring International Inc. USA Make system Conditional as per approval letter 01/CQA/9573-102/Hi-Tech-AMI dated 11.04.2013 2.PI refer Note-07	
		III				Raman Instruments (System Integrator of M/S Procon UK)	Delhi	A			1.M/S Procon UK. Make system 2.PI refer Note-07	
		III				BHEL Ltd	Trichurapalli	A				
		III				Instrotech (PTY) Ltd	South Africa	A				

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		III			Rectuson Co. Ltd	S.Korea	A			
		III			Procon Engineering	UK	A			
		III			Acoustic Monitoring International Inc. (AMI)	USA	A			
7	CCTV System (IP Based)									
		III			Axis	Sweden	A			1.CCTV components will be of Axis communication AB.Sweden make & Video Management Software will be of Milestone Brand 2.Other BOI items shall be from LOA approved sources & will be tied up during the finalization MQP.
		III			Bosch	Bengaluru	A			1.CCTV components will be of M/S Bosch make. and supplied through M/s Bosch. Bengaluru. 2.Other BOI items shall be from LOA approved sources & will be tied up during the finalization MQP.
		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			Toshuwal Industrial Pvt Ltd	Ajmer	A			M/S Axis Make CCTV system
		I			L&T TECHNOLOGY SERV/CES	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.Extended 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 Furni Bengaluru
9	Control Valves									

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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	Almadedabad	A			Up to A182F92 material with conditions as per approval letter
		I			KSB MIL Controls Ltd	Thrissur (Kerala)	A			As per approval Ref: 02/CQA/SG/Tanda/MIL Dated 30.09.2015
		I			Control Component India PVT Ltd	Stricity (Andhra Pradesh)	A			1.MQP shall be vetted by M/S CCI-USA 2.Sources of major components like casting /forging and actuators shall be tied up during finalization of MQP
		II			Parcol SPA	Italy	A			
		II			Daume	Germany	A			
		II			HOLTER	Germany	A			
9-B	Control Valve for Start Up System									
		I			Control Component India PVT Ltd	Stricity (Andhra Pradesh)	A			1.The critical components of control valve i.e. Disk Stack (Drag technology) shall be sourced from CCI, USA/CCI S. Korea . 2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea 3.Control valve to be manufactured as per CCI USA design & drawing.
		I			KOSO India Pvt Ltd	Nasik	A			
		I			Emerson Process Management Ltd	Chennai	A			
		II			Dresser Produits industriels Industriels S.A.S	France	A			
		II			SEMPPELL 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	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			KSB MIL Controls Ltd	Thrissur (Kerala)	A			Up to 10 Inches & 3400 ANSI class

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				II			Dresser Produits industriels S.A.S	France	A			
				II			Nihon Koso Co Ltd	Japan	A			
				II			CCI	USA	A			
				II			Emerson (Fisher)	USA/France/Japan	A			
9-D	Control valve for feedwater flow Control						Instrumentation Limited	Palkkad	A			12" inch 3200 class
				I								1.The critical components of control valve i.e. Disk Stack (Drag technology) shall be sourced from CCI, USA/CCI S. Korea .
				I			Control Component India PVT Ltd	Sricity (Andhra Pradesh)	A			2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea
				I			KOSO India Pvt Ltd	Nasik	A			3.Control valve to be manufactured as per CCI USA design & drawing.
				I			Emerson Process Management Ltd	Chennai	A			Control valve body assembly will be from Nippon Fisher Japan with IBR form III C certificates .
				I			KSB MIL Controls Ltd	Thrissur (Kerala)	A			1.Provision of straight type of brackets for linkage mechanism . 2.Factory fitted strainer /diffuser type seat ring . 3.AFR with T connector for pneumatic connection to volume booster
				II			Dresser Produits industriels S.A.S	France	A			
				II			Nihon Koso Co Ltd	Japan	A			CONDITIONAL
				II			CCI	USA / Austria / S.Korea / Switzerland	A			
				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	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 .
				I			KOSO India Pvt Ltd	Nasik	A			2.The positioner from NTPC approved sources & pneumatic actuators are sourced from CCI S.Korea
				I			Emerson Process Management Ltd	Chennai	A			3.Control valve to be manufactured as per CCI USA design & drawing.
				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			

