बी ए	च ई एल			MANUFACT	TURING QUA	LITY PLAN		PROJI	ECT:				
H	Manuf	acturer Name and <i>F</i>	\ddress:		ITE	EM: AGITATO	RS	PACK	AGE: I	FGD I	PACŁ	(AGE	
					QP	NO: FGD:704,	REV:00	CUST	-	RAC	TOR.	RHF	1
Main c	contractor				DT	: 26.10.2020	Page 1 of 4	1417 (1114	00111	11110	. 011.	DITE	-
SL.	COMPONENT &	CHARATERISTICS	CLASS	TYPE OF	QUATUM OF	F REFERENCI	E ACCEPTANCE	FORMA	T	А	GEN	CY	REMARKS
NO.	OPERATION		0200	CHECK	CHECK	DOCUMENT	Γ NORMS	OF REC	ORD	M	С	N	
					M C/	N							
1	2	3	4	5	6	7	8	9	D*		10		11

1.0	RAW MATERIA	LS INSPECTION											
1.1	Shaft & Blades, rubber composition & other material	Chem. & Mech Properties	Major	Review of MTC	One/ Heat	One/ Heat	Drawing/Data Sheet	TC	1	Р	V	٧	For shaft Dia ≥ 40mm UT shall
	including castings &	Dimensions	,	Measure nt	100%			IR	1	P	-	-	be done as per ASTM A 388.
	forgings	Surface Defects		Visual	100%	-		IR		P	-	-	
2.0	Motor			Separat	e MQP f	or Electr	ical Motor as applicable.						
3.0	Gear box	Make,Type, Rating,vibration,n oise Review of Routine/Run test Report	Major	Review of manufact ure's test report	100%	100%	Drawing/Data Sheet	TC/ Repo rt	1	P	V	V	
4.0	IN PROCESS I	NSPECTION											
4.1	Welding Qualifications	WPS,PQR,WPQ	Major	WPS, PQR & WPQ	100%	100%	ASME Sec IX/AWS D1.1	WPS/ PQR	1	Р	٧	٧	

	LEGEND: * RECORDS, INDENTIFIED WITH "TICK" (√) UNDER			
	COLUMN 'D'SHALL BE SUBMITTED TO CUSTOMER AS A 'QA'			
	DOCUMENTATION PACKAGE.			
	M: MANUFACTURE/SUB SUPPLIER, C: MAIN			
	CONTRACTOR(BHEL/BHEL AIA), N:NTPC P: PERFORM W:			
	WITNESS AND V: VERIFICATION / REVIEW OF RECORDS,			
	MTC: MATERIAL TEST CERTIFICATE, TC: TEST CERTIFICATE,			
	MA: MAJOR, MI:MINOR, COC: CERTIFICATE OF			
MANUFACTURER SIGN & STAMP	CONFORMANCE, IR: INSPECTION REPORT, TR: TEST REPORT	PREPARED BY	reviewed by	APPROVED BY
	AIA: AUTHORISED INSPECTION AGENCY.			

वीर	ग्च ई एल			MANUFAC1	TURING	QUALIT	Y PLAN		PROJE	ECT:					
H	Manufa Manufa	acturer Name and A	ddress:			ITEM:	AGITATORS	3	PACK		FGD	PACK	AGE		
	77					QP NO): FGD:704, R	EV:00	CUST No: MAIN CONTRACTOR: BHEL						
Main o	contractor					DT: 26	.10.2020 P	age 2 of 4	IVIAIN	JUNI	NAU	IUN.	DUE	_	
SL.	COMPONENT &	CHARATERISTICS	CLASS	TYPE OF	QUATL	JM OF	REFERENCE	ACCEPTANCE	FORMA			GENC		REMARKS	
NO.	OPERATION			CHECK	CHE M	CK C/N	DOCUMENT	NORMS	OF REC	ORD	M	C	N		
1	2	3	4	5	W 6		7	8	9	D*		10		11	
4.2	Marking,cutting ,Edge preparation Tacking	Dimensions	Major	Measure ment	100%	-	Appd.Drawi		IR	-	Р	•	-		
4.3	Shaft & Impeller	Visual & Dimension check,face out and run out of shaft (after flange welding)	Major	Measure ment	100%	100%	As per Spec Appd.Drawi		IR	1	Р	٧	V		
4.4	Welds	Visual, Dimension	Major	Visual, Measure ment	100%	100%	ASME Sec-	VIII/ AWS D!.1	IR	1	Р	V	٧		
4.5	Weld surface check	Weld soundness	Major	DPT	100%	100%	ASME Sec- Appendix 8	VIII/AWS D1	IR	V	Р	W	٧		
4.6	Impeller	Balancing	Major	Visual, Measure ment	100%	10%	ISO 1940- /. Data sheet	Appd.Drg.&	TR	٧	Р	W	٧		

	LEGEND: * RECORDS, INDENTIFIED WITH "TICK" (√) UNDER			
	COLUMN 'D'SHALL BE SUBMITTED TO CUSTOMER AS A 'QA'			
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	CONTRACTOR(BHEL/BHEL AIA), N:NTPC P: PERFORM W:			
	WITNESS AND V: VERIFICATION / REVIEW OF RECORDS,			
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MANUELOTURED OLOM & OTAMB	MA: MAJOR, MI:MINOR, COC: CERTIFICATE OF	DDEDADED DV	DEVIEWED DV	ADDDOVED DV
MANUFACTURER SIGN & STAMP	CONFORMANCE, IR: INSPECTION REPORT, TR: TEST REPORT	PREPARED BY	reviewed by	APPROVED BY
	AIA: AUTHORISED INSPECTION AGENCY.			

वीर	च ई एन				MANUFACT	FURING	QUALI	TY PLAN		PROJ	ECT:				
R	HFL	Manufa	acturer Name and A	ddress:			ITEM:	AGITATOR	S	_	AGE:	FGD	PACK	AGE	
	"						QP NO): FGD:704, R	EV:00		CUST No: MAIN CONTRACTOR:				I
Main (contractor						DT: 26	6.10.2020 P	age 3 of 4	INIVIIA	OONI	ΠΛΟ	TOI1.	םו ונ	L
SL. NO.	COMPON OPERAT	-	CHARATERISTICS	CLASS	TYPE OF CHECK	QUATU CHE		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMA OF REC		M	AGENO C	CY N	REMARKS
						M	C/N								
1	2	2	3	4	5	6	j	7	8	9	D*		10		11
4.7	Rubber	Lining	Thickness of Rubber, Hardness, Spark test, Adhesion Test on Test piece	Major	Measure ment	100%	10%	As per Specs./ Appd. Drg. & data sheet	Appd.Drg.& Data sheet,	TR	1	P	W	٧	
5.0	FINAL I	NSPEC1	TION	I		I				I					
5.1	Final As Base Frame, F etc.	,	Visual- Workmanship, Dimensional,	Major	Visual, Measure ment	100%	20% of each type(Appd.Drg. 8	& Spec,	IR	1	P	W	٧	For Top Agitator with shaft length>5meter
5.2	Free Air test of Complei assemb	te	Current,RPM, Vibration,Noise & Temperature rise	Major	Measure ment	100%	Vertic al/Hor izonta l)		er's procedure/ Irawing/Data	IR	1	Р	W	W	run test to be carried out with bearing Shaft only.
5.3	Painting	l	Visual,DFT	Major	Paint Shade & DFT measure ment	100%	10%	NTPC Appr Schedule	oved Painting	IR	1	Р	W	٧	
5.4	Marking		Visual	Major	Visual	100%	10%	Appd.Drawi	ng	IR	1	Р	W	V	
5.5	Packing		Visual	Major	Visual	100%	100%	Appd.Drawin	g/Specification	COC	-	Р	-	-	
5.6	Review Docume		MQP Compliance	Major	Complian ce Record	100%	100%	Completion documents, as per Appr	Test Report	IR	1	Р	٧	٧	
MANUI	FACTURER	SIGN & ST/	LEGEND: * RECO COLUMN 'D'SHALL DOCUMENTATION M: MANUFACTURE CONTRACTOR(BH WITNESS AND V: ' MTC: MATERIAL T MA: MAJOR, MI:MI CONFORMANCE, I AIA: AUTHORISED	BE SUBM I PACKAGE E/SUB SUP EL/BHEL A VERIFICAT EST CERTI NOR, COC IR: INSPEC	ITTED TO CUST :: PLIER, C: MAIN IA), N:NTPC P: ION / REVIEW C FICATE, TC: TE : CERTIFICATE TION REPORT,	PERFORM PERFORM OF RECORD ST CERTIF OF	W: OS, FICATE,	PREPAI	RED BY	REVI	EWED	ВУ			APPROVED BY

बीर	म ईएन				MANUFAC	TURING (QUALI	TY PLAN		PROJE	CT:				
H	Mai	nufa	acturer Name and <i>F</i>	\ddress:			ITEM:	AGITATORS	3	PACK	-	FGD	PACK	(AGE	
	//						QP N	0: FGD:704, RI	EV:00	CUST MAIN (-	RAC	TOR.	RHFI	
Main	contractor						DT: 20	6.10.2020 Pa	age 4 of 4	1417 (114	00111	11/10	1011.		_
SL.	COMPONENT	&	CHARATERISTICS	CLASS	TYPE OF	QUATU	M OF	REFERENCE	ACCEPTANCE	FORMA	T	A	(GEN	CY	REMARKS
NO.	OPERATION				CHECK	CHE	CK	DOCUMENT	NORMS	OF REC	ORD	M	O	N	
						M	C/N								
1	2		3	4	5	6		7	8	9	D*		10		11

Notes:

- 1. This QP is applicable for Mandatory spare also.
- 2. All other minor items, which are not cover under this QP, shall be manufactured inspected as per OEM (Original equipment Manufacturer)/BHEL standard practice and relevant standard. Relevant TC/COC will be submitted for the same.

