



BHARAT HEAVY ELECTRICALS LIMITED

BAP – Ranipet, 632406

MM – PURCHASE Department (FGD)

NIT

BHEL Ranipet Enq for.: NMEJ-Bhilai & Ramagundam

Date: 18-02-2022

Sub: Requirement for "Supply and Supervision for installation of Non-Metallic Expansion Joint as PER TECH SPEC ABR:DUCT:NMEJ:R02" for BHEL Site NSPCL-Bhilai and NTPC Ramagundam as tabulated below by BHEL-Ranipet.

Scope of supply: As subjected above in confirmation with Quality plan. The package wise scope of supply consists of:

Bid Sl	BHEL Material code	Description	Unit	Qty	Delivery reqd	Quoted/Not Quoted
Package1 – Schedule 1 : NMEJ NSPCL Bhilai						
1	RFW115040001	NMEJ For Horizontal Duct Size 3700mm x 7800 mm, FRP Pipe length 3700 mm, Design Temp 90 deg C continuous, Dely at NSPCL Bhilai	Set	2	30-08-2022	
2	RFW115040002	Supervision for installation of non metallic exp joint at NSPCL Bhilai – set basis separate visit	set	2	Within 8 months of supply	

Enq sl no	BHEL Material code	Description	Unit	Qty	Delivery reqd	Quoted/Not Quoted
Package 2 – Schedule 2: NMEJ NTPC Ramagundam						
3	RFW115030001	NMEJ For Horizontal Duct Size 6000mm x 13100 mm, FRP Pipe length 6000 mm, Design Temp 90 deg C continuous, Dely at NTPC Ramagundam St1	Set	1	24-10-2022	
4	RFW115030002	Supervision for installation of non metallic exp joint at NTPC Ramagundam St 1	set	1	Within 8 months of supply	
5	RFW115020001	NMEJ For Horizontal Duct Size 5300mm x 10200 mm, FRP Pipe length 5300 mm, Design Temp 90 deg C continuous, Dely at NTPC Ramagundam St2	set	1	24-12-2022	
				1	24-03-2023	
				1	24-04-2023	
6	RFW115020002	Supervision for installation of non metallic exp joint at NTPC Ramagundam St 1 – set basis separate visit	Set	3	Within 8 months of supply	

Destination: BHEL Site as stated

Supervision for E&C: For each set separate visit shall be planned. Bidder to quote accordingly



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Delivery required date: As per above table or within 4 months from the date of manufacturing clearance, whichever is later. Bidder to quote the best possible delivery from the date of manufacturing clearance. Abnormal quoted delivery, liable for rejection of offer.

Pre-Qualification requirement (PQR):**1. Technical -**

SL	Pre-Qualification Requirement (PQR)	Bidder's Reply with Supportive documents
1	Supplier should be a manufacturer of Non-Metallic Expansion Joints and relevant documents like ISO certificates/ MSME certificates/ Articles of Association/Factory registration certificate etc. shall be submitted by the vendor with offer.	
2	The vendor should have successfully supplied the expansion joints of similar design in thermal power plant/FGD outlet duct/similar application in a flue gas path. Unpriced PO copies shall be submitted by the vendor as proof of experience.	

2. Financial soundness: Bidder should have minimum annual turnover of INR 17 lakhs (INR Seventeen Lakhs only). Bidder to submit the Audited balance sheet or/and CA certified Profit and Loss account for previous three continuous years (Any one of: FY 2018-2021 or 2017-2020). MSE bidders and Start-ups are exempted as per Govt of India guidelines. For such exemption Udyam certificate for MSE or Startup certificate must be submitted.

Technical requirement

- (a). **Manufacturing: Document Submission-**Drawing, Data sheet and quality plan shall be submitted upon ordering for approval by BHEL. **Manufacturing clearance** will be provided upon approval of drawing with data sheet and QAP. Manufacturing shall be as per attached technical specification in the bid, Approved drawing, Quality plan and Data sheet. **Inspection:** as per Cl (b) below stated. **Dispatch Clearance:** Upon submission of inspection reports along with test certificates in original and Packing list dispatch clearance will be provided by BHEL.
- (b). **Inspection:** Inspection (call to be raise by supplier at BHEL COIR portal) before despatch at supplier's works (as per Quality terms and Quality plan) by BHEL/authorised agency (TPI-Third Party Inspection) for indigenous supplies at BHEL cost. Inspection includes for painting and packing also, as applicable. All the Test and inspection reports shall be sent to BHEL-Ranipet for review and dispatch clearance.
- (c). **Packing requirement:** Packing shall be waterproof. All item shall be packed in water-proof package as per technical spec. and the material code with description & Supplier name shall be marked on the packing.
- (d). **Documents:** Accepted IR copy along with relevant test certificates (in original) before despatch to be given to BHEL. This is required for Dispatch clearance.
- (e). **Reverse Auction** shall be conducted, Projectwise L1 shall be taken for Ordering.
- (f). **Delivery Location:** FOR destination (BHEL Site), as per scope of supply