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		I			Instrumentation Limited	Palakkad (Kerala)	A			only for SH / RH					
		II			Nihon Koso Co Ltd	Japan	A								
		II			Dressor Masonellan	USA	A			only for SH / RH/ up to 2500 class					
		II			Dresser Produits industriels	France	A								
		II			Industriels S.A.S	USA	A			only for SH / RH					
		II			SPX Flow Technology	USA	A			only for SH / RH					
		II			Leslie Controls Inc	Germany	A			only for SH / RH					
		II			Sempell AG (Tyco group)	USA/Sweden /S.Korea	A								
		II			CCI	USA/France /Japan	A								
		II			Emerson (Fisher)										
		II													
9-F	Control valve(Other application)														
		I			Mascon 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					
		+			KOSO India Pvt Ltd	Nasik	+								
		I			KSB MIL Controls Ltd	Thirissur (Kerala)	A			Up to 2500 ANSI class					
		I			Emerson Process Management Ltd	Chennai	A			Up to 2500 ANSI class					
		I			GE Oil & Gas India Pvt Ltd	Coimbatore	A			Up to size 10 inches & 900 ANSI class /Up to size 24 inches & 600 ANSI class					
		I			Flow Serve India Controls Pvt Ltd	Bengaluru	A			Up to size 14 inches & 600 ANSI class					
		I			Forbes Marshall Arca 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					
		I			Circor Flow	Coimbatore	A								
		II			CCI	USA/Sweden /S.Korea	A								
		II			Nihon Koso Co Ltd	Japan	A								
		II			Emerson (Fisher)	USA/France /Japan	A								
		II			Leslie Controls Inc	USA	A								
		II			PARCOL S.P.A	Italy	A								
		II			Dresser Produits industriels	France	A								
		II			Industriels S.A.S		A								
		II			HORA	Germany	A								
		II			Wellend & Tuxhorn	Germany	A								
		II			SPX Flow Technology	USA	A								
		II			Sempell AG (Tyco group)	Germany	A								
9-G	Control Valve (Ceramic lined)														
		I			Samson Controls Pvt Ltd	Pune	A			1. For M/S Samson Cera Germany make valve Up to 10 inches size & 150 ANSI class 2. BOI shall be tied up at the time of finalisation of MQP					
10	DDCMIS														
		I			ABB	Germany	A								
		I			SIEMENS AG	Germany	A								
		I			Emerson Process Management Asia Pacific Pvt Ltd	Singapore	A								

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				I			Hitachi nest control system Pvt Ltd	Bengaluru	A			
				I			Honeywell Automation India Ltd	Pune	A			
				I			GE	France	A			
				I			SIEMENS	Gurgaon	A			
				I			BHEL	Bengaluru	A			
				I			Yokogawa	Bengaluru	A			For MAX DNA System
				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			Durg 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 BARIH STTP-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 BARIH /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 BARIH /E-335 / M/S Environment SA India Pvt Ltd Dated 16.09.2019
				III			Land Instruments International	UK	A			For In Situ type /Optical Transceiver type
				III			Codel	UK	A			For In Situ type /Optical Transceiver type
				III			Durg Industrie Elektronik GmbH & Co KG	Germany	A			For In Situ type /Optical Transceiver type & Extractive Type
				III			Emerson Process Management	Ireland	A			For In Situ type /Optical Transceiver type
				III			SICK AG	Germany	A			For In Situ type /Optical Transceiver type & Extractive Type
				III			ENEVA	UK	A			For Extractive Type Dust density analyser
12			Electrical Actuators									
12-A			Electrical Actuator (With gear box if applicable)									
				II			Antrieb Technik Pvt Ltd	Chennai	A			For low torque applications only
				II			Auma	Bengaluru	A			
				II			Limitorque	Faridabad	A			Model no L120,SNB.LY series, Gear Box T, HBC Series
				II			Rotork	Bengaluru	A			For low torque app (Up to 1000 Nm)

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		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					
		III			Auma	Germany	A								
		III			Limitorque	USA	A								
		III			Rotork	UK	A			For low torque app (Up to 1000 Nm)					
		III			Nippon gear	Japan	A								
		III			Drehmo GMBH	Germany	A			C Matie 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					
		I			Rotork Control	Chennai	A			upto 630 Nm					
		III			Flowserve	USA	A			Also acceptable for Field Bus based applicable					
		III			Bernard Controls	France	A								
12-C	Electrical actuator for ID/ID/PA Blade pitch ,IGV &SCOOP														
		III			Harold Beck & Sons Inc	USA	A								
		III			SIPOS Aktorik 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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		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 Tr/Os, 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 Acquisition System will be procured from Knowledge Lens, Karnataka.					
15	Fiber optic cable														
		Note-3			U M Cables Ltd	Silvassa (Daman)	A								
		Note-3			KEC International Ltd	Mysore	A								
		Note-3			Apur Industries Limited	Valsad (Gujrat)	A								
		Note-3			HFCL	Goa	A								
		Note-3			Aksh Fibre	Bhiwadi (Raj)	A								
		Note-3			Finolex Cable Ltd	Goa	A								
		Note-3			Birla Cable Limited	Rewa	A								
		Note-3			R&M	Switzerland	A								
		Note-3			Molex	UK	A								
		Note-3			Corning	USA	A								
16	Fire alarm Panel									1.M/S Notifier Make Fire alarm Panel 2.PI Refer Note-07					
		II			Toshniwal Industrial Pvt Ltd	Ajmer	A								
		II			Bosch Security system	Bengaluru	A			1.Detector , Hooter, MCP, Modules, Panel shall be M/s Bosch Make					
		II			Notifier	USA	A								
		II			Autronica	Norway	A								
		II			Schrack	Austria	A								
		II			Edwards	Mexico	A								
		II			Shield Fire safety and security Ltd	UK	A								
		II			Jhonsen Controls	USA	A			Simplex Brand					
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			Durg India Instrumentation Pvt Ltd	Bengaluru	A			For Durg Germany make system	
		II			Forney Corporation	USA	A				
		II			BFI	Germany	A				
		II			Durg GmbH	Germany	A				
		II			Emerson (COEN)	USA	A				
		II			BHEL	Trichurapalli	A				
		III			Maxon Corporation (A Honeywell Company)	USA	A			Approved for Aux Boiler	
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	
										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			ICE (Asia) Pvt Ltd	Mumbai	A			3.PI refer Note-7	
		III								For In Situ Type / CO analyser from SICK AG & Other components like ,Protection tube ,Flanges ,tubing ,fittings ,junction boxes, solenoid valves & calibration cylinders will be supplied by M/S Sick India Pvt Ltd .	
		III			Emerson Process Management Ltd	Pawane	A			For M/S Emerson Germany/ USA make Analyser	
		III			Codel	UK	A				
		III			Land Instruments International	UK	A				
		III			Sick AG	Germany	A			For In Situ Type	
		III			Envoirement SA	France	A			For Hot Extractive	
		III			Fuji Electric	Japan	A				
		III			Servo max Group	UK	A				
		III			Siemens	Germany	A				