	LEGEND: * RECORDS, INDENTIFIED WITH "TICK" ($$) UNDER			
	COLUMN 'D'SHALL BE SUBMITTED TO CUSTOMER AS A 'QA'			
	DOCUMENTATION PACKAGE.			
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	CONTRACTOR(BHEL/BHEL AIA), N:NTPC P: PERFORM W:			
	WITNESS AND V: VERIFICATION / REVIEW OF RECORDS,			
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MANUFACTURER SIGN & STAMP	CONFORMANCE, IR: INSPECTION REPORT, TR: TEST REPORT	PREPARED BY	reviewed by	APPROVED BY
	AIA: AUTHORISED INSPECTION AGENCY.			

	Annexure Q	
	Indent No: Enquiry no:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SI.No	BHEL / Customer Requirements	## Specific confirmations by the manufacturer (Acceptable/Not acceptable)
	Quality Plan Requirement: (If SQP is not given & Vendor QP applicable)	
	(i) MQP (Manufacturing Quality Plan) shall be submitted in attached format for BHEL/Customer review & approval. Our SQP/Typical MQP/ MQP Format is attached for guidance & use.	
	(ii) MQP shall invariably cover w.r.t Inward inspection including on Raw material Procurement, In process and Final inspection in elaborated way/details.	
	(iii) Bidder shall also to give specific confirmation that on need basis, their competent officials shall visit to BHEL / customer for finalization of Quality plan including test procedure/methodology during preaward / post award approval / detailed engineering in the event of an order.	
	(iv) No deviation on BHEL/Customer approved MQP/ SQP (In case BHEL SQP is provided) is acceptable.	
1	(v) Bidder shall agree to submit all cross referred documents other than codes/standards to BHEL/Customer/Consultant.	
	Important Notes shall be included in MQP: (a) Latest revision of Standard's & Specification shall apply. Only International Standards are applicable. (b) Materials shall be procured in compliance to Functional Technical Specification. (c) Inspection shall be in compliance with Approved Quality Control Procedure for the Product. (d) NDT shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME standard. (e) Gauges and measuring Instruments, with valid calibration only shall be used. (f) Cleaning and Painting of products shall be carried out as per Approved Painting Schedule. (g) Finished Products shall be packed to comply with Approved Packing Schedule. (h) Welding shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME standard.	
2	Domestic / Inland Inspection will be carried out by BHEL/BHEL appointed Third Party Inspection Agency (TPIA) / Customer/Customer Appointed Inspection Agency/Consultant. This is applicable for all Stage inspection and Final Inspection identified as "W" - Witness or "CHP" - Customer Hold Point as per customer approved Quality Plan/ Technical specification / Approved Drawing/ Approved Data sheet / Scheme / PID / PFD / SLD (Process Instrumentation Diagram / Process Flow Diagram / Single Line Diagram) etc. (as applicable).	
3	Inspection Agency for Foreign Bidders and also for Indian Bidder but importing from Foreign Sources: (1) Any one of the following Third Party Inspection Agency (TPIA) shall be appointed by the bidder and same shall be furnished by the bidder in techno commercial bid itself. (2) The details of TPIA with contact details like Name of the official, Phone no, Email id shall also to be submitted during pre/post award. However cost for such inspection agency shall be borne by the bidder only. Inspection charges for such inspection agency shall be indicated separately so that if BHEL/Customer is undertaking the inspection by on their own , then these charges are non claimable by the bidder. List of TPIA 1.M/s Bureau Veritas 2.M/s TUV-Nord 3.M/s TUV-SUD 4.M/s TUV Rheinland 5.M/s Lloyds Register 6.M/s SGS 7.M/s Germanischer Lloyds 8.M/s QUEST 9.M/s Certification Engineers International 10.M/s Intertek 11.M/s IR Class Systems and Solutions 12.M/s DNV 13. M/s Fichtner 14. M/s ABS Inspection Services	

Sl.No	BHEL / Customer Requirements	## Specific confirmations by the manufacturer (Acceptable/Not acceptable)
4	Stage Inspection during manufacturing Process: Stage Inspection during manufacturing shall be carried out as per approved quality plan and all necessary documents shall be provided for review, verification and clearance for further processing. This inspection call shall be given well in advance (at least 2 weeks before) to TPI/Bidder's own inspection agency to avoid delay in the manufacturing processes.	
5	Inspection before despatch for domestic supplier: Inspection before despatch at supplier's works shall be carried out by BHEL appointed Inspection agency (as in SI no. 2). Inspection shall be done as per approved Quality plan/Technical specification/ Approved Drawing/ Approved Data sheet.	
6	Inspection at Foreign Source/Supplier: (a) As in sl no: 3. shall be ensured without fail (b) No material / items shall be despatched without getting the written communication from BHEL / Customer inspection carried out by Bidder appointed Third Party Inspection Agency (As per Sl no.3) / Customer/Customer Appointed Inspection Agency/Consultant. This is applicable for all Stage inspection and Final Inspection identified as "W" - Witness or "CHP" - Customer Hold Point as per customer approved Quality Plan/ Technical specification / Approved Drawing/ Approved Data sheet / Scheme / PID / PFD / SLD (Process Instrumentation Diagram / Process Flow Diagram / Single Line Diagram) etc. (As applicable). Inspection before despatch for Foreign supplier: Inspection before despatch at supplier's works shall be carried out by bidder appointed inspection agencies having international presence at vendors and or vendor's sub vendor works. Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet by TPIA mentioned in Sl no: 03 at supplier's cost.	
7	Painting shall be done strictly as per BHEL/Customer approved painting schedule / scheme only. Paint Thickness / Paint shade shall be ensured as per BHEL / Customer approved painting schedule / specification / data sheet etc. No deviation is acceptable unless otherwise accepted by BHEL/Customer in writing. Any conflict if any among BHEL / Customer approved painting schedule / Spec / data sheet etc. shall be brought to the notice of BHEL well in advance before proceeding including the BOI being procured for assy / skid like motors etc.	
8	Specific conformation for document package in the event of an order (2 Hard copies & soft copy in PDF file) is to be given containing the following with proper linkages (i) Index Sheet (ii) MQP/RQP/Endorsement Sheet (As applicable) (iii) TCs identified by BHEL/ Customer for record for "CHP" / "W" and Verification portion ("V") as given in approved QP. (iv) Final inspection report + TC including Chemical + Mechanical + HT + NDT etc. (v) Third party Inspection report + TC (vi) Customer CHP/ MDCC (vii) Type test / Performance Test reports conducted (viii) Type test / Performance Test approval/ clearance obtained from BHEL/Customer (ix) BOM with As Build Drgs with actual make / rating used with BHEL/customer approved drawings.	
9	Packing / Seaworthy Packing shall be as per BHEL Packing schedule / approved drg / sketch. This shall be ensured to take care transit / handling / transhipment in Road / Sea / Air. Photographs are to be submitted for BHEL review before despatching the material as per contract conditions.	
10	Outsourcing of test facilities: Bidder shall ensure all the testing facilities in house. However If any of the test facilities are not available with successful bidder, then bidder shall ensure the same at NABL accredited third party lab / Govt / Govt Lab for major testing such as NDT, Electrical & Mechanical testing.	
11	Important Note: No deviation on the above requirement 01 to 10 is acceptable with respect to Quality Requirement and those offers not meeting these specific customer requirement is liable for rejection and hence the bidder shall submit all the required documentary evidences in the offer itself.	
12	## Necessarily to be filled up by the bidder at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirement being customer specific requirement.	
	VENDOR SIGN AND STAMP:	Vendor Name & Address:

	Annexure Q	
	Indent No: Enquiry no:	, , , , , , , , , , , , , , , , , , ,
Sl.No	BHEL / Customer Requirements	## Specific confirmations by the manufacturer (Acceptable/Not acceptable)
	Quality Plan Requirement: (If SQP is not given & Vendor QP applicable)	
	(i) MQP (Manufacturing Quality Plan) shall be submitted in attached format for BHEL/Customer review & approval. Our SQP/Typical MQP/ MQP Format is attached for guidance & use.	
	(ii) MQP shall invariably cover w.r.t Inward inspection including on Raw material Procurement, In process and Final inspection in elaborated way/details.	
	(iii) Bidder shall also to give specific confirmation that on need basis, their competent officials shall visit to BHEL / customer for finalization of Quality plan including test procedure/methodology during preaward / post award approval / detailed engineering in the event of an order.	
	(iv) No deviation on BHEL/Customer approved MQP/ SQP (In case BHEL SQP is provided) is acceptable.	
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Sl.No	BHEL / Customer Requirements	## Specific confirmations by the manufacturer (Acceptable/Not acceptable)
4	Stage Inspection during manufacturing Process: Stage Inspection during manufacturing shall be carried out as per approved quality plan and all necessary documents shall be provided for review, verification and clearance for further processing. This inspection call shall be given well in advance (at least 2 weeks before) to TPI/Bidder's own inspection agency to avoid delay in the manufacturing processes.	
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7	Painting shall be done strictly as per BHEL/Customer approved painting schedule / scheme only. Paint Thickness / Paint shade shall be ensured as per BHEL / Customer approved painting schedule / specification / data sheet etc. No deviation is acceptable unless otherwise accepted by BHEL/Customer in writing. Any conflict if any among BHEL / Customer approved painting schedule / Spec / data sheet etc. shall be brought to the notice of BHEL well in advance before proceeding including the BOI being procured for assy / skid like motors etc.	
8	Specific conformation for document package in the event of an order (2 Hard copies & soft copy in PDF file) is to be given containing the following with proper linkages (i) Index Sheet (ii) MQP/RQP/Endorsement Sheet (As applicable) (iii) TCs identified by BHEL/ Customer for record for "CHP" / "W" and Verification portion ("V") as given in approved QP. (iv) Final inspection report + TC including Chemical + Mechanical + HT + NDT etc. (v) Third party Inspection report + TC (vi) Customer CHP/ MDCC (vii) Type test / Performance Test reports conducted (viii) Type test / Performance Test approval/ clearance obtained from BHEL/Customer (ix) BOM with As Build Drgs with actual make / rating used with BHEL/customer approved drawings.	
	Packing / Seaworthy Packing shall be as per BHEL Packing schedule / approved drg / sketch. This shall be ensured to take care transit / handling / transhipment in Road / Sea / Air. Photographs are to be submitted for BHEL review before despatching the material as per contract conditions.	
10	Outsourcing of test facilities: Bidder shall ensure all the testing facilities in house. However If any of the test facilities are not available with successful bidder, then bidder shall ensure the same at NABL accredited third party lab / Govt / Govt Lab for major testing such as NDT, Electrical & Mechanical testing.	
11	Important Note: No deviation on the above requirement 01 to 10 is acceptable with respect to Quality Requirement and those offers not meeting these specific customer requirement is liable for rejection and hence the bidder shall submit all the required documentary evidences in the offer itself.	
12	## Necessarily to be filled up by the bidder at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirement being customer specific requirement.	
	VENDOR SIGN AND STAMP:	Vendor Name & Address:

Receipt No: 721976/2022/BAP-QA_MECH

Details of BOI's/ Sub Systems with respect to Main Items

Sl No.	Item/ Sub system Name	Quantity	Supplier Name	Place of Manufacturing
OEM (OP)	ICINAL EQUIDMENT MANUEL CO	PUDED) CEAL AND	D. CICN	
UEM (UKI	IGINAL EQUIPMENT MANUFACT	UKEK) SEAL AN	D SIGN.	

	PRIMER		FINISH		TOTAL
SURFACE		DFT		DFT	DFT IN
PREPARATION	PAINT	(µm	PAINT	(µm	(µm
		min.)		min.)	min.)

	intermediate paint pigmented with MIO/Tio2 DFT- 100µ		Shade: Light Blue, RAL 5012		
Blast Cleaning to SA 2 ½ (Near white metal) with surface profile	Primer: One coat of Epoxy resin based Epoxy Zinc phosphate primer to IS 13238 DFT- 100µ	100	Finish: One coat of Epoxy based finish paint to IS 14209; DFT- 75µ	75	300
40 – 60 μm	Intermediate: One coat of Two component epoxy based intermediate paint pigmented with MIO/Tio2 DFT- 100µ	100	Finish: One coat of acrylic aliphatic polyurethane paint to IS 13213 DFT-25µ Shade: Light Blue, RAL 5012	25	

Annexure-II

CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW

NTPO (BHE NTPO 01/PV Patra PAC MAII BHE SUB ADD	JECT: C PVUNL Patratu 3 x EL W.O no: R4R3, R4: C PVUNL CONTRAC VUNL-CS-9585-001-2/ atu FGD 3 x 800MW KAGE: FGD PACKA N CONTRACTOR: L - RANIPET CONTRACTOR (OE RESS: be filled by OEM	S3 and R4S4) CT NO: (NOA-SC for GE M) &	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Absorber Agitator NTPC PVUNL Patratu 3 x 800MW (BHEL W.O no: R4R3, R4S3 and R4S4)	LT MOTORS(IE3) - Up to 200KW used in Absorber Agitator Absorber Agitator Absorber Agitator NTPC PVUNL Patratu 3 x 800MW (BHEL W.O no: R4R3, R4S3 and R4S4)			
SI. NO.	DESCRIPTION	BHEL and I	Ultimate Customer - NTPC PVUNL (Na Corporation)., India Quality Requ		##Specific confirmations by the		
			corporation,,, maia quant, nequ		vendor		
	1		ITEM: LT Motors(IE3) - Up to	200KW			
01	Type Test Requirements	SL NO: (ultimate reports sl Motors to either sho should ha Inspection Thermal	No. Vendor shall submit the type test reports of all the type tests as listed in SL NO: 01 (D) below and carried out within 10 years from the data of ultimate Customer NTPC PVUNL bid opening dt 03.03.2017. These reports should be for the test conducted on the identical/similar LT Motors to those proposed to be supplied under this enquiry and test (s) either should have been conducted at an independent laboratory (or) should have been witnessed by BHEL/BHEL AIA (BHEL Appointed Inspection Agency) (or) Ultimate customer NTPC PVUNL (National Thermal Power Corporation) at respective LT Motor Manufacture of OEM vendor.				
		report as are not if acceptable the vendo BHEL eit (or) own Agency)	if vendor is not able to submit the sper above condition in 01 (A) (or) in the found to be meeting the specification to BHEL/BHEL AIA/ Ultimate Custor shall conduct all these tests at not ther at reputed third party lab (or) Glab in the presence of BHEL AIA (BH/BHEL /Ultimate client NTPC PVUNL/Ultimate Customer – NTPC PVUNL/Ultimate Customer – NTPC PVUNL/	the case of type test reports ion requirement and not tomer – NTPC PVUNL,, additional cost if any to tovernment approved lab HEL Appointed Inspection NL and submit the reports			
		by BHEL AIA (BHEL nate client NTPC PVUNL data sheet / BOM (Bill of etc.					

Annexure-II

CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW

NTPO (BHE NTPO 01/PV Patra PACI MAII BHE SUB ADD	JECT: C PVUNL Patratu 3 x EL W.O no: R4R3, R48 C PVUNL CONTRAC VUNL-CS-9585-001-2/ ttu FGD 3 x 800MW KAGE: FGD PACKAO N CONTRACTOR: L - RANIPET CONTRACTOR (OEI RESS: be filled by OEM	S3 and R4S4) TT NO: NOA-SC for GE M) & VENDOR)	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Absorber Agitator NTPC PVUNL Patratu 3 x 800MW (BHEL W.O no: R4R3, R4S3 and R4S4)	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:					
SI. NO.	DESCRIPTION	BHEL and U	Iltimate Customer - NTPC PVUNL (Na Corporation)., India Quality Requi		##Specific confirmations by the vendor				
ш		I	ITEM: LT Matars(IF3) - Un to	200KW	venuoi				
01	Type Test Requirement (Contd)	for above Standard)	ITEM: LT Motors(IE3) - Up to wing Type test reports to be submitted 50KW LT Motor as per relevant - BIS 325 / IEC 60034 etc uring of resistance of winding of	ed covering the following BIS (Bureau of Indian					
		(if ap ii. No lo speed	plicable) pad test at rated voltage to determine	input current, power and					
		iv. Full lev. Temp	oad test to determine efficiency power factor and slip perature rise test. entary excess /over load test						
		vii. High viii. Test f ix. Test o be lin maxi x. Over xi. Degre xii. Type proof E. The TCs/ page contr	voltage test for vibration severity of motor of noise levels of motor (Noise level for nited to 85dB(A) except for BFP mo mum limit shall be 90dB(A).) speed test see of Protection Tests (Minimum Ingratest reports for motors located in fuel enclosures as per BIS 2148/ IEC 6007 Fest reports shall also be given as PD rol through Email & Soft Copy (File si	ess Protection - IP 55). oil area having flame 79-1 IF file with index sheet & ize to less than 9MB).					
02	Quality Plan Requirement	and accord	nufacturing Quality Plan) is applicabled ingly Actual LT Motor Manufacture sustomer – NTPC PVUNL format for relatinate Customer - NTPC PVUNL.	shall submit the MQP in					
		PVUNL a validity, tl purposes s approval i	T Motor manufacture is having, ultim pproved MQP (Manufacturing Quality he same is applicable for these LT Mo subject to obtaining ultimate customer in the event of an order through endors as I no: 01 (c) below						
		filled up E approved	gly, LT Motor Manufacture & OEM su Endorsement sheet (copy attached) wit MQP with signature & seal in the ever EL for BHEL/Ultimate Customer – NT						