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Note:

1. Quote shall be in INR only
2. Relevant documents/formats are attached in Additional scope of GeM bid.
3. Quoted rate shall be inclusive of GST, as per GeM terms and condition.
4. Non Submission of any of required documents as listed below, attracts for offer rejection.

List of documents to be attached (signed stamped copy):

1. NIT and GeM bid copy
2. Tech spec filled in along with all annexures/drawings
3. Quality requirements, Quality Plan and Filled in Annex Q-Quality terms
4. Relevant documentary evidence to meet pre qualification requirement
5. Fabric cloth data sheet with physical and mechanical property along with the offer.
6. Filled-in Make in India declaration on Letter head (format attached)
7. Performance BG shall be 10% of PO value, as per BHEL order.
8. Udyam portal registration copy if MSE bidder
9. Financial turn over documents as per PQR

For any query: Kindly provide the "NMEJ-Bhilai & RGD" in the subject of mail.

mail: ckbharti@bhel.in; jecashish@bhel.in

Ph: 9488 58 9287 / 7010 75 1675

You may raise the query through GeM also.

**BHARAT HEAVY ELECTRICALS LIMITED****BAP – Ranipet, 632406****MM – PURCHASE Department (FGD)**

Buyer Additional terms:

1. **Quote shall be in INR only inclusive of Taxes (GST).**
2. MSE firm shall upload the UDYAM portal registration certificate
3. Documentary evidences shall be uploaded for PQR
4. Bidder shall submit the filled-in signed stamped copy of following documents:
 - (a). NIT and GeM bid copy
 - (b). Tech spec filled in along with all annexures/drawings
 - (c). Quality requirements, Quality Plan and Filled in Annex Q-Quality terms
 - (d). Relevant documentary evidence to meet pre qualification requirement
 - (e). Fabric cloth data sheet with physical and mechanical property along with the offer.
 - (f). Filled-in Make in India declaration on Letter head (format attached)
 - (g). Performance BG shall be 10% of PO value, as per BHEL order.
 - (h). Udyam portal registration copy if MSE bidder
 - (i). Financial turn-over documents
5. PBG Applicable: 10% of PBG shall be valid for 24 months from the date of supply plus 3 months for claim period, from any of the BHEL listed bank.