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20	Flue Gas Analyser (CO2,SO2 and Nox)	III			Sick India Pvt Ltd	Mumbai	A			For In Situ Type, SO2 analyser 1. Analyser will be from Sick AG Germany 2. Other components like ,Whether proof covers ,flanges ,purge air unit ,junction boxes ,cables ,PC ,remote display ,gas cylinders shall be supplied by M/s Sick India Pvt Ltd
		III			Emerson Process Management Ltd	Pawane	A			For M/s Emerson Germany/ USA make Hot Extractive SO2, NOx Analyser
		III			Envoirement 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
					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 - COA/NTPC Manda-II / H-521 / M/S Horiba India Pvt Ltd Dated 03.10.2019	
		I			Yokogawa India Ltd	Bengaluru	A			1. SO2,NOx & CO2 Analyser will be from M/S Yokogawa Electric Corporation Japan . 2.Other Conditional as per approval letter no Ref. No.-CQA/BARH-I / Y-023/ M/s Yokogawa India Ltd dated 21.05.2020	
		I			Adage Automation Pvt Ltd.	Goa	A			For M/s Siemens Germany make SO2,NOx & CO2 Analysers	
										Approved only for Dilution Extractive Technique 1)Analyser (SO2,NOx,CO,CO2,Mercury), sampling probe ,sample handling system ,umbilical cord etc to be supplied from M/s Thermo Fisher USA . 2) Other BOI shall be as per LOA approved sources	
		I			Emerson Process Management India Pvt Ltd	Pawane	A			For M/s Emerson Germany make SO2,NOx & CO2 Analysers other conditions as per approval letter.	
		I			Analysar Instruments Co Pvt Ltd	Kota	A			Analysers from Fuji Japan & other BOI shall be as per LOA approved sources .	
		I			Environnement SA India Pvt Ltd	Navi Mumbai	A			Hot Extractive Type / 1.Multipoint gas Analyzers MIR-9000 for SO2, NOx,CO2 & CO ,Probe ,Nafyon drier & heater for drier will be of M/S Environnement SA France make. 2. Other components shall be as per the approval letter ref no COA/NTPC Telangana/I-335/M/S/Environnement SA India dated 12.02.2019	
24	Furnace Flame viewing system (High Temperature CCTV Components)										
		III			Serrel 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 refre Note-07	
		III			Toshinival Industries (System Integrator of M/S Mirion UK make system)	Ajmer	A			1. M/S Mirion UK make system 2.PI refer Note-07	
		III			Diamond Power	USA / Sweden	A				

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		III			Durag GmbH	Germany	A			D-VTA-201
		III			Lenox	USA	A			
		III			Mitron	UK	A			
		III			Piper GmbH	Germany	A			
		III			Sabota GmbH	Germany	A			
25	H2 Gas Analyser									
		I			ABB India Ltd	Bengaluru	A			M/s ABB Germany /UK. Make analyser
		I			Adage Automation Pvt. Ltd	Groa	A			1.M/s Siemens, Germany (Calomat 6) Make analyser 2. PI refer Note-07
		I			Yokogawa India Ltd	Bengaluru	A			M/s Yokogawa Japan (Gas Density based) Make analyser
		I			SIEMENS	Gurugram	A			M/s Siemens, Germany (Calomat 6) Make analyser
		III			GE Sensing EMEA	Ireland	A			Conductivity based
		III			ABB	UK	A			
		III			Emerson (Rosemount)	USA	A			
		III			Environment One Corporation	USA	A			Conductivity based
26	HEA Ignitor									
		I			Durag India Instrumentation Pvt Ltd	Bengaluru	A			M/S Durag Germany make HEA Ignitor
		I			Hindustan Thermometers	Anbala	A			Conditional as per approval ref no 01/COA/0270-102 dated 17.09.2012. Spark tip of their own make is also acceptable
		I			Fives combustion System Pvt Ltd	Vadodara	A			
		I			Boiler control Pvt Ltd	Pudukottai (Tamilnadu)	A			Approved for Aux Boiler package only
		III			Unison Industries	USA	A			
		III			Durag GmbH	Germany	A			
		III			Ignition system INC	USA	A			
		III			Tesi SPA	Italy	A			
27	High Temp. cable (PTFE/FEP)									
		II			Thermocables	Hyderabad	A			
		II			Tempsons	Udaipur	A			
		II			Habia cables	Sweden	A			
		II			Thermo Electrica BV	Netherland	A			
		II			Lapp cables	Germany	A			
		II			Kerpen cables	Germany	A			
		II			TEW & C	USA	A			
28	Impulse Pipes/Tubes									
		II			Maharashtra Seamless	Raigarh	A			For CS Pipes only
		II			Ratnamani Metals and Tubes	Gandhinagar	A			For SS only.
		II			Heavy Metals and Tubes	Gandhinagar	A			For SS & CS only.
		II			ISMT	Ahmadnagar	A			For CS/ AS upto Gr 22 Pipes only
		II			Nippon Steel & Sumitomo Metals corporation	Japan	A			
		II			TPS Tecnitube	Germany	A			
		II			Veluric & Manessmann	Germany	A			
		II			Trouvay and Cauvin	France	A			
		II			Sandvik	Sweden	A			For SS only

