बीए	च ई एन				MANUFACT	URING (QUALI	TY PLAN		PROJECT:					
H	HEL .	Manufa	cturer Name and A	ddress:			ITEM:	AGITATORS	3	_	KAGE: FGD PACKAGE				
							QP N	0: FGD:704, RE	EV:00	CUST MAIN (-	RACT	TOR:	BHFI	
Main c	contractor						DT: 26	6.10.2020 Pa	age 1 of 4				• • • • • • • • • • • • • • • • • • • •	5	-
SL.	COMPONE	ENT &	CHARATERISTICS	CLASS	TYPE OF	QUATU	M OF	REFERENCE	ACCEPTANCE	FORMAT		Α	GEN(CY	REMARKS
NO.	OPERATIO	ON		02/100	CHECK	CHEC	CK	DOCUMENT	NORMS	OF REC	ORD	M	С	N	
						M	C/N								
1	2		3	4	5	6		7	8	9	D*		10		11

				ı	ı			1		_			1
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	:		1	Р	V	V	For shaft Dia ≥ 40mm UT shall
	including castings & Dimensions Measure 100% nt	IR	1	P	-	-	be done as per ASTM A 388.						
	forgings	Surface Defects		Visual	100%	-		IR		P	-	-	
2.0	Motor Separate MQP for Electrical 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	V	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	P	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			MANUFACT	URING	QUALIT	Y PLAN		PROJE	ECT:				
R	Manufa Manufa	acturer Name and A	ddress:			ITEM:	AGITATORS	6	PACK		FGD	PACK	AGE	
	77					QP NO): FGD:704, RE	EV:00	CUST		DVC.	TAD.	חוור	ı
Main o	contractor					DT: 26	i.10.2020 Pa	age 2 of 4	- IVIAIIV	JUNI	HAU	IUK.	סחב	L
SL.	COMPONENT &	CHARATERISTICS	CLASS	TYPE OF	QUATL		REFERENCE	ACCEPTANCE	FORMA		A	GENC	Υ	REMARKS
NO.	OPERATION			CHECK	CHE		DOCUMENT	NORMS	OF REC	ORD	M	С	N	
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	_		1			'	'							''
4.2	Marking,cutting ,Edge preparation Tacking	Dimensions	Major	Measure ment	100%	•	Appd.Drawii	ng	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.Drawii		IR	1	Р	٧	٧	
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'			
	DOCUMENTATION PACKAGE.			
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	CONTRACTOR(BHEL/BHEL AIA), N:NTPC P: PERFORM W:			
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	MTC: MATERIAL TEST CERTIFICATE, TC: TEST CERTIFICATE,			
LANGUE A CTUBER CION A CTAND	MA: MAJOR, MI:MINOR, COC: CERTIFICATE OF	225242522	DELUENED DV	ADDDOVED BY
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	TURING	QUALI	TY PLAN		PROJ	ECT:				
R	HFL	Manufa	Manufacturer Name and Address: ITEM: AGITATORS QP NO: FGD:704, REV:00							-	AGE:	FGD	PACK	AGE	
	"						QP NO): FGD:704, R	EV:00	CUST	'No: CONT	-סער	T∩D.		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		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/ Prawing/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	ing	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	
MANU	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 : : : : : : : : : : : : : : : : : : :	PERFORM PERFORM OF RECORD ST CERTIF OF	W: S, ICATE,	PREPAI	RED BY	REVI	EWED	ВУ			APPROVED BY

Receipt No: 772032/2022/BAP-QA_MECH

बीए	च ई एल	MANUFACTURING QUALITY PLAN									PROJECT:				
R	Manufacturer Name and Address:					ITEM:	AGITATORS	S	PACKAGE: FGD PACKAGE						
	//						QP N	0: FGD:704, R	EV:00	CUST MAIN (-	RACT	TOR.	RHFI	
Main o	contractor						DT: 20	6.10.2020 P	age 4 of 4	1000	00111	11110	. 011.	D11L1	-
SL.	COMPONE	NT &	CHARATERISTICS	CLASS	TYPE OF	QUATU	M OF	REFERENCE	ACCEPTANCE	FORMA	Γ	A	GEN(CY	REMARKS
NO.	OPERATIO	N			CHECK	CHE	CK	DOCUMENT	NORMS	OF REC	ORD	M	C	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:	## Specific confirmations by the
Sl.No	BHEL / Customer Requirements	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 SI 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.	
	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:	HH Curation and investigation to
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.	
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Sl.No	BHEL / Customer Requirements	## Specific confirmations by the manufacturer (Acceptable/Not acceptable)
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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.	
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:

Receipt No: 772032/2022/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.	

W.r.t FOREIGN OEM VENDORS ONLY

SI	Description & Quality Requirements	Specific confirmation by
no		the vendor
		(Confirmed/Not
		Confirmed)
01	OEM vendor shall meet all the requirements as in	
	Annexure-I and also OEM Vendor shall endorse	
	(Signature and Stamp in all the pages) in attached	
	CONTRACT QUALITY REQUIREMENTS (CQR) for LT	
	MOTORS(IE3) Up to 200KW used in Agitators (DOC.NO:	
	BAP/QR/G609 to G611/NTPC Nabinagar/ LTM/	
	Agitators: 002 Rev.00 dt 06.04.2022) and send us the	
	same to follow / ensure all the requirements in the event	
	of an order.	
02	OEM vendor shall ensure Credentials of design and	
	Manufacturing capabilities w.r.t. LT Motors by their LT	
	Motor manufacture.	
03	OEM Supplier shall submit other details like that they are	
	already approved vendor by Ultimate Customer – NTPC	
	(National Thermal Power Corporation	
	Limited) specifically for proposed supply of LT Motor	
	against BHEL/Ranipet. The details of PO already	
	executed preferably through various other BHEL units for	
	any NTPC projects with CHP/MDCC including technical	
	catalogue, PO received so far for similar supply of LT	
	Motors may also be submitted.	
04	Accordingly OEM vendor shall be suitably informed that	
	If Ultimate Customer – NTPC (National Thermal Power	
	Corporation Limited) vendor approvals is not there /not	
	available, then their offer will not be considered for	
	further processing / ordering for the supply of LT Motors	
05	to take care of overall equipment/system requirements.	
05	No material shall be dispatched without BHEL/ Ultimate	
	Customer – NTPC (National Thermal Power	
	Corporation Limited) inspection - CHP/MDCC	
	clearances.	

