

CONTRACT QUALITY REQUIREMENTS (CQR) for ELEVATORS FOR FGD APPLICATION

PROJECT: NTPC – PATRATU 3 x 800 MW NTPC Contract no: 01-CS-9585-001-2 UPRVNL Panki (1 X 660 MW) Consultant: NTPC UPRVNL Contract no: CS-9962-001 BHEL Package: FGD PACKAGE CONTRACTOR: BHEL - RANIPET	CONTRACT QUALITY REQUIREMENTS (CQR) <u>ELEVATORS FOR FGD APPLICATIONS.</u> PATRATU 3 x 800MW (BHEL WO no: R4R3, R4S3 and R4S4) and UPRVNL Panki (1 X 660 MW) (BHEL WO R680)	DOC.NO: BAP/QR/Elevators Pataratu & Panki: 001 Rev No : 00 Page 1 of 5 Date: 13.04.2020	##Enquiry No: ##Supplier Name: ##Offer reference: ##Date:
Sl. NO.	DESCRIPTION	BHEL and Ultimate Customer – UPRVNL PANKI & NTPC cum Consultant for Panki Quality Requirements	##Specific confirmations by the vendor

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01	Quality Plan Requirement	1. RQP or MQP is applicable for these Elevators for FGD application. 2. Accordingly, Actual Elevator (OEM) shall submit the RQP/MQP in ultimate customer – UPRVNL / NTPC format. 3. If any of Elevator manufacture is having, ultimate customer NTPC approved MQP (Manufacturing Quality Plan) / RQP (Reference Quality Plan) and having validity, the same is applicable for these Elevators for inspection subject to obtaining ultimate customer UPRVNL / NTPC formal approval in the event of an order through endorsement sheet approval route as in sl no: 3 below 4. Accordingly, Elevator (OEM) Manufacture shall submit the filled up Endorsement sheet (copy attached) with ultimate customer approved MQP/RQP with signature & seal in the event of an Purchase Order from BHEL. 5. If Elevator does not have MQP/RQP, they should submit a fresh MQP to BHEL/NTPC (in NTPC format) for review & approval. (copy attached).	
02	BHEL / Ultimate Customer – UPRVNL and NTPC approved vendors	LT Motors are to be procured only from following Ultimate Customer - NTPC approved vendors and no deviation on this specific requirement is acceptable. ➤ KEC / Bengaluru (Up to 200KW) & Hubli (Up to 90KW) ➤ CGL/Ahemednagar (Up to 200KW) ➤ SIEMENS/Mumbai (Up to 200KW) ➤ ABB/Faridabad (Up to 55KW) and Bengaluru (Up to 200KW) ➤ BBL/Mumbai (Up to 200KW) ➤ NGEF/ Bengaluru (Up to 15KW) ➤ Marathon / Kolkatta (Up to 200KW) ➤ Jyothi / Vadodara (Up to 200KW) ➤ Laximi Hydraulics Private Limited (LHPL) / Solapur (Up to 200KW)	

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03	Inspection Methodology to be adopted at Actual LT Motor Manufacture works by OEM – Elevator	<u>LT Motors up to 30KW – Inspection Categorization: III</u> All Routine tests on LT Motors are to be ensured by OEM – Elevator Vendor & same are to be inspected & witnessed by OEM Vendor / BHEL / BHEL AIA (BHEL authorized inspection Agency) at LT Motor manufacture works as per approved MQP & approved data sheet / drg / spec/ as per relevant BIS (Bureau of Indian Standard) - BIS 325 / IEC 60034 etc and all the Routine Test Reports with Inspection report (IR) to be submitted for BHEL/Ultimate Customer – UPRVNL & NTPC for review and to obtain inspection and dispatch clearance .	
		<u>LT Motors (30KW to 50KW) – Inspection Categorization: II</u> All Routine Tests on LT Motors are to be ensured by OEM ELEVATOR vendor & witnessed by BHEL/BHEL AIA (BHEL authorized inspection Agency) at LT Motor manufacture works including review of Type Test Reports and Degree of Protection Test Reports (IP 55) as per approved MQP & approved data sheet/drg/spec / as per relevant BIS (Bureau of Indian Standard) - BIS 325 / IEC 60034 etc and all the Routine Test Reports with Inspection report (IR) to be submitted for BHEL/Ultimate Customer – UPRVNL & NTPC for review and to obtain inspection and dispatch clearance .	