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		II				Reni Edelsahl	Palghar	A					
29	Instrument Cables (F.G & T/C Cables)	Note-2				Goyolene Fibers (India) Pvt Ltd	Silvassa	A			F&G Type Cable		
		Note-2				Tensens Instruments Ind Pvt Ltd	Udaipur	A					
		Note-2				Havells India	Alwar	A			F Type Cable		
		Note-2				Paramount Communication Ltd	Khushkhera	A					
		Note-2				Polycab	Daman	A					
		Note-2				Delton	Faridabad	A					
		Note-2				KEI	Bhiwadi (Raj)	A					
		Note-2				Elkey Telelinks	Faridabad	A					
		Note-2				CORDS	Kaharani	A					
		Note-2				CORDS	Bhiwadi	A					
		Note-2				Nico	Kolkata	A					
		Note-2				Universal Cable	Sama	A					
		Note-2				Thermocables	Hyderabad /Mahaboonagar	A					
		Note-2				Gupta Power Infrastructure Ltd.	Khurda	A					
		Note-2				CMI	Faridabad	A					
		Note-2				Advance Cables Pvt Ltd	Bengaluru	A			F&G Type Cable		
		Note-2				Genscab Industries Ltd	Bhiwadi (Raj)	A			F&G Type Cable		
		Note-2				Apar Industries Limited	Valsad	A			F&G Type Cable		
		Note-2				Suyog Electricals Ltd	Halol (Gujrat)	A					
		Note-2				Special Cables Pvt Ltd	Rudrapur	A					
		Note-2				T C Communication	Ghaziabad	A					
		Note-2				TEW & C	USA	A					
		Note-2				Habia cables	Sweden	A					
		Note-2				Kerpen cables	Germany	A					
		Note-2				Lapp cables	Germany	A					
		Note-2				Thermo electra Bv	Netherland	A					
30	Intelligent Battery charger 24V DC / DCDB/BHMS	II				Chabbi Electricals	Jalgaon	A			Rectifier module, Controller module and Battery Health monitoring system shall be of M/s Vertiv make		
		II				Eletek SGS Pvt Ltd	Gurugram	A					
31	Large Video Screen (LED Based)	I				Pyrotech Electronics Pvt Ltd	Udaipur	A					
		I				Delta India Electronics Pvt Ltd	Gurugram	A					
		I				Barco Electronics system (P) Ltd	Noida	A					
		I				Planner System Inc	USA	A					
32	Level switch- Conductivity type	II				Raman Instruments (System Integrator of Delta Morbey/ Emerson Mobrey /Solarrion -Mobrey)	Delhi	A			1.M/S Emerson (Morbey) UK system 2.PI refer Note-07		
		II				HI Tech System & services Ltd (System Integrator of Levelstate systems Ltd ,UK)	Kolkata	A			1. M/S Levelstate UK System Vessel from M/s Hi Tech 2.PI refer Note-07		
		II				BHEL	Trichurapalli	A					

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		III				Emerson -Mobrey (Solatron mobrey)	UK	A							
		III				Levelstate Systems Ltd	UK	A							
		III				Yarway	USA	A							
33	Local Instrument Enclosure/Rack	I				Pyrotech Electronics Pvt. Ltd	Udaipur	A			BOI from LOA approved sources				
		I				Sajas electrical	Trichurapalli (Tamilnadu)	A			BOI from LOA approved sources				
		I				Prammen	Puddukottai (Tamilnadu)	A			BOI from LOA approved sources				
		I				Chemun 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				Analysier 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				Durag India Instrumentation Pvt Ltd	Bengaluru	A			Analysier from M/s Verewa Umwelt Germany				
		III				Mercury Instruments GmbH	Germany	A							
		III				SICK AG	Germany	A							
		III				Thermofisher	USA	A							
		III				Lumax	Russia	A			For AAQMS System				
36	PA System (IP Based)	III				BNA Technology Consulting Ltd.	Bengaluru	A			BOI shall be from LOA approved sources.				
		III				Armteel	Russia	A							