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

NTP((BHI NTP(CS-0. PAC: MAII BHE SUB ADD	JECT: C Nabinagar 3 x 660 M EL W.O no: G 609, G (C CONTRACT NO: 370-109-(1A) -2-FC -N KAGE: FGD PACKA N CONTRACTOR: L - RANIPET CONTRACTOR (OE RESS: be filled by OEM	610 and G 611) 60A-0059 1819 GE M) &	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:	
SI.	DESCRIPTION	BHEL a	 nd Ultimate Customer - NTPC (Nation	 nal Thermal Power	##Specific
NO.		irements	confirmations by the vendor		
		200KW	Venuoi		
01	Type Test Requirements	SL NO: (ultimate should be those pro have beer witnessed (or) Ultin respective	hall submit the type test reports of all (D) (D) below and carried out within Customer NTPC bid opening dt 0 e for the test conducted on the identiposed to be supplied under this enquiry a conducted at an independent laborat I by BHEL/BHEL AIA (BHEL Appoint out out of the customer NTPC (National Therm of LT Motor Manufacture of OEM vender.)	10 years from the data of 1.08.2018. These reports ical/similar LT Motors to y and test (s) either should ory (or) should have been inted Inspection Agency) nal Power Corporation) at dor.	
		imilar / identical type test the case of type test reports ion requirement and not customer – NTPC, , the ional cost if any to BHEL nt approved lab (or) own binted Inspection Agency) the reports for BHEL /			
		by BHEL AIA (BHEL ate client NTPC is must in M (Bill of Material) /GA			

Annexure-II

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

(For FOREIGN (OUTSIDE INDIA) OEM VENDOR ONLY)

NTP (BHI NTP CS-0 PAC MAI BHE SUB ADD	JECT: C Nabinagar 3 x 660 M EL W.O no: G 609, G 6 C CONTRACT NO: 370-109-(1A) -2-FC -N KAGE: FGD PACKAI N CONTRACTOR: EL - RANIPET CONTRACTOR (OE) RESS: be filled by OEM	610 and G 611) OA-0059 1819 GE M) &	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:					
SI. NO.	DESCRIPTION	BHEL a	nd Ultimate Customer - NTPC (Nation Corporation)., India Quality Requ		##Specific confirmations by the				
			ITEM: LT Motors(IE3) - Up to		vendor				
01	Type Test Requirement(Contd)	for above Standard) i. Meas (if ap ii. No le speed iii. Open moto iv. Full l v. Temp vi. Mom vii. High viii. Test ix. Test be lir maxi x. Over xi. Degra xii. Type proof E. The TCs/page cont	circuit voltage ratio of wound rotors) oad test to determine efficiency power perature rise test. entary excess /over load test 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 ee of Protection Tests (Minimum Ingratest reports for motors located in fuel enclosures as per BIS 2148/ IEC 600 Test reports shall also be given as PE rol through Email & Soft Copy (File s						
02	Quality Plan Requirement	b. If any of I approved same is apobtaining	dingly Actual LT Motor Manufacture ustomer – NTPC format for review ar Customer - NTPC. LT Motor manufacture is having, ultin MQP (Manufacturing Quality Plan) a oplicable for these LT Motor for inspeultimate customer NTPC formal approximates and the customer NTPC formal approximate customer NTPC formal approximates.	acturing Quality Plan) is applicable for these LT Motors gly Actual LT Motor Manufacture shall submit the MQP in omer – NTPC format for review and approval by BHEL / comer - NTPC. Motor manufacture is having, ultimate customer NTPC PP (Manufacturing Quality Plan) and having validity, the cable for these LT Motor for inspection purposes subject to mate customer NTPC formal approval in the event of an endorsement sheet approval route as in sl no: 01 (c) below					

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

NTP((BHE NTP(CS-0) PAC MAII BHE SUB ADD	JECT: C Nabinagar 3 x 660 M CL W.O no: G 609, G 6 C CONTRACT NO: 370-109-(1A) -2-FC -N KAGE: FGD PACKAN C CONTRACTOR: L - RANIPET CONTRACTOR (OE RESS: be filled by OEM	510 and G 611) 50A-0059 1819 GE M) & VENDOR)	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	DOC.NO: BAP/QR/G609 to G611/NTPC Nabinagar/ LTM/ Agitators: 002 Rev NO.: 00 PAGE: Page 3 of 6 DATE: 06.04.2022	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:
SI. NO.	DESCRIPTION	BHEL a	nd Ultimate Customer - NTPC (Nation Corporation)., India Quality Requ		##Specific confirmations by the
			corporation,,, maia quanty nequ		vendor
		c. According	ITEM: LT Motors(IE3) - Up to		
02	Quality Plan Requirement	upplier shall submit the th ultimate customer ent of a Purchase Order FPC review and approval. oes not have MQP, they C (in NTPC format) for			
		review & e. Typical Ir	approval. (copy attached). adicative MQP is attached for inf and ot final and binding on BHEL / Ultim		
03	Inspection Methodology to be adopted at Actual LT Motor Manufacture	inspection MQP &	Motors are to be inspected by BHEI Agency) at LT Motor manufacture approved data sheet/drg/spec/ as per andard) - BIS 325 / IEC 60034 e-NTPC	e works as per approved relevant BIS (Bureau of	
	works by OEM vendor	inspection MQP & a	ne Tests are to be witnessed by BHE n Agency) at LT Motor manufacture approved data sheet/drg/spec / as per andard) - BIS 325 / IEC 60034 e-NTPC	e works as per approved relevant BIS (Bureau of	
		NTPC wind Degree of	A (BHEL authorized inspection Ager ill also ensure LT Motor type tests Protection Test Reports & acceptance data sheet / drg / spec / as per relevation BIS 325 / IEC 60034 etc.		
		Customer works and reports in approved	JA (BHEL authorized inspection -NTPC to witness / perform inspect d submit all the inspection documents cluding Degree of Protection Test Re MQP & approved data sheet / drg / s f Indian Standard) - BIS 325 / IEC 6	tion at LT Motor Supplier s and routine & Type test sports (IP 55) as per spec / as per relevant BIS	