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03	Inspection Methodology.....Contd	<u>Above 50KW and up to 200KW – Inspection Categorization: I</u> All Routine & Type Tests if any on LT Motors are to be ensured by OEM – ELEVATOR Vendor and same shall be offered to BHEL/ BHEL AIA (BHEL authorized inspection Agency) / Ultimate Customer- UPRVNL / NTPC (As applicable) for inspection & witnessing including review of Degree of Protection Test Reports as per approved MQP /RQP with endorsement sheet / approved data sheet / drg / spec / as per relevant BIS (Bureau of Indian Standard) - BIS 325 / IEC 60034 etc and all the Routine Test Reports , Type test Reports including Degree of protection test report with Inspection report (IR) to be submitted for BHEL/Ultimate Customer – UPRVNL & NTPC (As applicable) for review and to obtain inspection and dispatch clearance .	
		BHEL/ BHEL AIA (BHEL authorized inspection Agency)) / Ultimate Customer- UPRVNL / NTPC (As applicable) to witness / perform inspection at LT Motor Supplier works and submit all the inspection documents and routine & Type test reports including Degree of Protection Test Reports (IP 55) as per approved MQP & approved data sheet / drg / spec / as per relevant BIS (Bureau of Indian Standard) - BIS 325 / IEC 60034 etc.	
		No material shall be dispatched without BHEL / BHEL AIA and Ultimate Customer – UPRVNL / NTPC (As applicable) Inspection and dispatch clearance.	
04	Painting Requirements	Painting requirement like paint shade and painting thickness including no of coats if any are to be ensured by the OEM vendor for these LT Motors as per BHEL/ Ultimate Customer – UPRVNL / NTPC (As applicable) approved data sheet/drg/spec (As applicable).	

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05	Packing	Packing shall be as per Specification / Drg. / Data sheet including sea worthy packing if any to avoid any transit & handling damages.	
06	For Inspection call	Inspection call by OEM Vendor for LT Motor inspection at Actual LT Motor Manufacture works to be raised for BHEL/BHEL AIA inspection / Ultimate Customer – NTPC including for type test witnessing if any to be ensured / addressed to Mr R Kesavan., DGM (QC-Proc)., Mobile no: +91 9443006303., Email id: kesavan@bhel.in and Mr Kovarathanan., DM (QC-Proc)., Mobile no: +91 8903502628., Email id: kovak@bhel.in including for inspection related activities for immediate response / resolution.	
07	Document Package / Dossier	Specific confirmation for Document Package in the event of an order (3 hard copies + soft copies in PDF file) is to be given containing the following with proper linkages (.) (i) Index Sheet (ii) MQP/RQP/Endorsement sheet (iii) TCs identified by BHEL/UPRVNL / NTPC for record for “CHP” (Customer Hold Point) Verification & Witness “W” portion as given in MQP / RQP / MQP (as applicable). (iv) Final Inspection Report + TC (v) BHEL AIA (BHEL Appointed Inspection Agency) / BHEL report + TC (vi) Ultimate customer UPRVNL / NTPC CHP (Customer Hold Point) / MDCC (vii) Type test reports conducted /submitted with approval (If any) with approved data sheet and BOM with actual make used with Customer approved drgs.	

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08	Important notes	<u>Inspection Categorization: I</u> Inspection by BHEL/BHEL AIA and also by Ultimate Customer – UPRVNL / NTPC based on MQP/RQP approved and as in sl no:03 <u>Inspection Categorization: II</u> Inspection by Main contractor (BHEL) / BHEL AIA based on Ultimate Customer – NTPC approved MQP/RQP & based on inspection as in sl no:03 <u>Inspection Categorization: III</u> COC by Main contractor (BHEL) to Ultimate Customer – NTPC based on inspection as in sl no:03.	
		Any cost implication for conducting checks / tests including for witnessing of any of the tests at Actual LT Motor Manufacture Works by BHEL / BHEL AIA / Ultimate Customer – UPRVNL NTPC is in the scope of OEM Supplier only and no extra cost if any will be admissible in the event of an order and also during execution of the contract.	

Supplier signature with seal

Necessarily to be filled up & submitted by the OEM vendor at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirements against LT Motors being BHEL/ ultimate customer – UPRVNL / NTPC (National Thermal Power Corporation Limited) specific requirements.