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			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
	36A	PA System (IP Based)/System Integrators	III				Commend International GMBH	Austria	A			note-7 For M/s Amtel Russia system
			III				Willstrong Solutions Pvt. Ltd	Greater Noida	A			Approval conditions as per approval letter no. Patnau-QA/9585-001-102/V/A-Willstrong Dated: 21.12.20
			III				Toshniwal Industries Pvt Ltd	Ajmer	A			For M/s Commend Austria make system
			III				Aishan Technologies Pvt Ltd	Bengaluru	A			For M/s Zenitel Norway make system
			III				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			
			I				Schneider Electric system india Pvt Ltd	Chennai	A			PLC modules from M/s Schneider France & BOI shall be from LOA approved sources
			I				Rockwell	Sahibabad	A			
			I				Siemens	Nasik	A			
			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	I				Ladder Automation Solution Pvt Ltd	Gurugram	A			Note-11 and note-7 For M/s Honeywell make system
			I				Virtual Automation	Ranga Reddy (Telangana)	A			For M/s Schneider make system
			I				Comac 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	Sonapat	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

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		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 Compitel	Kolkata	A			For M/s Emerson make system	
		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			Delsys 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			Vollkraft 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 GW Radar & 5600 Series for Non-Contact type	
		III			Endress & Houser	Germany	A				

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40	Short Term Fire Proof cable	III				Vega Grieshaber KG	Germany	A								
		III				nVent Solutions limited	UK	A								
		III				Wrexham Mineral	UK	A								
		III				KME	Italy	A								
41	SWAS (Sampling Handling System and Dry Panel)															
		I				Emerson Process Management Ltd	Navi Mumbai	A			Analysers and Other BOI Components from LOA agreed source					
		I				Forbes Marshall	Pune	A			Analysers and Other BOI Components from LOA agreed source					
		I				SEPL	Pune	A			Analysers and Other BOI Components from LOA agreed source					
42	Water Analyser (Chloride, Conductivity, Dissolved Oxygen,pH, Hydrazine, Concentration , Phosphate, Silica, Sodium,Turbidity, Total Iron, Degassed Cation Conductivity)	III														
		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								

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		III			Yokogawa	Bengaluru	A			Make Yokogawa japan and calibration at Yokogawa Bangalore		
		III			ABB	Bengaluru	A			For M/s ABB Germany make		
		III			WIKA Instruments India Pvt Ltd	Pune	A			For M/s WIKA Germany make Model no T-32		
		III			Honeywell Automation India Ltd	Pune	A					
		III			Yokogawa	Japan	A					
		III			Moore	USA	A					
		III			M System co Ltd	Japan	A					
		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 Bendly ,USA make system		
		I			Meggitt India Pvt ltd	Bengaluru	A			For Meggitt (Vibrometer) Switzerland make system		
		I			Forbes Marshall	Pune	A			For Shinkawa ,Japan make system		
		II			GE BENTLY	USA	A					
		II			SHINKAWA	JAPAN	A					
		II			MEGGITT	Switzerland	A					
45	Ultrasonic Type Flow Meter (for Stack)	III			Sick India Pvt ltd	Mumbai	A			For Sick AG Germany make		
		III			Sick AG	Germany	A					
		III			Durag	Germany	A					
		III			Teledyne	USA	A					
46	Ultrasonic type level Transmitter	III			EIP Enviro	Noida	A			1-Ultrasonic level Tx shall be BM Technology Italy make 2-Required mounting arrangement , Testing, Calibration shall be carried out at M/s EIP Works.		
		III			E & H	Aurangabad	A			Complete Instrument Transmitter & Probe to be procured from Mobrey UK , only intergration & configuration at Pawane works		
		III			Emerson Process Management Ltd	Pawane	A					
		III			BM Technology	Italy	A					
		III			Siemens Milltronics	Canada	A					
		III			Nivelco Process Control	Hungary	A					
		III			E & H	Germany	A					
47	UPS With ACDB	III			HAWK Measurement PTY Ltd	Australia	A					

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				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			Hitiachi Hired Power Electronics Pvt Ltd	Gandhinagar	A			Upto 160 KVA,
				Note-5			Fuji Electric Consil 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
												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					BHEL	Bengaluru	A			
		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	Salihabad	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.