Annexure-II

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

NTP((BHI NTP(CS-0. PAC: MAII BHE SUB ADD	PROJECT: NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611) NTPC CONTRACT NO: CS-0370-109-(1A) -2-FC -NOA-0059 1819 PACKAGE: FGD PACKAGE MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM) & ADDRESS: (To be filled by OEM VENDOR)		REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Agitators						
SI. NO.	DESCRIPTION	 nal Thermal Power irements	##Specific confirmations by the						
NO.		rements	vendor						
		T	ITEM: LT Motors(IE3) - Up to						
03	Inspection Methodology to be adopted at Actual LT Motor Manufacture works by OEM vendorcontd	are to be inspet (BHEL author per approved I (Bureau of Ind Test Reports v Customer – N' LT Motor Matthat the above specific require variation, hot she between centre with approved LT Motors (3)	r OEM Vendor & same BHEL / BHEL AIA manufacture works as c/ as per relevant BIS etc and all the Routine tted for BHEL/Ultimate on and dispatch clearance. The of Conformance states are care of Customer to the office and the of						
		All Routine T same are to authorized in including rev Reports (IP sheet/drg/spe 325 / IEC 60 report (IR) to and to obtain i	ests on LT Motors are to be ensible inspected & witnessed by BH inspection Agency) at LT Motoriew of Type Test Reports and Deceptor (1988) as per approved MQ and the Routine Test be submitted for BHEL/Ultimate Cust inspection and dispatch clearance. Wand up to 200KW – Inspection (2017) Type Tests if any on LT Motors are ual LT Motor Manufacture Works and	ured by OEM vendor & EL / BHEL AIA (BHEL or manufacture works gree of Protection Test P & approved data f Indian Standard) - BIS Reports with Inspection tomer – NTPC for review Categorization: I et o be ensured by OEM					
		BHEL/ BHEI Customer-NTI Protection Tes with endorsen relevant BIS (the Routine T	L AIA (BHEL authorized inspection PC for inspection & witnessing included Reports as per approved MQP /RQI ment sheet approved) / approved data Bureau of Indian Standard) - BIS 325 (Sest Reports with Inspection report of the Customer – NTPC review and the PC for inspection report of the Customer – NTPC review and the PC for inspection report of the Customer – NTPC review and the PC for inspection report of the Customer – NTPC review and the PC for inspection report of the PC for inspection and the PC for inspection with the PC for inspection and the PC for inspection with the PC for inspection and the PC for inspection with the PC for inspection	on Agency) / Ultimate ding review of Degree of P (Reference Quality Plan sheet / drg / spec / as per 5 / IEC 60034 etc and all (IR) to be submitted for					

Annexure-II

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

NTP (BHI NTP CS-0 PAC MAI BHE SUB ADD	DECT: C Nabinagar 3 x 660 M EL W.O no: G 609, G 6 C CONTRACT NO: 370-109-(1A) -2-FC -N KAGE: FGD PACKAN N CONTRACTOR: L - RANIPET CONTRACTOR (OE) RESS: be filled by OEM	610 and G 611) GOA-0059 1819 GE M) &	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	DOC.NO: BAP/QR/G609 to G611/NTPC Nabinagar/ LTM/ Agitators: 002 Rev NO.: 00 PAGE: Page 5 of 6 DATE: 06.04.2022	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:
SI. NO.	DESCRIPTION	BHEL a	nd Ultimate Customer - NTPC (Nation Corporation)., India Quality Requ		##Specific confirmations by the
			ITEM: LT Motors(IE3) - Up to	4007777	vendor
03	Inspection Methodology to be adopted at Actual LT Motor Manufacture works by OEM vendorcontd	LT Motor Ma inspection Ag and any cost including for v Works (or) at NTPC are in the As such No ex order and also No material	s / tests /review of documents / ins nufacture by OEM /BHEL / BHEL / gency) / Ultimate Customer-NTPC implication arising out of due to condi- witnessing of any of the tests at Actual third party etc by BHEL / BHEL AIA he scope of OEM Supplier only. tra cost if any will be admissible and during execution of the contract. shall be dispatched without BI tomer – NTPC Inspection and disp	spection & witnessing at AIA (BHEL authorized are under OEM scope ucting checks / tests I LT Motor Manufacture / Ultimate Customer – paid in the event of an HEL / BHEL AIA and	
04	Painting Requirements	coats if any ar	rement like paint shade and painting the to be ensured by the OEM vendor for the Customer -NTPC approved data		
05	Packing	Packing shall	be as per Specification / Drg. / Data s to avoid any transit & handling dama		
06	For Inspection call	Motor Manu inspection/ witnessing if (QC-Proc)., I and Mr Kova Email id: kov immediate re	all by OEM Vendor for LT Motor facture works to be raised for Ultimate Customer – NTPC ir any to be ensured / addressed to Mobile no: +91 9443006303., Em rathanan., DM (QC-Proc)., Mobile vak@bhel.in including for inspect sponse / resolution.		
07	Document Package / Dossier	soft copies in PI (i) Index (ii) MQP (iii) TCs i (Custr as giv (iv) Final (v) BHE (vi) Ultin CHP (clears (vii) Type	nation for Document Package in the event Df file) is to be given containing the follows. Sheet //RQP/Endorsement sheet dentified by BHEL/NTPC for record for comer Hold Point) Verification & Witness cen in MQP / RQP / MQP (as applicable). Inspection Report + TC L AIA (BHEL Appointed Inspection Agence Technology of the Coustomer NTPC (National Thermal Pock (Customer Hold Point) / MDCC (Material ance Certificate) test reports conducted/submitted with application and the conducted data sheet and BOM with actual maker we will be a submitted with application and the conducted submitted with application and the conducted data sheet and BOM with actual maker we will be a submitted with application and the conducted submitted submitted with application and the conducted submitted submitt	wing with proper linkages (.) "CHP" "W" portion ney) / ower Corporation) Dispatch oroval with	

Annexure-II

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

(For FOREIGN (OUTSIDE INDIA) OEM VENDOR ONLY)