Annexure-II CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW

NTP(BHI NTP) 01/P' Patra PAC MAI BHE SUB ADD	JECT: C PVUNL Patratu 3 x EL W.O no: R4R3, R49 C PVUNL CONTRAC VUNL-CS-9585-001-2/ atu FGD 3 x 800MW KAGE: FGD PACKAO N CONTRACTOR: L - RANIPET CONTRACTOR (OEI RESS: be filled by OEM DESCRIPTION	S3 and R4S4) TT NO: NOA-SC for GE M) & VENDOR)	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Absorber Agitator NTPC PVUNL Patratu 3 x 800MW (BHEL W.O no: R4R3, R4S3 and R4S4) JItimate Customer - NTPC PVUNL (Na Corporation)., India Quality Requi	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id: ##Specific confirmations by the	
			ITEM: LT Motors(IE3) - Up to	200KW	vendor
02	Quality Plan Requirement contd	should sulformat) for	otor Manufacture / OEM vendor do bmit a fresh MQP to BHEL/NTPC PV or review & approval. (copy attached). Indicative MQP is attached for inf and a not final and binding on BHEL / U	bes not have MQP, they VUNL (in NTPC PVUNL & guidance purposes only	
03	Inspection Methodology to be adopted at Actual LT Motor Manufacture works by OEM vendor	a. All LT M inspection MQP & a Indian St Customer b. All Routin inspection MQP & a Indian St Customer c. BHEL AI NTPC PV including approved	Motors are to be inspected by BHEL a Agency) at LT Motor manufacture approved data sheet/drg/spec/ as per andard) - BIS 325 / IEC 60034 e -NTPC PVUNL The Tests are to be witnessed by BHEL a Agency) at LT Motor manufacture approved data sheet/drg/spec/ as per andard) - BIS 325 / IEC 60034 e -NTPC PVUNL A (BHEL authorized inspection Agency UNL will also ensure LT Motor to Degree of Protection Test Report MQP & approved data sheet / drg / s f Indian Standard) - BIS 325 / IEC	e works as per approved relevant BIS (Bureau of tc by BHEL / Ultimate L AIA (BHEL authorized e works as per approved relevant BIS (Bureau of tc by BHEL / Ultimate acy) / Ultimate Customertype tests reports review ts & acceptance as per spec / as per relevant BIS	
		Customer Supplier v Type test 55) as pe relevant B LT Motors up All Routine teare to be inspe (BHEL author per approved I (Bureau of Ind Test Reports v	IA (BHEL authorized inspection -NTPC PVUNL to witness / perform works and submit all the inspection or reports including Degree of Protection or approved MQP & approved data slass (Bureau of Indian Standard) - BIS to to 30KW - Inspection Categorization to 30KW - Inspection Categorization LT Motors are to be ensured by acted & witnessed by OEM Vendor / Frized inspection Agency) at LT Motor MQP & approved data sheet /drg / specifian Standard) - BIS 325 / IEC 60034 with Inspection report (IR) to be submit TPC PVUNL for review and to obtain	m inspection at LT Motor documents and routine & n Test Reports (IP heet / drg / spec / as per S 325 / IEC 60034 etc. OEM Vendor & same BHEL / BHEL AIA manufacture works as c/ as per relevant BIS etc and all the Routine tted for BHEL/Ultimate	

Annexure-II

CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW

	JECT: C PVUNL Patratu 3 x	800MW	CONTRACT QUALITY REQUIREMENTS (CQR) for	DOC.NO:	##Enquiry No:					
(BHF	EL W.O no: R4R3, R48	S3 and R4S4)	LT MOTORS(IE3) - Up to 200KW used in	BAP/QR/R4R3, R4S3 & R4S4/Patratu/LTM/Absorb er Agitator: 002	## OEM Supplier Name & Address:					
01/PV	C PVUNL CONTRAC VUNL-CS-9585-001-2/ ntu FGD 3 x 800MW		Absorber Agitator	Rev NO.: 00 PAGE : Page 4 of 6	##Offer reference:					
PAC	KAGE: FGD PACKA	GE.		DATE: 04.03.2020	##Date:					
MAII BHE	N CONTRACTOR: L - RANIPET		NTPC PVUNL Patratu 3 x 800MW		Contact Official Name: Mobile no:					
	CONTRACTOR (OE) RESS:	M) &	(BHEL W.O no: R4R3, R4S3 and R4S4)		Email id:					
(То	be filled by OEM	VENDOR)								
SI.	DESCRIPTION	BHEL and U	Jitimate Customer - NTPC PVUNL (Na	tional Thermal Power	##Specific					
NO.			Corporation)., India Quality Requi	rements	confirmations by the vendor					
			ITEM: LT Motors(IE3) - Up to							
03	Inspection Methodology		0KW to 50KW) – Inspection Categoriests on LT Motors are to be ensured							
	to be adopted		be inspected & witnessed by BH							
	at Actual LT	authorized in	nspection Agency) at LT Moto	or manufacture works						
	Motor Manufacture	including rev Reports (IP	iew of Type Test Reports and Deg 55) as per approved MQ							
	works by OEM	sheet/drg/spe	ec / as per relevant BIS (Bureau of	f Indian Standard) - BIS						
	vendorcontd		0034 etc and all the Routine Test be submitted for BHEL/Ultimate Cu							
			to obtain inspection and dispatch clea							
		A1 50771	Above 50KW and up to 200KW – Inspection Categorization: I							
			V and up to 200K W – Inspection (Type Tests if any on LT Motors ar							
		Vendor at Act	ual LT Motor Manufacture Works and	d same shall be offered to						
			L AIA (BHEL authorized inspection							
			PC PVUNL for inspection & witness stection Test Reports as per approved							
		Quality Plan	with endorsement sheet approved) / a	pproved data sheet / drg /						
			elevant BIS (Bureau of Indian Standard the Routine Test Reports with Insp							
			BHEL/Ultimate Customer – NTPC							
		obtain inspecti	on and dispatch clearance.							
			s / tests /review of documents / ins							
			nufacture by OEM /BHEL / BHEL A							
			gency)/ Ultimate Customer-NTPC and any cost implication arising out or							
		checks / tests i	ncluding for witnessing of any of the t	tests at Actual LT Motor						
			Vorks (or) at third party etc by BHEL. TPC PVUNL are in the scope of OEM							
		As such No ex	tra cost if any will be admissible and p							
		order and also	during execution of the contract.							
		Ultimate Cu	shall be dispatched without Bh stomer – NTPC PVUNL Insp							
		clearance.								
04	Painting		rement like paint shade and painting th							
	Requirements		e to be ensured by the OEM vendor for							
		(As applicable)	ate Customer -NTPC PVUNL approve	eu data sneet/drg/spec						
		, 11	,							

Annexure-II CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW

NTPC (BHE NTPC 01/PV Patra PACI MAII BHE SUB ADD	JECT: C PVUNL Patratu 3 x EL W.O no: R4R3, R49 C PVUNL CONTRAC VUNL-CS-9585-001-2/ ttu FGD 3 x 800MW KAGE: FGD PACKAN N CONTRACTOR: L - RANIPET CONTRACTOR (OE RESS: be filled by OEM DESCRIPTION	S3 and R4S4) TT NO: NOA-SC for GE M) & VENDOR)	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Absorber Agitator NTPC PVUNL Patratu 3 x 800MW (BHEL W.O no: R4R3, R4S3 and R4S4)	DOC.NO: BAP/QR/R4R3, R4S3 & R4S4/Patratu/LTM/Absorb er Agitator: 002 Rev NO.: 00 PAGE: Page 5 of 6 DATE: 04.03.2020	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id: ##Specific
NO.	DESCRIFTION	DilLE alla C	Corporation)., India Quality Requi	rements	confirmations by the vendor
			ITEM: LT Motors(IE3) - Up to	200KW	
05	Packing	packing if any	be as per Specification / Drg. / Data s to avoid any transit & handling dama	heet including sea worthy ages	
06	For Inspection call	Motor Manuinspection / witnessing if (QC-Proc)., I and Mr Kova Email id: kovimmediate re	all by OEM Vendor for LT Motor facture works to be raised for Ultimate Customer – NTPC PVUN any to be ensured / addressed to Mobile no: +91 9443006303., Emarathanan., DM (QC-Proc)., Mobile ak@bhel.in including for inspectisponse / resolution.	BHEL/BHEL AIA L including for type test Mr R Kesavan., DGM ail id: kesavan@bhel.in e no: +91 8903502628., on related activities for	
07	Document Package / Dossier	Specific confir copies + soft of proper linkage (i) Inde: (ii) MQE (iii) TCs (Cus as gi (iv) Final (v) BHE BHE (vi) Ultin Corporation) Clearance Cer (vii) Type appr Cust	rmation for Document Package in the copies in PDF file) is to be given cont is (.) is Sheet P/RQP/Endorsement sheet identified by BHEL/NTPC PVUNL for tomer Hold Point) Verification & Wit ven in MQP / RQP / MQP (as application Inspection Report + TC L AIA (BHEL Appointed Inspection ACL report + TC mate customer NTPC PVUNL (NCHP (Customer NTPC PVUNL (NCHP (Customer Hold Point) / MIt if if it is a conducted of the customer with over data sheet and BOM with actual omer approved drgs.	or record for "CHP" ness "W" portion ble). Agency) / fational Thermal Power DCC (Material Dispatch	
08	Important notes	PVUNL based Inspection Cate Inspection by N Customer – NT no:03 Inspection Cate	BHEL/BHEL AIA and also by Ultimate on MQP/RQP approved and as in sl no: egorization: II Main contractor (BHEL) / BHEL AIA be PC PVUNL approved MQP/RQP & bae egorization: III contractor (BHEL) to Ultimate Custome	03 ased on Ultimate sed on inspection as in sl	