ENDORSMENT SHEET FOR RQP/SQP/MQP (As applicable)

TO BE FOLLED IN BY SUPPLIER AT TIME OF SUBMISSION			To be filled in by NTPC
PROJECT NAME	UPRVNL Panki (1 X 660 MW) - NTPC CONSULTANT NTPC Patratu 3 x 800MW	<u>REVIEW & ENDORSEMENT BY NTPC</u> (PROJECT) SPECIFIC QP NUMBER ALLOTTED QP NO.: REV.NO.: DATE: ** The RQP/SQP/RFQP/SFQP once endorsed for a particular contract shall remain valid even through the original QP may have expired or revised, unless / otherwise mutually agreed by the supplier. (1)	
CONTRACT NO.:	01-CS-9962-001 BHEL WO R680 for Panki 01-CS-9585-001-2 (BHEL W.O no: R4R3, R4S3 and R4S4) for PATRATU 3 x 800MW		
MAIN SUPPLIER	BHEL RANIPET		
MANUFACTURER WORKS & ADDRESS	(To be filled by OEM – Elevator Vendor)		
ITEM / EQUIPMENT / SYSTEM/ SUB-SYSTEM DETAILS i.e. MODEL TYPE / SIZE / RATING etc.	ELEVATORS FOR FGD APPLICATION		
APPROVED RQP/SQP/MQP (As applicable):	(To be filled by OEM – Elevator Vendor)		
Confirmation by Main Supplier (TICK WHICHEVER APPLICABLE)		(TICK APPLICABLE)	
(✓)I.That the item / component is identical to that considered for type test procedure approval. OR		The Type test procedure is endorsed for this project without change The type test procedure is endorsed for this project with change indicated <u>DISTRIBUTION OF ENDORSEMENT OF</u> A) RQP/SQP: 1.MAIN SUPPLIER (WITH A COPY OF TTP) 2.MANUFACTURER 3.RIO 4.CQA-SPL 5.CQA-O/C B) REQ/SFQP: 1.MAIN SUPPLIER (with a copy of TTP) 2.MANUFACTURER 3.NTPC FQA (with a copy of TTP) 4.NTPC Erection (with a copy of TTP) 5.CQA-SPL 6.CQA-O/C	
II.That there are minor changes in the item/ component with respect to that considered for type test procedure approval, however the same do not affect the contents of type test procedure. OR			
III.That there are minor changes in the item/ component with respect to that considered for Type test procedure Approval, however the same affect the type test procedure slightly, as indicated below / in attached sheet.			
SIGN.: (Main Supplier) DATE:	(To be signed & filled by OEM – Elevator Vendor) SIGN.: (Manufacturer) DATE: 13.03.2020	NTPC (Reviewed /Approved by / Date & Seal)	

OEM – ELEVATOR SUPPLIER / MFGR.'s LOGO (TO BE FILLED BY OEM – ELEVATOR SUPPLIER)		ELEVATOR MANUFACTURER'S NAME AND ADDRESS (TO BE FILLED BY OEM / ELEVATOR / LT MOTOR MANUFACTURE)		MANUFACTURING QUALITY PLAN				PROJECT: UPRVNL Panki (1 X 660 MW) - NTPC CONSULTANT NTPC Patratu 3 x 800MW 0MW PACKAGE: FGD PACKAGE NTPC CONTRACT NO: 01-CS-9962-001 BHEL WO R680 for Panki 01-CS-9585-001-2 (BHEL W.O no: R4R3, R4S3 and R4S4) for PATRATU 3 x 800MW MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM – Elevator / LT Motor & ADDRESS: (TO BE FILLED BY OEM ELEVATOR / LT MOTOR SUPPLIER))						
				ITEM : ELEVATORS FOR FGD APPLICATION		QP NO.: ELEVATORS/LT MOTOR:001 REV.NO.: 00 DATE: PAGE: OF....								
SL. NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
					M	C/N					M	C	N	
1.	2.	3.	4.	5.	6.		7.	8.	9.	D*	** 10.			11.

		LEGEND: * RECORDS, IDENTIFIED WITH “TICK” (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. ** M: OEM MANUFACTURER/LT MOTOR SUB-SUPPLIER C: MAIN SUPPLIER – BHEL/BHEL AIA , N: NTPC P: PERFORM W: WITNESS AND V: VERIFICATION. AS APPROPRIATE, CHP: NTPC SHALL IDENTIFIED IN COLUM “N” AS ‘W”	DOC. NO.:		REV..... CAT.....	
OEM ELEVATOR / LT MOTOR SUPPLIER	MAIN (BHEL) SUPPLIER		FOR NTPC USE			
SIGNATURE				REVIEWED BY	APPROVED BY	APPROVAL SEAL