NTP((BHE NTP(CS-0. PAC: MAI: BHE SUB ADD	PROJECT: NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611) NTPC CONTRACT NO: CS-0370-109-(1A) -2-FC -NOA-0059 1819 PACKAGE: FGD PACKAGE MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM) & ADDRESS: (To be filled by OEM VENDOR)			CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW u in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and 611)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DOC.NO: BAP/QR/G609 to G611/NTPC Nabinagar/ LTM/ Agitators: 002 Rev NO.: 00 PAGE: Page 6 of 6 DATE: 06.04.2022			##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:			
SI.	DESCRIPT	ION	BHEL a	nd Ultimate Customer - NTPC (N	ationa	l Therm	al Power			##Specific		
NO.				Corporation)., India Quality F	Require	ements			confi	rmations by the		
										vendor		
			-	ITEM: LT Motors(IE3) - U	Up to 2	200KW			ı			
				mer approved drgs.								
08	Important notes		Inspection Cate Inspection Cate Inspection Cate COC by Main inspection as in Any cost implic the tests at Acte Customer – NT	BHEL/BHEL AIA and also by Ultinapproved and as in sl no:03 egorization: II Main contractor (BHEL) / BHEL A PC approved MQP/RQP & based egorization: III contractor (BHEL) to Ultimate Cus	IA base on insp stomer ncludin y BHEI only an	ed on Ul pection a – NTPC g for wit L / BHE ad no ext	timate s in sl no:03 C based on tnessing of at L AIA / Ulti ra cost if any	ny of imate				
09			ish following M	otor details involved in Agitators	(as an	nlicable) for this en	aniry				
	S. No	10111	ion following M	Agitators	(as ap	pheable	LT Motor	quii y.		1		
				S		nting	Quantity	M	ake	1		
	1	Abac	rhar Tanla A aita	tor Motor	(in	kW)	(in nos)	1				
	2		rber Tank Agita	Cank Agitator Motor				+				
	3		te Water Tank A		+			+		1		
	4			lone Feed Tank Agitator Motor				1		1		
	5		e Water Tank A	<u> </u>								
	6			rage Tank Agitator Motor				t		1		
	7			ne Feed Tank Agitator Motor								
	8			Sump Agitator Motor		_]		
	9			Sump Agitator Motor]		
	10			Sump Agitator Motor			· · · · · · · · · · · · · · · · · · ·					
	11	Other										

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 (National Thermal Power Corporation Limited) specific requirements.

ENDORSEMENT SHEET FOR QP REFERENCE / STANDARD / FIELD QUALITY PLAN (RQP / SQP/RFQP/SFQP)

TO BE FILLED IN BY SUPPLIER AT T	IME OF SUBMISSION	एनरीपीसी NTPC	To be filled in by NTPC
PROJECT NAME	NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	2REVIEW &	<u>ENDORSEMENT BY NTPC</u> PECIFIC OP NUMBER ALLOTTED
CONTRACT NO.:	CS-0370-109-(1A) -2-FC -NOA-0059/1819		2020 (2010)
MAIN SUPPLIER	M/S.BHEL, RANIPET , TAMIL NADU., INDIA	QP NO:	
MANUFACTURER WORKS & ADDRESS	TO BE FILLED BY OEM/LT MOTOR SUPPLIER	REV. NO.: (M DT.
ITEM /EQUIPMENT / SYSTEM/ SUB-SYSTEM DETAILS i.e. MODEL TYPE/SIZE/RATING etc.	LT MOTOR(IE3) - AGITATORS FOR FGD APPLICATION	REVITO:	N D1.
APPROVED QP NO.: RQP/SQP/RFQP/SFQP	TO BE FILLED BY OEM / LT MOTOR SUPPLIER		
Confirmation by Main Supplier (TICK WHICHE		(TICK APPLICAL	BLE)
I. That the item/ component is identical to that con	ısidered for SQP approval. $$	The MQP/RQ	
II. That there are minor changes in the item/com the same do not affect the contents of MQP/RQP/.	ponent with respect to that considered for MQP/RQP/SQP approval, however SOP	without any c	nange
III. That there are minor changes in the item/con	ponent with respect to that considered for MQP/RQP/SQP approval, however	-	ndorsed for this project with changes
the same affect the MQP/RQP/SQP slightly, as ind	licated below / in attached sheet.	A) MQP/RQ 1. MAIN SUPP MQP/RQP/SQ 2. MANUFACT 3. RIO 4. CQA-SPL 5. CQA-O/C B) RFQP/SFO 1. MAIN SUPP 2. MANUFACT 3. NTPC FQA	LLER (WITH A COPY OF QP) FURER QP: LLIER (with a copy of MQP/RQP/SQP
	(TO BE FILLED BY OEM / LT MOTOR SUPPLIER	NTDC (Danie	wood /Annyoured by/ Date & Coal)
SIGN.: (Main Supplier) DATE:	SIGN.: (Manufacturer) DATE:	NITC (Kevie	wed /Approved by/ Date & Seal)

		OEM SUPP	PLIER		MANU	FACTURING OIL	JALITY PLAN FO	R	MQP:E:LTM: NABINAGAR :FGD AGITATORS:001					
		To be fille		17			,,, <u></u>	••	REV:NO:0					
	BUEL		•	L	IMUIUK	(Up to 10 2001	KW) - FGD Appli	cation	DATE: 17.0	02.2022				
BΔP	BHEL / Ranipet /	OEM Sup	plier				Page:							
	MIL NADU	LT MOT	OR											
	INDIA	Manufac												
		To be filled b												
		Supplie												
S1 No	COMPONET/A		CLASS	TYPE OF	OHANUTM OF	REFERENCE DOCUMENT	ACCEPTANCE STANDARD	FORMAT OF REC		AGENCY		REMARKS		
31.NU.	SSEMBLY/OP	RISTIC	ULAGG	CHECK	CHECK	HEI ENENGE DOCUMENT	ACCEPTANCE STANDARD	TORWAT OF REC			Inuri /	INLIMANING		
	ERATION/TES TS								D	M	BHEL/ BHEL AIA			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.		12.		
INCO	MING INSPCE													
1.1	copper	1.Overall diameter	Major	Mechanical	1 sample/lot	IS 13730 1993 Part 13 / IEC 60317-0-1-2008 (As applicable)	IEC 60317-0-1 2008	Plant format		Р	V			
	conductor(Dual coated)MM	2.Bare conductor diameter	Major	Mechanical	1 sample/lot	BHEL / NTPC Spec & Apprd Datasheet	BHEL / NTPC Spec & Apprd Datasheet	Plant format		Р	V			
		3.BDV test	Major	Electrical	1 sample/lot	do	do	Plant format		P	V			
		4.Elongation	Major	Mechanical	1 sample/lot	do	do	Plant format		P	٧			
		5.Continuity (insulation)	Major	Electrical	1 sample/lot	do	do	Insp report/ Supplier TC		P	V			
		6.Tan Delta (If applicable)	Major	Electrical	1 sample/lot	do	do	Insp report/ Supplier TC		Р	٧	EC gr purity: -99.6%		
1.2	Aluminum Ingots	1.Chemical composition	Major	Chemical	1 sample/lot	do	do	Supplier Tc		P	٧	Lo gi punty. 35.076		
1.3	FAN	1.Diameter (ID&OD)	Major	Mechanical	1 sample/lot	do	do	Inspection Report		P	٧			
1.4	Bearings (SKF OR FAG)	1.Type & Make	Major	Visual	100%	d0	do	Inspection Record		P	V			
		2.Dimensions - ID,OD&width	Major	Mechanical	1 sample/lot	do	do	Inspection Record		P	٧			
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	d0	Inspection Report		P	٧			