Annexure-II

CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW

(For FOREIGN (OUTSIDE INDIA) OEM VENDOR ONLY)

NTPO 01/PV Patra PAC MAII BHE SUB ADD	NTPC PVUNL Patratu 3 x 800MW (BHEL W.O no: R4R3, R4S3 and R4S4) NTPC PVUNL CONTRACT NO: 01/PVUNL-CS-9585-001-2/NOA-SC for Patratu FGD 3 x 800MW PACKAGE: FGD PACKAGE MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM) & ADDRESS: (To be filled by OEM VENDOR)			S3 and R4S4) TT NO: NOA-SC for GE M) &	CONTRACT QUALITEREQUIREMENTS (CQI LT MOTORS(IE3) - Up to 20 in Absorber Agitat NTPC PVUNL Patra 800MW (BHEL W.O no: R4R3, R4S3 and	: (R4R3, R4S3 :ratu/LTM/Absor or: 002 : 00 Page 6 of 6 4.03.2020	b ## OEN Addres ##Offer ##Date	1 Supplier Names: r reference: t Official Name			
SI.	DESC	CRIPT	ION	BHEL and l	Jitimate Customer - NTPC F	VUNL (Na	tional Th	ermal Power		##Specific	
NO.					Corporation)., India Qua	ality Requi	irements		conf	irmations b	y the
										vendor	
	ı				ITEM: LT Motors(IF			, .	c I		
					ication for conducting check						
					ts at Actual LT Motor Manufacture Works by BHEL / BHEL e Customer – NTPC PVUNL is in the scope of OEM Supplier						
					extra cost if any will be admissible in the event of an order and ecution of the contract.						
09	Moto	r det	ails	also during ex	ceution of the contract.						
0)	Vende	or sha	all furn	ish following L atu 3 x 800 – FGD	Γ Motor details for the Agita Project:-	ators appli					
	S	. No			Agitators	D (1		Γ Motor for the A			
						Kating	(in kW)	Quantity	Proposed I Country		
		1	Absort	per Agitators					Country	or origin	
		2	Other	LT Motors involved	in the system (if any)						
		3									
		4									
		5									
		7									
		8									
	9										
		10									

OEM 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 – NTPC PVUNL (National Thermal Power Corporation Limited) specific requirements.

ENDORSEMENT SHEET FOR OP REFERENCE / STANDARD / FIELD QUALITY PLAN (RQP / SQP/RFQP/SFQP) TO BE FILLED IN BY SUPPLIER AT TIME OF SUBMISSION To be filled in by NTPC NTPC PVUNL Patratu 3 x 800 MW FGD Project (BHEL W.O no: R4R3, R4S3 and PROJECT NAME REVIEW & ENDORSEMENT BY NTPC PROJECT SPECIFIC OP NUMBER ALLOTTED 01/PVUNL-CS-9585-001-2/NOA-SC for Patratu FGD (3 x 800MW) CONTRACT NO.: QP NO: MAIN SUPPLIER M/S,BHEL, RANIPET, TAMIL NADU., INDIA **REV. NO.: 00 DT:** MANUFACTURER WORKS & ADDRESS (TO BE FILLED BY OEM/LT MOTOR SUPPLIER LT MOTOR(IE3) - ABSORBER AGITATORS ITEM /EQUIPMENT / SYSTEM/ SUB-SYSTEM DETAILS i.e. MODEL TYPE/SIZE/RATING etc. APPROVED OP NO.: ROP/SOP/RFOP/SFOP (TO BE FILLED BY OEM/LT MOTOR SUPPLIER (TICK APPLICABLE) Confirmation by Main Supplier (TICK WHICHEVER APPLICABLE) The MQP/RQP/SQP is endorsed for this project I. That the item/component is identical to that considered for SQP approval. \vee without any change II. That there are minor changes in the item/ component with respect to that considered for MQP/RQP/SQP approval, however the same do not affect the contents of MOP/ROP/SOP III. That there are minor changes in the item/ component with respect to that considered for MQP/RQP/SQP approval, however The SQP is endorsed for this project with changes the same affect the MQP/RQP/SQP slightly, as indicated below / in attached sheet. as indicated. DISTRIBUTION OF ENDORSEMENT OF A) MOP/ROP/SOP: 1. MAIN SUPPLIER (WITH A COPY OF MOP/ROP/SOP) 2. MANUFACTURER 3. RIO 4. COA-SPL 5. CQA-0/C B) RFQP/SFQP: 1. MAIN SUPPLIER (with a copy of MQP/RQP/SQP 2. MANUFACTURER 3. NTPC FQA (with a copy of MQP/RQP/SQP 4. NTPC Erection (with a copy of MQP/RQP/SQP 5. CQA-SPL 6. CQA-0/C

FORMAT NO.: QS-01-QAI-P-10/ F5-R0 1/1 ENGG. DIV./ QA&I

DATE:

NTPC (Reviewed /Approved by/ Date & Seal)

(TO BE FILLED BY OEM / LT MOTOR SUPPLIER

SIGN.: (Manufacturer)

SIGN.: (Main Supplier)

DATE:

BHEL Bap/ Ranipet / Tamil Nadu India		ANIPET / L NADU LT MOTOR				FACTURING QU (Up to TO 200	REV:NO:00 DATE: 04.03.2021 Page:			ORBER AGITATOR :001		
S1.No.	COMPONET/A SSEMBLY/OPE RATION/TEST S		CLASS	TYPE OF CHECK	QUANUTM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE STANDARD	FORMAT OF REC	D	AGENCY M	BHEL/ BHEL AIA	REMARKS
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11		12.
	MING INSPCE											
1.1	copper conductor(Dual coated)MM	Overall diameter Bare conductor diameter	Major Major	Mechanical Mechanical	1 sample/lot 1 sample/lot	IS 13730 1993 Part 13 / IEC 60317-0-1-2008 (As applicable) BHEL / NTPC Spec & Apprd Datasheet	IEC 60317-0-1 2008 BHEL / NTPC Spec & Apprd Datasheet	Plant format Plant format		P P	V	
		3.BDV test 4.Elongation	Major Major	Electrical Mechanical	1 sample/lot 1 sample/lot	do	do	Plant format Plant format		P P	V	
		5.Continuity (insulatio n)	Major	Electrical	1 sample/lot	do	do	Insp report/ Supplier TC		Р	V	
		6.Tan Delta (If applicable)	Major	Electrical	1 sample/lot	do	do	Insp report/ Supplier TC		P	V	EC gr purity: -99.6%
1.2	Aluminum Ingots	1.Chemical composition	Major	Chemical	1 sample/lot	do	do	Supplier Tc		P	V	V1 /
1.3	FAN	1.Diameter (ID&OD)	Major	Mechanical	1 sample/lot	do	do	Inspection Report		P	V	
1.4	Bearings (SKF OR FAG)	1.Type & Make	Major	Visual	100%	do	do	Inspection Record		P	V	
		2.Dimensions - ID,OD&width	Major	Mechanical	1 sample/lot	do	do	Inspection Record		P	V	
1.5	Terminal Block	1.Dimensions	Major	Mechanical	Plant std.	do	do	Inspection Report		P	V	
		2.Proof voltage test	Major	Electrical	Plant std.	do	do	Inspection Report		P	V	