PROJECT : Lara-II (2X800MW)		PACKAGE : EPC PACKAGES					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL					REVISION NO : 00	
CONTRACTOR :		CONTRACT NO :										DATE :07.06.2022	
CONTRACT NO :												SUB SECTION: C&I	
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-I)	SS Detail Sub.SCH	SS Approval SCH	Remark		
		I				Lotus wireless technologies India Pvt Ltd	Visakhapatnam	A					
		I				Sheetal Wireless Technologies Pvt Ltd	Pune	A					
		III				Proxim Wireless Corporation	USA	A			BOI shall be as per approval letter		
50	Field Bus Cable/ Profibus Cable- PA & DP type												
51	Field bus components (Field bus modules ,segment protector ,surge protector & SS JB)					LAPP India Pvt Ltd	Bangalore	A					
		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 / I-Triple-IN Germany make Laser Scanner and RPU along with software from TSA Brazil inline with the M/s TSA Letter. 2- Other item like ethernet cable, Ethernet Switch, Junction Box required for execution of 3D stockpile management system can be supplied by EIP Enviro		
53	Perimeter Intrusion Detection System	III											
						Senstar	Canada	A					
54	Radar based Perimeter Surveillance System	III											
						Magos System Ltd	Israel	A			Third Party "Cyber Penetration report " shall be provided along with material TC/COC		
55	Thermal Camera (PTZ)	III											
						FLIR Commercial Systems INC	USA	A					
Main Contractor approved sources (Note-12)													
MC-1	Amonia Analyser	III				Main Contractor Approved Sources							
MC-2	Amonia 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							

		PROJECT : Lara-II (2X800MW) PACKAGE : EPC PACKAGES CONTRACTOR: CONTRACT NO :					LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB SUPPLIER APPROVAL				REVISION NO : 00 DATE :07.06.2022 SUB SECTION: C&I	
		Sr No	Item Description	QP Inspection Category	QP No	QP submission at SCH	Proposed Sub Supplier	Country	SS Approval_Status (Note-1)	SS Detail Sub.SCH	SS Approval SCH	Remark
		MC-7	Biofouling/ Deposit Monitor	III			Main Contractor Approved Sources					
		MC-8	Coal bunker Level monitor	III			Main Contractor Approved Sources					
		MC-9	Compression Fittings(SS)	III			Main Contractor Approved Sources					
		MC-10	Condensing Pots	III			Main Contractor Approved Sources					
		MC-11	Conduits /Pipe (GI)	III			Main Contractor Approved Sources					
		MC-12	Conduits lead coated (Flexible)	III			Main Contractor Approved Sources					
		MC-13	Copper tubing/Brass connectors	III			Main Contractor Approved Sources					
		MC-14	Coriolis Type Mass Flow meter	III			Main Contractor Approved Sources					
		MC-15	Coupling /Interposing Relays	III			Main Contractor Approved Sources					
		MC-16	Density Indicator	III			Main Contractor Approved Sources					
		MC-17	Desk for OWS/EWS/Printer/Server	III			Main Contractor Approved Sources					
		MC-18	Digital Indicators	III			Main Contractor Approved Sources					
		MC-19	Dust Sensor	III			Main Contractor Approved Sources					
		MC-20	Dew point sensor/meter (H2)	III			Main Contractor Approved Sources					
		MC-21	Flow Gauge	III			Main Contractor Approved Sources					
		MC-22	Flow Indicator cum. Totaliser	III			Main Contractor Approved Sources					
		MC-23	Flow Switch	III			Main Contractor Approved Sources					
		MC-24	FRP Junction Box	III			Main Contractor Approved Sources					
		MC-25	Furniture for control Room(Chair, Almira, Lock)	III			Main Contractor Approved Sources					
		MC-26	Furnace exit gas temp probe	III			Main Contractor Approved Sources					
		MC-27	Graphic Interface Unit	III			Main Contractor Approved Sources					
		MC-28	Hand Held Calibrator	III			Main Contractor Approved Sources					
		MC-29	Hart Management System	III			Main Contractor Approved Sources					
		MC-30	Humidistat / Thermostat / Gyserstat / Airstat	III			Main Contractor Approved Sources					
		MC-31	Instant Corrosion Rate Monitor & Portable Corrosion Meter	III			Main Contractor Approved Sources					
		MC-32	Impact head type flow element	III			Main Contractor Approved Sources					
		MC-33	Instrument Tube Fittings (Air)	III			Main Contractor Approved Sources					
		MC-34	Instrument Valve	III			Main Contractor Approved Sources					
		MC-35	IR Detector	III			Main Contractor Approved Sources					
		MC-36	KVM Switch/Matrix KVM Switch	III			Main Contractor Approved Sources					
		MC-37	Level gauge (Transparent & Reflex, Tubular type)	III			Main Contractor Approved Sources					
		MC-38	Level Indicator (Float & Board type)	III			Main Contractor Approved Sources					
		MC-39	Level switch - Float/Displacer Type	III			Main Contractor Approved Sources					
		MC-40	Level Switch (RF Type)	III			Main Contractor Approved Sources					
		MC-41	Level switch capacitance type	III			Main Contractor Approved Sources					
		MC-42	Limit Switch	III			Main Contractor Approved Sources					
		MC-43	Maintenance and Calibration Equipment	III			Main Contractor Approved Sources					
		MC-44	Mini UPS-Type C configuration	III			Main Contractor Approved Sources					
		MC-45	Orifice plate assembly	III			Main Contractor Approved Sources					
		MC-46	On line carbon in Ash analyser	III			Main Contractor Approved Sources					
		MC-47	Pilot Tube	III			Main Contractor Approved Sources					
		MC-48	Pr/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					