		OEM SUP	PLIER		MΔNII	FACTURING OF	IALITY PLAN FO	R	MQP:E:LTI	M: NABINAG <i>i</i>	AR :FGD	AGITATORS:001		
		To be fille		1			· · · · · · · · · · · · · · · · · · ·	••	REV:NO:00					
	BHEL		•	L	INUIUN	(Up to 10 2001	KW) - FGD Appli	cation	DATE: 17.02.2022					
DAI	BAP/ RANIPET / TAMIL NADU LT MOTOR		plier						Page :					
			OR											
	INDIA	Manufac	ture											
	To be filled by OEM													
		Suppli	er											
S1.No	. COMPONET/A		CLASS	TYPE OF		REFERENCE DOCUMENT	ACCEPTANCE STANDARD	FORMAT OF REC		AGENCY		REMARKS		
	SSEMBLY/OP ERATION/TES TS	RISTIC		CHECK	CHECK				D	M	BHEL/ BHEL AIA			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.		12.		
	ROCESS INSP		<u>''</u>	<u> </u>	Ŭ.	- 11	0.	0.	10.			12.		
2.1	Stator core	1.Core length dia	Major	Mechanical	100%	do	do	Inspection Record		Р	٧			
		2.Core locking	Major	Visual	100%	do	do	Inspection Record		Р	V			
		3.Rigidity of core	Major	Mechanical	100%	do	do	Inspection Record		Р	٧			
2.2	Die cast rotor	1.Core length	Major	Mechanical	100%	do	do	Inspection Record		P	٧			
		2.Blow holes	Major	Mechanical	100%	do	do	Inspection Record		P	٧			
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		Р	٧			
		3.Insulation resisitance	Major	Electrical	100%	do	do	Inspection Record		P	٧			
2.4	Final Assembiy	1.Completeness	Major	Visual	100%	do	do	Inspection Record		P	٧			
		2.Runout in case of flanged motors	Major	Mechanical	100%	do	do	Inspection Record		P	٧			
		3.Mounting dimensions	Major	Mechanical	100%	do	do	Inspection Record		P	٧			

		OEM SUP	PLIER		MANU	FACTURING QL	IALITY PLAN FO	R			AR :FGD	AGITATORS:001	
		To be fille	ad hv	1 17				• •	REV:NO:00				
			•	L	IMUIUK	(Up to 10 2001	KW) - FGD Appli	cation	DATE: 17.02.2022				
l	BHEL	OEM Sup	plier						Page :				
	/ RANIPET /												
TA	TAMIL NADU <u>LT MOTOR</u>		<u>OR</u>										
	INDIA	Manufac	ture										
		To be filled b											
		Supplie											
C4 No	COMPONET/A	CHARACTE-	CLASS	TYPE OF	OHANIITM OF	DEFEDENCE DOCUMENT	ACCEPTANCE STANDARD	FORMAT OF REC		AGENCY		REMARKS	
31.NO.				CHECK	CHECK	INEFERENCE DOCUMENT	INCOEPTANCE STANDARD	PONNAI OF REC				DEMANNO	
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	TS										BHEL Aia		
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	1	12.	
		N AND TESTING		Ų.	U.	7.	0.	V.	10.			15.	
3.1	Routine Test	1.Resistance Measurement on winding & space heater	Major	Electrical	100%	BHEL / NTPC Spec, GA Drawing & Apprd Datasheet and IS/IEC 60034 (As applicable)	BHEL / NTPC Spec, GA Drawing & Apprd Datasheet and IS/IEC 60034 (As applicable)	Inspection Record		P	W		
		2.HV Test	Maior	Electrical	100%	do	do	Inspection Record		Р	W		
		3.Phase sequence & direction of rotation	-9-	Electrical	100%	do	do	Inspection Record		P	W		
		4.No load run test	Major	Electrical	100%	do	do	Inspection Record		Р	W		
		5. Vibration test	Major	Mechanical	100%	do	do	Inspection Record		P	W		
		6.Name plate recheck	Major	Visual	100%	do	do	Inspection Record		P	W		
		7.Paint shade thickness & adhesion	Major	Visual & Measurement	100%	do	do	Inspection Record		P	W		
		8.Moutings & Overall dimensions	Major	Mechanical	100%	do	-do-	Inspection Record		P	W		

		OEM SUPF			MANU	FACTURING QU		MQP:E:LTM: NABINAGAR :FGD AGITATORS:001 REV:NO:00						
		To be fille	DATE: 17.02.2022											
RΔF	BHEL P/ RANIPET /	OEM Sup	plier			\ 1	KW) - FGD Appli		Page :					
	MIL NADU	LT MOT	<u>OR</u>											
	INDIA	<u>Manufac</u>	ture											
		To be filled b Supplie												
S1.No. COMPONET/A			CLASS	TYPE OF		REFERENCE DOCUMENT	ACCEPTANCE STANDARD	FORMAT OF REC		AGENCY		REMARKS		
	SSEMBLY/OP ERATION/TES TS	RISTIC		CHECK	CHECK				D		BHEL/ BHEL Aia			
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.		12.		
3.2	TYPE TESTS ###													
3.3	Preservation and Packing	1.Completeness	Major	Review	100%	do	do	Inspection Record		P	V			
		2.Motors covered with polythene sheets	Major	Visual	100%	d0	do	Inspection Record		P	V			
		3.Packing	Major	Visual	100%	do	do	Inspection Record		Р	٧			

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)