	OEM SUPPLIER				MANU	FACTURING QU	IALITY PLAN FO	R	MQP:E:LTN REV:NO:00		FGD ABS	SORBER AGITATOR :001	
		To be fill	ed by	L1	MOTOR	(Up to TO 200)	KW) - FGD Appli	cation	DATE: 04.03.2021				
	BHEL	OEM Supplier			, , , , , , , , , , , , , , , , , , , ,								
	P/ RANIPET / Amil Nadu	LT MOT	OR										
	INDIA	Manufac											
		To be filled I											
		Suppli											
S1.No	. COMPONET/A		CLASS	TYPE OF		REFERENCE DOCUMENT	ACCEPTANCE STANDARD	FORMAT OF REC		AGENCY		REMARKS	
	SSEMBLY/OPE RATION/TEST S	IKISTIC		CHECK	CHECK				D	М	BHEL/ Bhel aia		
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.		12.	
	OCESS INSP	CETIONS:											
2.1	Stator core	1.Core length dia	Major	Mechanical	100%	do	do	Inspection Record		Р	V		
		2.Core locking	Major	Visual	100%	do	do	Inspection Record		P	٧		
		3. Rigidity of core	Major	Mechanical	100%	do	do	Inspection Record		P	V		
2.2	Die cast rotor	1.Core length	Major	Mechanical	100%	do	do	Inspection Record		P	V		
		2.Blow holes	Major	Mechanical	100%	do	do	Inspection Record		P	V		
2.3	Wound stator (if applicable)	1.Resistance	Major	Electrical	100%	do	do	Inspection Record		P	V		
		2.H.V.Test	Major	Electrical	100%	do	do	Inspection Record		P	V		
		3.Insulation resisitance	Major	Electrical	100%	do	do	Inspection Record		P	V		
2.4	Final Assembiy	1.Completeness	Major	Visual	100%	do	do	Inspection Record		P	V		
		2.Runout in case of flanged motors	Major	Mechanical	100%	do	do	Inspection Record		P	V		
		3.Mounting dimensions	Major	Mechanical	100%	do	do	Inspection Record		P	V		

		OEM SUPP	PLIER		MANU	FACTURING QU	ALITY PLAN FO	R	MQP:E:LTI	M:PATRATU :	FGD ABS	SORBER AGITATOR :001	
		To be fille	d hv	1					REV:NO:00				
			•	LI	LT MOTOR (Up to TO 200KW) - FGD Application					DATE: 04.03.2021			
1	BHEL	OEM Sup	plier		P								
	P/ RANIPET /												
T/	AMIL NADU	LT MOT	<u> OR</u>										
	INDIA <u>Manufacture</u>												
		To be filled b	y OEM										
		Supplie											
S1.No	. COMPONET/A			TYPE OF		REFERENCE DOCUMENT	ACCEPTANCE STANDARD	FORMAT OF REC		AGENCY		REMARKS	
	SSEMBLY/OPE	RISTIC		CHECK	CHECK				D	M	BHEL/		
	RATION/TEST S										BHEL		
											AIA		
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.		12.	
		N AND TESTING											
3.1	Routine Test	Resistance Measurement on	Major	Electrical		BHEL / NTPC Spec, GA Drawing & Apprd Datasheet and	BHEL / NTPC Spec, GA Drawing	Inspection Record		Р	W		
		winding & space				IS/IEC 60034 (As applicable)	IS/IEC 60034 (As applicable)						
		heater				, ,,	, , ,						
		2.HV Test 3.Phase sequence &	Major	Electrical	100% 100%	do	do	Inspection Record		P P	W W		
		direction of rotation	wajor	Electrical	100%	00	00	Inspection Record		٢	W		
		4.No load run test	Major	Electrical	100%	do	do	Inspection Record		P	W		
		5. Vibration test	Major	Mechanical		do	do	Inspection Record		P	W		
		6.Name plate recheck	Major	Visual	100%	do	do	Inspection Record		Р	W		
		7.Paint shade	Maior	Visual &	100%	do	do	Inspection Record		Р	W		
		thickness & adhesion	-7-	Measurement				1					
			Major	Mechanical	100%	do	-do-	Inspection Record		P	W		
		dimensions											

	BHEL 9/ Ranipet / Mil Nadu India	OEM SUPP To be fille OEM Sup LT MOT Manufac To be filled b	ed by plier OR ture	LT			JALITY PLAN FO KW) - FGD Appli	n cation	MQP:E:LTM REV:NO:00 DATE: 04.0: Page :		FGD ABS	SORBER AGITATOR :001
	COMPONET/A SSEMBLY/OPE RATION/TEST S	1	CLASS	TYPE OF CHECK	QUANUTM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE STANDARD	FORMAT OF REC	D	AGENCY M	BHEL/ BHEL AIA	REMARKS
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.		12.
3.2	TYPE TESTS ### Preservation and Packing	1.Completeness 2.Motors covered with polythene sheets 3.Packing	Major Major Major	Review Visual	100%	do	-do- -do-	Inspection Record Inspection Record Inspection Record		P P	VV	

TYPE TEST REQUIREMENTS FOR LT MOTOR INCLUDING DEGREE OF PROTECTION TEST REPORT (IP 55)

BHEL/BHEL AIA (Authorised Inspection Agency) shall review the Identical design type test report during including degree of Protection Test report (IP 55) for acceptance in line with BHEL/Ultimate Customer - NTPC approved Data sheet/Drg/Spec for LT Motor rating up to 50KW and BHEL/Ultimate Customer NTPC approved type test report for LT Motor rating more than 50KW and up to 200KW. If not available for Similar / Identical Design of any of the LT Motor motor, then OEM / LT Motor Manufacture shall conduct all these type tests at Third party lab / Government Approved Lab / Own lab in presence of BHEL/BHEL AIA / without any cost implication to BHEL/Ultimate Customer - NTPC within reasonable time.

- 1. Measurement of Resistence of Stator
- 2. No Load test at Rated Voltage
- 3,. Pull out test
- 4.Temperature Rise Test
- 5.Momentary Excees Torque Torque Test
- 6.High Voltage Test
- 7.Test for Vibration Severity
- 8.Test for Noise Level Measurement
- 9. Over Speed Test
- 10. Degree of Protection TC (IP 55)

LEGEND: OEM = Orgional Equipement Supplier M = LT Motor Manufacture -

BHEL AIA = BHEL AUTHORISED INSPECTION AGENCY GA Drawing : General Arrangment Drawing

NTPC - NATIONAL THERMAL POWER CORPORATION (Ultimate Customer)

OEM SUPPLIER: (To be Filled up by OEM Supplier)
LT MOTOR Manufacture: (To be Filled up by OEM Supplier)

OEM SUPPLIER WITH OEM MFGR.'s LOGO (TO BE FILLED BY OEM SUPPLIER) NAME AND ADDRESS (TO BE FILLED BY OEM / LT MOTOR MANUFACTUR			LLED BY OEM/	ITEM: LT MOTOR(IE3) UP					OUALITY PI .: ABSORBER A OTOR:001 O.: 00 OF	PROJECT: NTPC PVUNL Patratu 3 x 800MW (BHEL W.O no: R4R3, R4S3 and R4S4) FGD PACKAGE NTPC PVUNL CONTRACT NO: 01/PVUNL-CS-9585-001-2/NOA-SC for Patratu FGD (3 x 800 MW) MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM) & ADDRESS: (TO BE FILLED BY OEM SUPPLIER)							
SL. NO	COMPONEM OPERATIO		CHARACTERIST	TCS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		A	AGENCY		REMARKS	
1	1		3 <mark>.</mark>		<mark>4.</mark>	<u>5.</u>	M	C/N 6.	7.	8.	9.	D*	M **	C * 10	N	11.	
OEM MANUFACTURER/ LT MOTOR SUPPLIER SIGNATURE VERNATIONS MAIN (BHEL) SUPPLIER SUPPLIER		(BHEL) ESS ** C: P:	SENTIALL M: OEM MAIN SUI PERFORM	.Y INCLUD MANUFAC PPLIER – B I W : WITN	ED BY SUPPL CTURER/LT M SHEL/BHEL AI	JER IN (IOTOR S IA , N: VERIFI	QA DOCU UB-SUPP NTPC CATION.	AS APPROPRIATE,	FOR NTPC	DOC. NO.:					CAT		
	SIGN	ATURE				. = / •				USE	REVIEWED	BY	AF	PROV	ED BY	APPROVAL SEAL	

FORMAT NO.: QS-01-QAI-P-09/F1-R1 1/1 ENGG, DIV./QA&I



Annexure-I CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW (FOR INDIGENOUS OEM VENDOR ONLY)