Bharat Heavy Electricals Ltd
Boiler Auxiliaries Plant
Ranipet-632 406

FLUE GAS DESULPHURISATION DEPT
TECHNICAL SPECIFICATION

SPECIFICATION NO. ABR:DUCT:NMEJ

REV NO:02

PAGE NO 01 OF 03

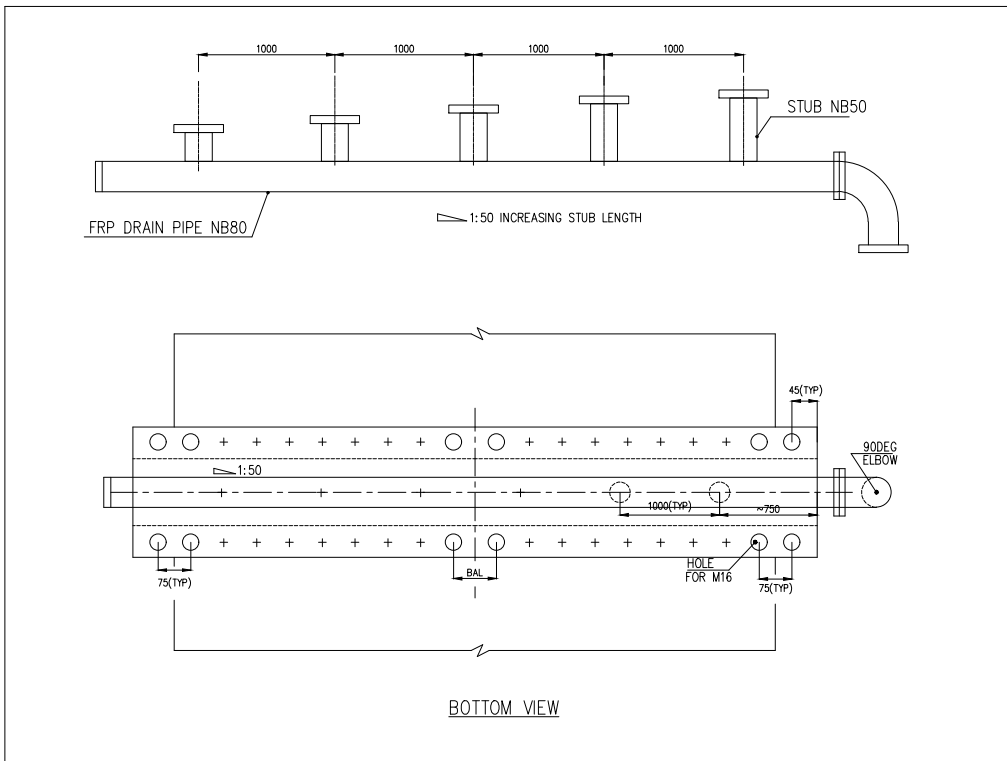
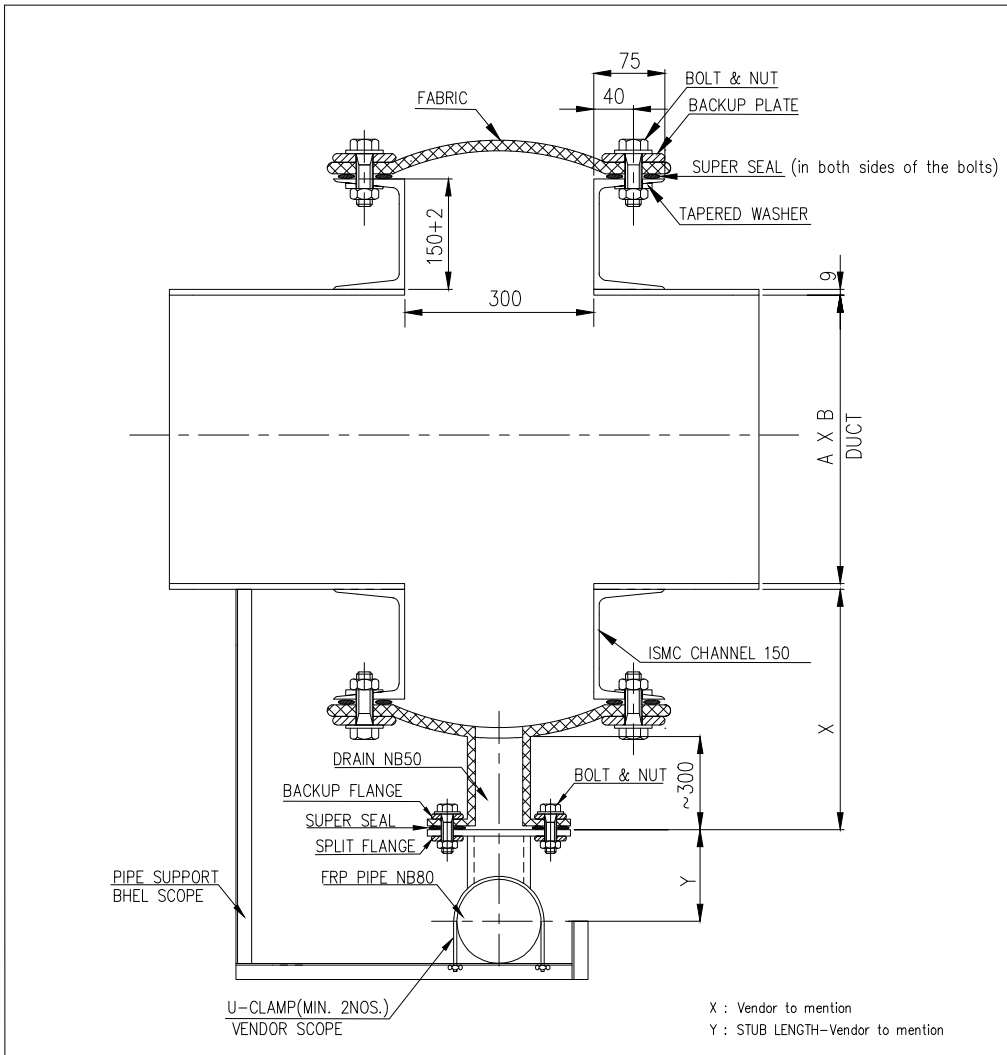
S.no	Item	Neck Flange type Non-Metallic Expansion Joints	Vendor Acceptance/ Comments
1	Scope of supply	(1) Fabric cloth, super seal gasket, back up plate & fasteners. (2)FRP pipe for horizontal ducts, super seal gasket, backup flange on the cloth side and split type backup flange on the FRP flange & fasteners with elbow and dummy flange. (3)Supervision of Installation of above two in the duct at site.	
2	Qualification Criteria	(i) Supplier should be a manufacturer of Non-Metallic Expansion Joints and relevant documents like ISO certificates/ MSME certificates/ Articles of Association/Factory registration certificate etc. shall be submitted by the vendor with offer. (ii) The vendor should have successfully supplied the expansion joints of similar design in thermal power plant/FGD outlet duct/similar application in a flue gas path. Unpriced PO copies shall be submitted by the vendor as proof of experience.	
3	Mounting type	Neck design as per enclosed sketch	
4	Location	Absorber to Chimney Duct (for carrying Flue Gas)	
5	Design Temperature	Refer enquiry/indent. Material of Fabric cloth & FRP drain pipe (as applicable) shall be suitable for the design temperature.	
6	Design/ working pressure	Design (-200, + 660)/ 200 mm water column	
7	Expansion	(i)Axial = ± 50 mm ;(ii)Lateral = ± 30 ; (iii)Angular = ± 2 deg	
8	Fabric	(a) PTFE coated glass fabric. (b) Minimum Tensile strength of fabric (in N/50mm) : 6000 (warp) & 6000 (weft).	
9	Backup – plate / Ring (GI)	a)On the back of Cloth- GI Backup Flat - Vendor scope. b)On the back of drain flange(cloth):- GI Back-up Flange - Vendor scope. c)On the Back of FRP Flange:- GI Split Flange – Vendor scope.	
10	Super seal (specification as per vendor's design)	a) In between cloth and duct flange. b) In between cloth and FRP pipe flange.	
11	FRP pipe (NB 80) details (Note: Applicable for Horz. Ducts only)	a) Length equal to width of duct (if supplied in two lengths/pieces- mounting flange, gasket and fasteners also to be provided for connection). One end with dummy flange other end with 90 deg elbow shall be provided. b) Stub length to be gradually increased to maintain 1:50 gradient for free flow of condensate. c) At the bottom of non-metallic expansion joints for every one meter drain hole shall be provided as per enclosed sketch.	