(T)	DEM SUPPLIER WITH OEM MFGR.'s LOGO O BE FILLED BY DEM SUPPLIER)	NAME AN (TO BE FI LT MOTO	R MANUFACTURER D ADDRESS LLED BY OEM / R MANUFACTURE)	TTF TO AP. SUL AG	EM; LT M 200KW F PLICATIO B-SYSTEI SITATORS	OTOR(IE3 FOR FGD ON M: FGD -) UP	MOTOR:001 REV.NO.: 00 DATE: PAGE: OF MAIN CONTRACTOR: BHEL - RA SUB CONTRACTOR (OEM) & ADD (TO BE FILLED BY OEM SUPPLIE					NTPC CONTRACT NO: CS-0370-109-(1A) -2-FC -NOA-0059 18 MAIN CONTRACTOR: BHEL - SUB CONTRACTOR (OEM) & A (TO BE FILLED BY OEM SUPPI			NTPC CONTRACT NO: CS-0370-109-(1A) -2-FC -NOA-0059 1819 MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM) & ADDRESS: (TO BE FILLED BY OEM SUPPLIER)		RESS:
SL. NO	COMPONEN OPERATIO		CHARACTERIS	STICS	CLASS	TYPE OF CHECK		HECK C/N	REFERENCE DOCUMENT	ACCEPTANCI NORMS	E FORMA' RECO			GENC		REMARKS		
1.	2 <u>.</u>		3.		4.	<u>5.</u>		6. 7.		<mark>8.</mark>	9 <u>.</u>	D*	M **	C 1	N).	<u>11.</u>		
LEGEND: * RECORDS, INDENTIFIED WITH "TICK" (√) SHALL BE DOC. NO.:								REV	CAT									
	I MANUFACTURER MOTOR SUPPLIER SIGN	MAIN SUPPI ATURE	(BHEL) P:	SSENTIAL * M: OEN : MAIN SI : PERFOR	LY INCLUD M MANUFA UPPLIER – E IM W : WIT)	DED BY SUPPL CTURER/LT M BHEL/BHEL A	LIER IN (IOTOR S IA , N: VERIFI)A DOCU UB-SUPP NTPC CATION.	MENTATION. LIER AS APPROPRIATE,	ATE, FOR NTPC USE REVIEWED BY APPROVED BY APP					APPROVAL SEAL			

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



W.r.t INDIGENOUS OEM VENDORS ONLY

SI	Description & Quality Requirements	Specific confirmation by
no		the vendor
		(Confirmed/Not
		Confirmed)
01	OEM vendor shall meet all the requirements as in	
	Annexure-I and also OEM Vendor shall endorse	
	(Signature and Stamp in all the pages) in attached	
	CONTRACT QUALITY REQUIREMENTS (CQR) for LT	
	MOTORS(IE3) Up to 200KW used in Agitators (DOC.NO:	
	BAP/QR/G609 to G611/NTPC Nabinagar/ LTM/	
	Agitators: 001 Rev.00 dt 06.04.2022) and send us the	
	same to follow / ensure all the requirements in the event	
	of an order.	
02	OEM vendor shall ensure Credentials of design and	
	Manufacturing capabilities w.r.t. LT Motors by their LT	
	Motor manufacture.	
03	OEM Supplier shall submit other details like that they are	
	already approved vendor by Ultimate Customer – NTPC	
	(National Thermal Power Corporation	
	Limited) specifically for proposed supply of LT Motor	
	against BHEL/Ranipet. The details of PO already	
	executed preferably through various other BHEL units for	
	any NTPC projects with CHP/MDCC including technical	
	catalogue, PO received so far for similar supply of LT	
	Motors may also be submitted.	
04	Accordingly OEM vendor shall be suitably informed that	
	If Ultimate Customer – NTPC (National Thermal Power	
	Corporation Limited) vendor approvals is not there /not	
	available, then their offer will not be considered for	
	further processing / ordering for the supply of LT Motors	
05	to take care of overall equipment/system requirements.	
05	No material shall be dispatched without BHEL/ Ultimate	
	Customer – NTPC (National Thermal Power	
	Corporation Limited) inspection - CHP/MDCC	
	clearances.	

NTP(BHI NTP(CS-0 PAC MAI BHE SUB ADD	JECT: C Nabinagar 3 x 660 M EL W.O no: G 609, G 6 C CONTRACT NO: 370-109-(1A) -2-FC -N KAGE: FGD PACKAN N CONTRACTOR: L - RANIPET CONTRACTOR (OEI RESS: be filled by OEM	610 and G 611) 6OA-0059 1819 GE M) &	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	DOC.NO: BAP/QR/G609 to G611/NTPC Nabinagar/ LTM/ Agitators: 001 Rev NO.: 00 PAGE: Page 1 of 6 DATE: 06.04.2022	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:
SI. NO.	DESCRIPTION	BHEL and	d Ultimate Customer - NTPC (Nationa Corporation)., India Quality Require		##Specific confirmations by the vendor
0.1	T. T. (ITEM: LT Motors (IE3) Up to		
01	Type Test Requirements	in SL NO of ultimat for the te proposed have been been with / BHEL Manufact	nall submit the type test reports of all: 01 (D) below and carried out within e NTPC bid opening dt 01.08.2018. Test conducted on the identical/similar to be supplied under this enquiry and conducted at an independent laboratessed by BHEL AIA (BHEL Appoint (or) Ultimate client NTPC at ture of OEM vendor. If vendor is not able to submit the second control of the c	10 years from the data These reports should be r LT Motors to those d test (s) either should atory (or) should have ed Inspection Agency) respective LT Motor	
		ase of type test reports equirement, the vendor to BHEL either at third BHEL AIA (BHEL mate client NTPC and BHEL AIA (BHEL imate client NTPC is GOM/GA Drawing etc.			

NTP(BHI NTP(CS-0 PAC MAI BHE SUB ADD	JECT: C Nabinagar 3 x 660 M EL W.O no: G 609, G 6 C CONTRACT NO: 370-109-(1A) -2-FC -N KAGE: FGD PACKAO N CONTRACTOR: L - RANIPET CONTRACTOR (OEI RESS: be filled by OEM	610 and G 611) GOA-0059 1819 GE M) &	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:	
SI.	DESCRIPTION	BHEL and	Ultimate Customer - NTPC (Nationa		##Specific confirmations
NO.			Corporation)., India Quality Require		by the vendor
01	Type Test RequirementContd	i. Meas ii. No le and s iii. Open moto iv. Full l v. Temp vi. Mom vii. High viii. Test s shall the n x. Over xi. Degre xii. Type proof	bmitted covering the elevant BIS (Bureau of attor and wound rotor in the input current, power motor (in case slip ring at factor and slip) or all the motors FP motor for which ess Protection - IP 55). oil area having flame 79-1 iven as PDF file with Soft Copy (File size to		