CONTRACT QUALITY PROJECT: ##Enquiry No: DOC.NO: NTPC PVUNL Patratu 3 x 800MW REQUIREMENTS (COR) for BAP/OR/R4R3, R4S3 & (BHEL W.O no: R4R3, R4S3 and R4S4) LT MOTORS(IE3) - Up to 200KW used ## OEM Supplier Name & R4S4/Patratu/LTM/ in Address Absorber Agitator: 001 NTPC PVUNL CONTRACT NO: Absorber Agitator 01/PVUNL-CS-9585-001-2/NOA-SC for Rev NO.: 00 ##Offer reference: Patratu FGD 3 x 800 MW PAGE: Page 1 of 5 DATE: 04.03.2021 ##Date: PACKAGE: FGD PACKAGE NTPC PVUNL Patratu 3 x MAIN CONTRACTOR: 800MW **Contact Official Name: BHEL - RANIPET** (BHEL W.O no: R4R3, R4S3 and R4S4) Mobile no: SUB CONTRACTOR (OEM) & Email id: ADDRESS: (To be filled by OEM VENDOR) SI. **DESCRIPTION BHEL and Ultimate Customer - NTPC PVUNL (National Thermal Power** ##Specific confirmations NO. Corporation) PVUNL., India Quality Requirements by the vendor ITEM: LT Motors(IE3) Up to 200KW **Type Test** Vendor shall submit the type test reports of all the type tests as listed Requirements in SL NO: 01 (D) below and carried out within 10 years from the data of ultimate NTPC PVUNL bid opening dt 03.03.2017. These reports should be for the test conducted on the identical/similar LT Motors to those proposed to be supplied under this enquiry and test (s) either should have been conducted at an independent laboratory (or) should have been witnessed by BHEL AIA (BHEL Appointed Inspection Agency) / BHEL (or) Ultimate client NTPC PVUNL at respective LT Motor Manufacture of OEM vendor. B. However, if vendor is not able to submit the similar / identical type test report as per above condition (or) in the case of type test reports are not found to be meeting the specification requirement, the vendor shall conduct all the tests at no additional cost to BHEL either at third party lab (or) own lab in the presence of BHEL AIA (BHEL Appointed Inspection Agency) / BHEL /Ultimate client NTPC PVUNL and submit the reports for review & approval. Type Test reports review and approval by BHEL AIA (BHEL Appointed Inspection Agency) / BHEL / Ultimate client NTPC PVUNL is must in line with NTPC PVUNL approved data sheet / BOM/GA Drawing etc. The following Type test reports to be submitted covering the following for above 50KW LT Motor as per relevant BIS (Bureau of Indian Standard) - BIS 325 / IEC 60034 etc i. Measuring of resistance of winding of stator and wound rotor (if applicable) No load test at rated voltage to determine input current, power ii. and speed. Open circuit voltage ratio of wound rotor motor (in case slip ring iv Full load test to determine efficiency power factor and slip Temperature rise test. v. vi. Momentary excess load test High voltage test vii. viii. Test for vibration severity of motor Test of noise levels of motor (Noise level for all the motors ix. shall be limited to 85dB(A) except for BFP motor for which the maximum limit shall be 90dB(A).) Over speed test х. xi. Degree of Protection Tests (Minimum Ingress Protection - IP 55). xii. Type test reports for motors located in fuel oil area having flame proof enclosures as per BIS 2148/ IEC 60079-1

Annexure-I CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW (For INDIGENOUS OEM VENDOR ONLY)

NTPO (BHI NTPO) 1/PV Patra PAC MAI BHE SUB ADD	JECT: C PVUNL Patratu 3 x EL W.O no: R4R3, R48 C PVUNL CONTRAC VUNL-CS-9585-001-2/ ttu FGD 3 x 800 MW KAGE: FGD PACKAO N CONTRACTOR: L - RANIPET CONTRACTOR (OEI RESS: be filled by OEM	S3 and R4S4) TT NO: NOA-SC for GE M) &	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Absorber Agitator NTPC PVUNL Patratu 3 x 800MW (BHEL W.O no: R4R3, R4S3 and R4S4)	EQUIREMENTS (CQR) for DTORS(IE3) - Up to 200KW used in Absorber Agitator Absorber Agitator PC PVUNL Patratu 3 x 800MW			
SI. NO.	DESCRIPTION		 timate Customer - NTPC PVUNL (Nati rporation) PVUNL., India Quality Rec		##Specific confirmations by the vendor		
			ITEM: LT Motors(IE3) Up to	200KW	•		
01	Type Test Requirement Contd		/ Type Test reports shall also be gi et & page control through Email & S	iven as PDF file with			
02	Quality Plan Requirement	2. RQP these Manual ultim 3. If any NTP / RC same to approximate sheet of the same	or MQP is applicable for these LT /MQP (Manufacturing Quality Plate LT Motors and accordingly ufacture and OEM shall submit atte customer – NTPC PVUNL form y of LT Motor manufacture is having C PVUNL approved MQP (Manufacture) (Manufactur	an) is applicable for Actual LT Motor the RQP/MQP in nat. g, ultimate customer cturing Quality Plan) having validity, the or inspection subject PC PVUNL formal grough endorsement w OEM supplier shall eet (copy attached) /RQP with signature r from BHEL.			
03	BHEL / Ultimate Customer – NTPC PVUNL approved vendors	LT Motors Customer - I this specific r KEC CGL SIEN ABB, 200k BBL/ Mara Jyoth	are to be procured only from NTPC PVUNL approved vendors requirement is acceptable. / Bengaluru (Up to 200KW) & Hub/Ahemednagar (Up to 200KW) //ENS/Mumbai (Up to 200KW) //Faridabad (Up to 55KW) and (W) //Mumbai (Up to 200KW) //F Bengaluru (Up to 15KW) //Ithon / Kolkatta (Up to 200KW) // Vadodara (Up to 200KW) // In Hydralics Private Limited (LHP				

Annexure-I CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW (FOR INDIGENOUS OEM VENDOR ONLY)

CONTRACT QUALITY ##Enquiry No: PROJECT: DOC.NO: NTPC PVUNL Patratu 3 x 800MW REQUIREMENTS (COR) for BAP/OR/R4R3, R4S3 & (BHEL W.O no: R4R3, R4S3 and R4S4) LT MOTORS(IE3) - Up to 200KW used ## OEM Supplier Name & R4S4/Patratu/LTM/ in Address Absorber Agitator: 001 NTPC PVUNL CONTRACT NO: Absorber Agitator 01/PVUNL-CS-9585-001-2/NOA-SC for Rev NO.: 00 ##Offer reference: Patratu FGD 3 x 800 MW PAGE: Page 3 of 5 DATE: 04.03.2021 ##Date: PACKAGE: FGD PACKAGE NTPC PVUNL Patratu 3 x MAIN CONTRACTOR: 200MW **Contact Official Name: BHEL - RANIPET** (BHEL W.O no: R4R3, R4S3 and R4S4) Mobile no: SUB CONTRACTOR (OEM) & Email id: ADDRESS: (To be filled by OEM VENDOR) SI. **DESCRIPTION BHEL and Ultimate Customer - NTPC PVUNL (National Thermal Power** ##Specific confirmations NO. Corporation) PVUNL., India Quality Requirements by the vendor ITEM: LT Motors(IE3) Up to 200KW Inspection LT Motors up to 30KW - Inspection Categorization: III Methodology to be adopted All Routine tests on LT Motors are to be ensured by OEM Vendor & at Actual LT same are to be inspected & witnessed by OEM Vendor / BHEL / BHEL AIA (BHEL authorized inspection Agency) at LT Motor manufacture Motor Manufacture works as per approved MQP & approved data sheet / drg / spec/ as per works by OEM relevant BIS (Bureau of Indian Standard) - BIS 325 / IEC 60034 etc and all the Routine Test Reports with Inspection report (IR) to be submitted vendor for BHEL/Ultimate Customer - NTPC PVUNL for review and to obtain inspection and dispatch clearance. LT Motors (30KW to 50KW) – Inspection Categorization: II All Routine Tests on LT Motors are to be ensured by OEM 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 - NTPC PVUNL for review and to obtain inspection and dispatch clearance. Above 50KW and up to 200KW - Inspection Categorization: I All Routine & Type Tests if any on LT Motors are to be ensured by OEM Vendor and same shall be offered to BHEL/ BHEL AIA (BHEL authorized inspection Agency) / Ultimate Customer-NTPC PVUNL 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 - NTPC PVUNL for review and to obtain inspection and dispatch clearance.

Annexure-I CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW (For INDIGENOUS OEM VENDOR ONLY)

PRO	JECT:		CONTRACT QUALITY	DOC.NO:	##Enquiry No:
	C PVUNL Patratu 3 x		REQUIREMENTS (CQR) for	BAP/QR/R4R3, R4S3 &	
(BHI	EL W.O no: R4R3, R4	83 and R4S4)	LT MOTORS(IE3) - Up to 200KW used	R4S4/Patratu/LTM/	## OEM Supplier Name &
NTP	C PVUNL CONTRAC	T NO:	<u>III</u> A la a a la a a . A a . 4 a 4 a a	Absorber Agitator: 001	Address:
	VUNL-CS-9585-001-2/		Absorber Agitator	Rev NO.: 00	##Offer reference:
Patra	atu FGD 3 x 800 MW			PAGE: Page 4 of 5 DATE: 04.03.2021	##Offer reference.
210	TI OF FOR BLOTT	##Date:			
	KAGE: FGD PACKA N CONTRACTOR:				
	L - RANIPET		800MW		Contact Official Name:
	CONTRACTOR (OE)	M) &	(BHEL W.O no: R4R3, R4S3 and R4S4)		Mobile no:
ADD	RESS:				Email id:
(TD	I CH II OEM	VENDOD)			
(10	be filled by OEM	VENDOR)			
SI.	DESCRIPTION	PUEL and Life	l timate Customer - NTPC PVUNL (Nati	onal Thormal Dower	##Specific confirmations
NO.	DESCRIPTION		•		by the vendor
NO.		Co	rporation) PVUNL., India Quality Rec	*	by the vendor
			ITEM: LT Motors(IE3) Up to		· · · · · · · · · · · · · · · · · · ·
04	Inspection		AIA (BHEL authorized inspection		
	Methodology		TPC PVUNL to witness / perform		
	to be adopted		er works and submit all the inspect		
	at Actual LT		e test reports including Degree of		
	Motor	Reports	(IP 55) as per approved MQP &		
	Manufacture		as per relevant BIS (Bureau of Ind	ian Standard) - BIS	
	works by OEM		IEC 60034 etc.		
	vendor		shall be dispatched without BHE		
	Contd	Ultimate Cu	stomer – NTPC PVUNL Inspe	ction and dispatch	
05	Painting	Painting require of coats if any			
	Requirements				
		sheet/drg/spe			
06	Packing		be as per Specification / Drg. / Da		
		worthy packin	g if any to avoid any transit & handling	ng damages .	
07	For Inspection	Inspection ca	III by OEM Vendor for LT Motor ins	enaction at Actual I T	
07	call		facture works to be raised for	BHEL/BHEL AIA	
	Can		Iltimate Customer – NTPC PVUN		
			ng if any to be ensured / addressed		
			Proc)., Mobile no: +91 94430		
			el.in and Mr Kovarathanan., DM		
			03502628., Email id: kovak@bh		
			lated activities for immediate respo		
		mopeolion le	ialed activities for infinediate respo	การษ / าษรบเนเเบา.	
08	Document	Specific confi	rmation for Document Package in the	e event of an order (3	
00	Package /		- soft copies in PDf file) is to be		
	Dossier		proper linkages (.)	given containing the	
	Possici				
			P/RQP/Endorsement sheet identified by BHEL/NTPC PVUNL for	or record for "CIID"	
			stomer Hold Point) Verification & Wil		
			ven in MQP / RQP / MQP (as applica	uic).	
			Inspection Report + TC	A comov) /	
			L AIA (BHEL Appointed Inspection		
			EL report + TC		
			nate customer NTPC PVUNL (Nat	ional Inermal Power	
		Corporation)	(Customan Hold Deint) /MDCC (M.	tomial Dismotal	
			(Customer Hold Point) / MDCC (Ma	иепат Dispatch	
1		Clea	rance Certificate)		