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Sr No	Item Description	QP Inspection Category	QP No	QP submission at SCH	Proposed Sub Supplier	Country	SS Approval_Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
MC-58	Synchroscope	III			Main Contractor Approved Sources					
MC-59	Semaphore Indicators	III			Main Contractor Approved Sources					
MC-60	Sight Flow Indicator	III			Main Contractor Approved Sources					
MC-61	Smart Positioner	III			Main Contractor Approved Sources					
MC-62	Socket Weld Fittings	III			Main Contractor Approved Sources					
MC-63	Solenoid Valve	III			Main Contractor Approved Sources					
MC-64	Solid Mass Flow Meter	III			Main Contractor Approved Sources					
MC-65	Terminal Block (Cage and Clamp type)	III			Main Contractor Approved Sources					
MC-66	Temperature cum Humidity Indicator	III			Main Contractor Approved Sources					
MC-67	Temperature Element(Thermocouple , RTD & Thermowell)	III			Main Contractor Approved Sources					
MC-68	Temperature Gauge(With Thermowell)	III			Main Contractor Approved Sources					
MC-69	Temperature Switch	III			Main Contractor Approved Sources					
MC-70	Transducer	III			Main Contractor Approved Sources					
MC-71	Tube thickness Meter	III			Main Contractor Approved Sources					
MC-72	Voltmeter/ Wattehour 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 Magenetic 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	Comid & 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 Bollboard	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					

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Sr No	Item Description	QP Inspection Category	QP No	QP submission at SCH	Proposed Sub Supplier	Country	SS Approval_Status (Note-I)	SS Detail Sub.SCH	SS Approval SCH	Remark
MC-109	Flap barrier	III			Main Contractor Approved Sources					
MC-110	Flash Lights for covering perimeter area for clear view from PTZ in night time	III			Main Contractor Approved Sources					
MC-111	Geo fencing	III			Main Contractor Approved Sources					
MC-112	Glass Break switch at Emergency Exit	III			Main Contractor Approved Sources					
MC-113	Guard tour	III			Main Contractor Approved Sources					
MC-114	Half Height Turnstile	III			Main Contractor Approved Sources					
MC-115	Handheld Walkie - Talkie	III			Main Contractor Approved Sources					
MC-116	HHMD	III			Main Contractor Approved Sources					
MC-117	Long Range RFID Reader	III			Main Contractor Approved Sources					
MC-118	Monitors 24 inch Full HD	III			Main Contractor Approved Sources					
MC-119	Network Panel	III			Main Contractor Approved Sources					
MC-120	Optical Time Domain Reflectometer (OTDR) with all accessories	III			Main Contractor Approved Sources					
MC-121	Panic Button with Audible Alarm	III			Main Contractor Approved Sources					
MC-122	Panic button/SOS button supportin SIP protocol	III			Main Contractor Approved Sources					
MC-123	RFID based Stickers	III			Main Contractor Approved Sources					
MC-124	Sliding Gate	III			Main Contractor Approved Sources					
MC-125	SMS gateway	III			Main Contractor Approved Sources					
MC-126	Storage Device (SAN/NAS/DAS) of 100 TB each	III			Main Contractor Approved Sources					
MC-127	Traffic Light	III			Main Contractor Approved Sources					
MC-128	Turnstile - half height	III			Main Contractor Approved Sources					
MC-129	SPIKE BARRIER	III			Main Contractor Approved Sources					
MC-130	CHAIN LINK FENCE	III			Main Contractor Approved Sources					
MC-131	X-ray Baggage Scanner	III			Main Contractor Approved Sources					
MC-132	Static Radio Set	III			Main Contractor Approved Sources					
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 those items Quality control to be exercised as per Main contractor Quality Assurance System. The final acceptance by NTPC shall be on the basis of Certificate of Conformance (COC) by Main Contractor.										
UNITS/WORKS : Place of manufacturing- Place of main supplier of multi units/works.										
NOTE - 1 : A: Vendors to submit project specific documents as per Sub-QR requirements in case the Vendor is approved under collaboration agreement.										
B: In case approved sub vendor is offering product with latest model/series apart from earlier approved, vendors to submit project specific documents as per Sub-QR requirements.										
NOTE - 2 : For Instrument cable <= 1 KM inspection category CAT - III. For > 1 KM to <= 10 KM Inspection category CAT - II COC & FOR > 10 KM Inspection category CAT-I										
NOTE-3 : For Fiber Optic cable <=10KM inspection category CAT - III & for > 10KM Inspection category CAT-II										
NOTE-4 : Batteries for UPS <= 10 KVA and batteries for intelligent battery charger 24 V DC <= 40 Amp inspection category CAT-III & for Batteries for UPS> 10KVA and batteries for intelligent battery charger 24 V DC > 40 Amp rating										
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 INDEGENOUSLY										
NOTE-8 : For the C & I Instruments mounted on the skid of the main item or supplied as a 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 .										

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	CONTRACTOR:									SUB SECTION: C&I	
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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-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.											