NTP (BHI NTP CS-0 PAC MAI BHE SUB ADD	JECT: C Nabinagar 3 x 660 M EL W.O no: G 609, G 6 C CONTRACT NO: 370-109-(1A) -2-FC -N KAGE: FGD PACKAON N CONTRACTOR: L - RANIPET CONTRACTOR (OEI RESS: be filled by OEM	610 and G 611) (OA-0059 1819 GE M) &	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:				
SI. NO.	DESCRIPTION	BHEL and	d Ultimate Customer - NTPC (Nationa Corporation)., India Quality Require		##Specific confirmations by the vendor			
		<u> </u>	ITEM: LT Motors (IE3) Up to	200KW				
02	Quality Plan	1. RQP	or MQP is applicable for these LT					
	Requirement	2. RQP these Manu ultim						
		NTP (Refe appli obtai even	y of LT Motor manufacture is havin C approved MQP (Manufacturing erence Quality Plan) and having cable for these LT Motor for in ning ultimate customer NTPC for t of an order through endorsem e as in sl no: 4 below					
		subm with	rdingly, LT Motor Manufacture & nit the filled up Endorsement sh ultimate customer approved MQP al in the event of a Purchase Orde					
		MQP BHE attac	Motor Manufacture / OEM ver P/RQP, they should submit of L/NTPC (in NTPC format) for reviewhed).	a fresh MQP to ew & approval. (copy				
03	BHEL / Ultimate Customer – NTPC approved vendors	LT Motors Customer - specific requi	are to be procured only from NTPC approved vendors and n rement is acceptable. / Bengaluru (Up to 200KW) & Hub/Ahemdnagar (Up to 200KW) /ENS/Mumbai (Up to 200KW) /Faridabad (Up to 55KW) and (W) Mumbai (Up to 200KW) /F Bengaluru (Up to 15KW) /thon / Kolkatta (Up to 200KW) /ni / Vadodara (Up to 200KW) /ni Hydralics Private Limited (LHF					

NTPC (BHI NTPC CS-0 PAC MAI BHE SUB ADD	JECT: C Nabinagar 3 x 660 M EL W.O no: G 609, G 6 C CONTRACT NO: 370-109-(1A) -2-FC -N KAGE: FGD PACKAON CONTRACTOR: L - RANIPET CONTRACTOR (OEN RESS: be filled by OEM	610 and G 611) OA-0059 1819 GE M) &	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	##Enquiry No: ## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id:	
SI.	DESCRIPTION	BHEL and	l Ultimate Customer - NTPC (Nationa		##Specific confirmations
NO.			Corporation)., India Quality Require		by the vendor
04	Inspection	LT Motors !!!	ITEM: LT Motors (IE3) Up to to 30KW – Inspection Categorizati		
	Methodology to be adopted at Actual LT Motor Manufacture works by OEM vendor	All Routine tesame are to be AIA (BHEL at works as per a relevant BIS (lall the Routine for BHEL/Ulti and dispatch c LT Motor Mar states that the Customer specific frequency varirise, distance by	inspected & witnessed by OEM Vend athorized inspection Agency) at LT M pproved MQP & approved data sheet Bureau of Indian Standard) - BIS 325. Test Reports with Inspection report (1) mate Customer – NTPC for review an	of OEM Vendor & lor / BHEL / BHEL / BHEL / Indoor manufacture / drg / spec/ as per / IEC 60034 etc and IR) to be submitted d to obtain inspection the of Conformance of daking care of emp., voltage and log KVA/KW, temp. space heater and	
		All Routine T & witnessed Agency) at L Test Reports approved MC BIS (Bureau the Routine Te BHEL/Ultimate and dispatch c Above 50KV All Routine & Vendor and sa authorized inspinspection & v Reports as per data sheet / drg BIS 325 / IEC Reports include (IR) to be subr	ests on LT Motors are to be ensure by BHEL/BHEL AIA (BHEL author T Motor manufacture works include and Degree of Protection Test Reports approved data sheet/drg/spector Indian Standard) - BIS 325 / IECT INDIAN I	ed by OEM vendor ized inspection ing review of Type ports (IP 55) as per c / as per relevant 6 60034 etc and all to be submitted for o obtain inspection Categorization: I be be ensured by OEM AIA (BHEL -NTPC for e of Protection Test ent sheet / approved of Indian Standard) - ports, Type test ith Inspection report	

NTP((BHE)NTP(CS-0.	JECT: C Nabinagar 3 x 660 M EL W.O no: G 609, G 6 C CONTRACT NO: 370-109-(1A) -2-FC -N KAGE: FGD PACKAO N CONTRACTOR: L - RANIPET CONTRACTOR (OEI RESS: be filled by OEM	610 and G 611) OA-0059 1819 GE M) & VENDOR)	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW used in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id: ##Specific confirmations			
NO.	DESCRIPTION	DILL dill	l Ultimate Customer - NTPC (Nationa Corporation)., India Quality Require		by the vendor		
	<u>.</u>		ITEM: LT Motors (IE3) Up to				
04	Inspection Methodology to be adopted at Actual LT Motor Manufacture works by OEM	Customer-NTI works and sub reports includi approved MQI (Bureau of Ind	AIA (BHEL authorized inspection Age of the witness / perform inspection at I mit all the inspection documents and ring Degree of Protection Test Reports of Age of	gency) / Ultimate T Motor Supplier routine & Type test (IP 55) as per as per relevant BIS etc.			
	vendor Contd		nall be dispatched without BHEL / BF FPC Inspection and dispatch clearance				
05	Painting Requirements	of coats if any as per BHEL/	rement like paint shade and painting the are to be ensured by the OEM vendor Ultimate Customer -NTPC approved ec (As applicable).	for these LT Motors			
06	Packing		be as per Specification / Drg. / Dat g if any to avoid any transit & handlin				
07	For Inspection call	Motor Manufa / Ultimate Cus be ensured / ac +91 9443006 DM (QC-Proc including for resolution.	I by OEM Vendor for LT Motor inscrure works to be raised for BHEL/stomer – NTPC including for type test ddressed to Mr R Kesavan., DGM (6303., Email id: kesavan@bhel.in an)., Mobile no: +91 8903502628., Eminspection related activities for i				
08	Document Package / Dossier	copies + soft c proper linkages (i) Index (ii) MQP (iii) TCs i (Custr as giv (iv) Final (v) BHEL (vi) Ultim CHP (Cleara (vii) Type appro	nation for Document Package in the evopies in PDF file) is to be given contai (.) Sheet (RQP/Endorsement sheet dentified by BHEL/NTPC for record for " mer Hold Point) Verification & Witness " en in MQP / RQP / MQP (as applicable). Inspection Report + TC L AIA (BHEL Appointed Inspection Agentare customer NTPC (National Thermal Potential Customer Hold Point) / MDCC (Material ance Certificate) test reports conducted/submitted with applied data sheet and BOM with actual make omer approved drgs.				