PROJECT:

Annexure-I CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) Up to 200KW (For INDIGENOUS OEM VENDOR ONLY)

CONTRACT QUALITY

NTP(BHI NTP) 01/P' Patra PAC MAI BHE SUB ADD	C PVUN VUNL-C atu FGD KAGE: N CONT L - RAN CONTE DRESS:	no: R4 [L CO] [S-958: 3 x 80 FGD H FRACT [IPET]	R3, R48 NTRAC 5-001-2/ 0 MW PACKAO FOR:	S3 and R4S4) T NO: NOA-SC for GE	CONTRACT QUALL REQUIREMENTS (CQ LT MOTORS(IE3) - Up to 20 in Absorber Agita NTPC PVUNL Patra 800MW (BHEL W.O no: R4R3, R4S3 :	eR) for 00KW used ator atu 3 x	R4S4/Par Absorber Rev NO. PAGE:	/R4R3, R4S3 & tratu/LTM/ r Agitator: 001	##Enquiry N ## OEM Sup Address: ##Offer refe ##Date: Contact Offi Mobile no: Email id:	plier Name & rence:
SI. NO.	DES	CRIPT	ION		timate Customer - NTPC Pr rporation) PVUNL., India	-				c confirmations the vendor
					ITEM: LT Motors(1	E3) Up to 2	200KW		1	
08	Docu Packa Dossi	age /		appr	e test reports conducted/sub oved data sheet and BOM comer approved drgs.	mitted with	approva			
10	Inspection Cate Inspection by M Customer – NT sl no:04 Inspection Cate COC by Main based on inspection Any cost im witnessing of BHEL / BHEL of OEM Supp				BHEL/BHEL AIA and also be on MQP/RQP approved and egorization: II Main contractor (BHEL) / B PC PVUNL approved MQI	HEL AIA ba P/RQP & bas ate Custome checks / LT Motor M r - NTPC P t if any wil	er – NTPO tests i fanufacti VUNL is l be adm	Itimate spection as in C PVUNL ncluding for ure Works by in the scope		
10		or sha	ıll furn	ish following L' atu 3 x 800 MW – I	Γ Motor details for the Agi FGD Project:-	tators applic	cable for	this enquiry.		
	S. No				Agitator	Proposed Make				
	<u> </u>	1		per Agitator	: 4h (:f)					
	-	2	Other I	L1 motors involved	in the system (if any)					
	3 4									
	-	5				+		+		
	-	6								
	-	7								
	-	8								
		9								
		10								
						•		OF		•

OEM 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 <u>considered w.r.t Quality Requirements against LT Motors being BHEL/ultimate customer – NTPC PVUNL (National National Na</u> Thermal Power Corporation Limited) specific requirements.

	ENDORSEMENT SHEET FOR QP		
REFER	ENCE / STANDARD / FIELD QUALITY PLAN (RQP / SQP/R	P.F.QP/SFQP)	
TO BE FILLED IN BY SUPPLIER AT T	TIME OF SUBMISSION	एनर्सवीसी NTPC	To be filled in by NTPC
PROJECT NAME	NTPC PVUNL Patratu 3 x 800 MW FGD Project (BHEL W.O no: R4R3, R4S3 and R4S4)	REVIEW & EN	<u>DORSEMENT BY NTPC</u> PROJECT NUMBER ALLOTTED
CONTRACT NO.:	01/PVUNL-CS-9585-001-2/NOA-SC for Patratu FGD (3 x 800MW)	QP NO:	
MAIN SUPPLIER	M/S.BHEL, RANIPET, TAMIL NADU., INDIA		
MANUFACTURER WORKS & ADDRESS ITEM /EQUIPMENT / SYSTEM/	(TO BE FILLED BY OEM/LT MOTOR SUPPLIER LT MOTOR(IE3) - ABSORBER AGITATORS	REV. NO.: 00	DT:
SUB-SYSTEM DETAILS i.e. MODEL TYPE/SIZE/RATING etc.	,		
APPROVED QP NO.; RQP/SQP/RFQP/SFQP	(TO BE FILLED BY OEM/LT MOTOR SUPPLIER		
Confirmation by Main Supplier (TICK WHICHE	VER APPLICABLE)	(TICK APPLICABL	<u>'</u>
I. That the item/ component is identical to that co II. That there are minor changes in the item/ con the same do not affect the contents of MQP/RQP/	ponent with respect to that considered for MQP/RQP/SQP approval, however	The MQP/RQP without any cha	/SQP is endorsed for this project ange
	nponent with respect to that considered for MQP/RQP/SQP approval, however	The SOP is end	lorsed for this project with changes
the same affect the MQP/RQP/SQP slightly, as in		as indicated.	1 0 0
		A) MQP/RQP, I. MAIN SUPPLI MQP/RQP/SQP 2. MANUFACTU 3. RIO 4. CQA-SPL 5. CQA-O/C B) RFQP/SFQI 1. MAIN SUPPLI 2. MANUFACTU 3. NTPC FQA (w	ER (WITH A COPY OF) RER : ER (with a copy of MQP/RQP/SQP
SIGN.: (Main Supplier) DATE:	(TO BE FILLED BY OEM / LT MOTOR SUPPLIER SIGN.: (Manufacturer) DATE:	NTPC (Review	ed /Approved by/ Date & Seal)

OEM SUPPLIER WITH OEM MFGR.'s LOGO (TO BE FILLED BY OEM SUPPLIER) LT MOTOR MANUFACTUR NAME AND ADDRESS (TO BE FILLED BY OEM / LT MOTOR MANUFACTUR			ITEM; LT MOTOR(IE3) UP QP NO.; ABSORBER					PROJECT: NTPC PVUNL Patratu 3 x 8(BHEL W.O no: R4R3, R4S3 and R4S4) FGD PACKAGE NTPC PVUNL CONTRACT NO: 01/PVUNL-CS-9585-001-2/NOA-SC for 1 (3 x 800 MW) MAIN CONTRACTOR: BHEL - RANII SUB CONTRACTOR (OEM) & ADDR (TO BE FILLED BY OEM SUPPLIER)					NIPET DRESS:
	LAS	HARACTERISTICS .	ASS TYPE OF CHECK		QUANTUM OF CHECK DOCUMENT OF CHECK		ACCEPTANC NORMS	FORMAT OF RECORD		AGENCY M C N		EY N	REMARKS
	<mark>4.</mark>	3.	<mark>4. 5.</mark>		<mark>6.</mark>	<mark>7.</mark>	<mark>8.</mark>	<u>9.</u>	D*	***		0.	<mark>11.</mark>
	LEGEND: * RECORDS, INDENTIFIED WITH "TICK" $()$ SHALL BE							DOC. NO.:				REV	CAT
OEM MANUFACTURER/ LT MOTOR SUPPLIER SUPPLIER SIGNATURE				LEGEND: * RECORDS, INDENTIFIED WITH "TICK" (Y) 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"						APPROVED BY			
	INCI ANU LIER W : V	ESSENTIALLY ** M: OEM M C: MAIN SUP! P: PERFORM	CLUDED BY SUPP. NUFACTURER/LT N ER – BHEL/BHEL A : WITNESS AND V	LIER IN MOTOR S JIA , N: V: VERIF	QA DOCU SUB-SUPP NTPC FICATION.	MENTATION. LIER AS APPROPRIATE,	FOR NTPC USE	DOC. NO.:					REV

एनरीपीसी NTRC