Indicative Vendor List

		Project/ परियोजना : LARA STPP STAGE-II (2X800 MW) Package/ पैकेज : EPC PACKAGE 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: CIVIL WORKS		DOC. NO./ दस्तावेज सं.: REV. NO.: DATE/ तिथि : 08.06.2022 PAGE/ पृष्ठ : PAGE 1 OF 7			
S. N. क्र.सं.	Item / मद	QP/ Insp. Cat. क्यापी/ निरी. श्रेणी.	QP No. / क्यू. पी. सं.	QP Sub. Sched ule क्यूपी उप.अ. नुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-supplier 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			
FORMAT NO./ प्रारूप सं: QS-01-QAI-P-1B/F1-R0				Engg. Div. / QA&I					

एनटीपीसी NTPC		Project/ परियोजना : LARA STPP STAGE-II (2X800 MW) Package/ पैकेज : EPC PACKAGE Supplier/ आपूर्तिकर्ता: Contract No./ अनुबंध सं.:		LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब - वेडर के अनुमोदन सहित मर्दों की सूची SUB-SYSTEM उप-प्रणाली: CIVIL WORKS		DOC. NO./ दस्तावेज सं.:	
				RELIABLE SPONGE PVT LTD UNIT III		KALUNGA	A
				VSP ENTERPRISES PVT. LTD		SONEPAT	A
				SKIPPER LIMITED		UNIT-I: JANGALPUR, Howrah. Unit-II: ULUBERIA UNIT, Howrah. UNIT- III: BCTL, Howrah.	A Proto type inspection at Unit-Bagnan, Howrah
				RUKMANI ELECTRICAL & COMPONENT PVT. LTD		RAIPUR	A
				RICHARDSON & CRUDDAS (1972) LTD		NAGPUR	A
				TATA STEEL BSL LIMITED		RAIGAD	A
				TATA STEEL BSL LIMITED		SAHIBABAD	A
				TATA BLUESCOPE STEEL LTD		JAMSHEDPUR	A
				ESSAR STEEL LTD		PUNE	A
				NATIONAL STEEL & AGRO INDUSTRIES LTD		DHAR	A
				JSW STEEL COATED PRODUCTS LTD		KALMESHWAR (NAGPUR)	A
				JSW LTD		THANE	A
2.	COLOUR COATED METAL DECK & CLADDING/ROOFING SHEET (COIL)	I					AL-ZN COIL FOR CLADDING

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		Project/ परियोजना : LARA STPP STAGE-II (2X800 MW) 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 मर्दों की सूची SUB-SYSTEM उप-प्रणाली: CIVIL WORKS		DOC. NO./ दस्तावेज सं.:	
						REV. NO.:	
						DATE/ तिथि : 08.06.2022	
						PAGE/ पृष्ठ : PAGE 3 OF 7	
					BHUSHAN POWER & STEEL LTD	SAMBALPUR (ODISHA)	A
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 MACHINERY & 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

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		Project/ परियोजना : LARA STPP STAGE-II (2X800 MW) Package/ पैकेज : EPC PACKAGE 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: CIVIL WORKS			DOC. NO./ दस्तावेज सं.:	
					VINFAB ENGINEERS INDIA PVT LTD. (For Galvanising) VINFAB GRATINGS (For Fabrication)	THANE		REV. NO.:	
6.	PROFILERS FOR COLOUR COATED METAL DECK & CLADDING/ROOFING SHEETS	II			MAIN CONTRACTOR APPROVED SOURCE	-	-	DATE/ तिथि : 08.06.2022	
7.	FABRIC EXPANSION COMPENSATOR (FOR CHIMNEY)	II			MAIN CONTRACTOR APPROVED SOURCE	-	-	PAGE/ पृष्ठ : PAGE 4 OF 7	
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		
					ESL STEEL LTD.	BOKARO	A		
					JSW ISPAT SPECIAL PRODUCTS LTD.	RAIGARH, CHHATTISGARH	A		
11.	HIGH PERFORMANCE MOISTURE COMPATIBLE CORROSION RESISTANT COATING SYSTEM	III			CECRI LICENSED SOURCES	-	-		
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12.	BITUMEN	III			ALL GOVERNMENT REFININARIES	-		-			
13.	PTFE BEARING / ELASTOMERIC BEARING	III			MORTH / RDSO APPROVED VENDORS	-		-			
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.)	-		-			

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एनडीपीसी NTPC		Project/ परियोजना : LARA STPP STAGE-II (2X800 MW) 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: CIVIL WORKS				DOC. NO./ दस्तावेज सं.:		
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23.	CONSTRUCTION CHEMICALS/ADMIXTURE, WATER PROOFING COMPOUNDS AND GROUTS	III				MAIN CONTRACTOR APPROVED SOURCE	-					
24.	PAINT AND PAINTING SYSTEM	III				MAIN CONTRACTOR APPROVED SOURCE	-					
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 : Approval is conditional and subject to Sub QR / Provenances clearance as specified in the contract specification. Further for any change in the Technical specification at later stage vendor approval will be reviewed accordingly.

NOTE 2: 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- इकाईयों / कार्यों के मुख्य सप्लायर का स्थान.