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

PROJECT: NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611) NTPC CONTRACT NO: CS-0370-109-(1A) -2-FC -NOA-0059 1819 PACKAGE: FGD PACKAGE MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM) & ADDRESS: (To be filled by OEM VENDOR)				610 and G 611) OA-0059 1819 GE M) &	CONTRACT QUALITY REQUIREMENTS (CQR) for LT MOTORS(IE3) - Up to 200KW in Agitators NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 an 611)	Address: ##Offer refe ##Date:	## OEM Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no:							
SI. NO.	DI	ESCRIPT	ION	BHEL and	l Ultimate Customer - NTPC (N Corporation)., India Quality R			l Power		c confirmations the vendor				
					ITEM: LT Motors (IE3)				1					
09	Im	portant	+	Inspection Cate		ор ю.	200IX VV							
	not	-	•	Inspection by F	BHEL/BHEL AIA and also by Ult/RQP approved and as in sl no:04		Customer	- NTPC						
				Inspection Cate	orization: II									
					ain contractor (BHEL) / BHEL AIA based on Ultimate PC approved MQP/RQP & based on inspection as in sl no:04									
				Inspection Cate	egorization: III									
					contractor (BHEL) to Ultimate C	ontractor (BHEL) to Ultimate Customer – NTPC based on sl no:04.								
				witnessing of BHEL / BHEI Supplier only	plication for conducting che any of the tests at Actual LT M LAIA / Ultimate Customer – N and no extra cost if any will be during execution of the contrac									
10		otor det												
	Ve		all furn	ish following M	otor details involved in Agitato	rs (as a	pplicable		uiry.	1				
		S. No			Agitators	I	Rating	LT Motor Quantity	Make					
							n kW)	(in nos)	-					
		1		rber Tank Agita										
	2 Auxiliary Absorber													
	3 Filtrate Water Tank													
					lone Feed Tank Agitator Motor									
	Traste Trater Turner													
		7			rage Tank Agitator Motor									
		8			e Feed Tank Agitator Motor Sump Agitator Motor									
		9			Sump Agitator Motor									
		10			Sump Agitator Motor Sump Agitator Motor									
		11			red in the system (if any)									
					«J» (** *****************************									

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 (National Thermal Power **Corporation Limited) specific requirements.**

ENDORSEMENT SHEET FOR QP REFERENCE / STANDARD / FIELD QUALITY PLAN (RQP / SQP/RFQP/SFQP)

TO BE FILLED IN BY SUPPLIER AT T	IME OF SUBMISSION	एनरीपीसी NTPC	To be filled in by NTPC				
PROJECT NAME	NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611)	2REVIEW &	ENDORSEMENT BY NTPC PECIFIC OP NUMBER ALLOTTED				
CONTRACT NO.:	CS-0370-109-(1A) -2-FC -NOA-0059/1819						
MAIN SUPPLIER	M/S.BHEL, RANIPET , TAMIL NADU., INDIA	QP NO:					
MANUFACTURER WORKS & ADDRESS	TO BE FILLED BY OEM/LT MOTOR SUPPLIER	REV. NO.: (na dt.				
ITEM /EQUIPMENT / SYSTEM/ SUB-SYSTEM DETAILS i.e. MODEL TYPE/SIZE/RATING etc.	LT MOTOR(IE3) - AGITATORS FOR FGD APPLICATION	REVITO:	N DI.				
APPROVED QP NO.: RQP/SQP/RFQP/SFQP	TO BE FILLED BY OEM / LT MOTOR SUPPLIER						
Confirmation by Main Supplier (TICK WHICHE		(TICK APPLICAE	BLE)				
I. That the item/ component is identical to that con	ısidered for SQP approval. $$	The MQP/RQ					
II. That there are minor changes in the item/com the same do not affect the contents of MQP/RQP/.	ponent with respect to that considered for MQP/RQP/SQP approval, however SOP	without any c	nange				
III. That there are minor changes in the item/con	ponent with respect to that considered for MQP/RQP/SQP approval, however		ndorsed for this project with changes				
the same affect the MQP/RQP/SQP slightly, as ind	licated below / in attached sheet.	A) MQP/RQ 1. MAIN SUPP MQP/RQP/SQ 2. MANUFACT 3. RIO 4. CQA-SPL 5. CQA-O/C B) RFQP/SF(1. MAIN SUPP 2. MANUFACT 3. NTPC FQA (LIER (WITH A COPY OF P) PURER PP: LIER (with a copy of MQP/RQP/SQP				
	(TO BE FILLED BY OEM / LT MOTOR SUPPLIER	NTDC (Davia	wed /Approved by/ Date & Seal)				
SIGN.: (Main Supplier) DATE:	SIGN.: (Manufacturer) DATE:	MITC (Nevie	weu /Approveu by/ Date & Seat)				

(T	DEM SUPPLIER WITH OEM MFGR.'s LOGO O BE FILLED BY DEM SUPPLIER)	NAME AN (TO BE FI	R MANUFACTURE ID ADDRESS LLED BY OEM / IR MANUFACTURE	ITI TO AP		OTOR(IE3 FOR FGD ON M: FGD -		QP NO MOTO REV.N DATE:	(0.: 00		NTPC Nabinagar 3 x 660 MW (BHEL W.O no: G 609, G 610 and G 611) NTPC CONTRACT NO: CS-0370-109-(1A) -2-FC -NOA-0059 1819 MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR (OEM) & ADDRESS: (TO BE FILLED BY OEM SUPPLIER)				RESS:									
SL. NO	COMPONEN OPERATIO		CHARACTER	ISTICS	CLASS	TYPE OF CHECK		NTUM HECK	REFERENCE DOCUMENT	ACCEPTANC NORMS	FORMAT OF RECORD			AGENCY		REMARKS								
1.	2.		3.		<mark>4</mark> .	<u>5.</u>	M	C/N 6.	7.	8.	0	9. D*										C * 1	N	<u>11.</u>
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, LT MOTOR SUPPLIER SUPPLIER FOR NTPC CHP: NTPC SHALL IDENTIFIED IN COLUM "N" AS "W"								DOC. NO.:	ВУ	AI	PPRO	REV.	APPROVAL SEAL											

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