02	01-12-2021	Clause #18 updated	Arun Kumar	V.Kesavan
01	26-11-2021	Revised Generally	Arun Kumar	V.Kesavan
00	25-07-2021	Fresh Release	Arun Kumar	V.Kesavan
REV	DATE	DESCRIPTION	Prepared by	Checked & Approved by

Bidder's sign & seal

12	Fasteners Bolts, nuts & Washers (GI)	a)M16x60 – (i) for mounting cloth with Duct frame - vendor scope. (ii)for mounting Drain flange(cloth) with FRP stub flange – vendor scope. b)M16x80 - For mounting two pieces of FRP pipe (if applicable), and at the end for mounting dummy and elbow – vendor scope. c)M12 U-clamps with nuts & washers – for fastening FRP pipe with support (minimum 2nos for each FRP drain pipe)- vendor scope.	
13	Galvanizing	All galvanized items should have minimum 40 micron coating thickness	
14	Guarantee	Vendor shall guarantee 20,000 hours of operation from the date of commissioning	
15	Documents to be submitted	a) Vendor to submit duly filled, sealed & signed all pages of the specification with confirmation to each point. b) Relevant documents for manufacturer & Unpriced PO copies of previously supplied Non-Metallic Expansion Joints shall be submitted by the vendor as proof of experience. c) Vendor to furnish fabric cloth data sheet with physical and mechanical property along with the offer. d) Deviations (if any) shall be submitted at enquiry stage itself. e) Vendor to provided Quality plan with the offer.	
16	Drawing Approval	Detailed GA drawing of Non-metallic expansion joints including mounting holes arrangement & bill of materials shall be submitted by vendor after placement of PO. Drawing approval from BHEL Ranipet to be obtained for Non-Metallic Expansion Joints after award of contract before manufacturing.	
17	Inspection at vendor works	a) Inspection by BHEL or its authorized agency b) Material Test Certificates shall be submitted during inspection.	
18	Tools required at site	During installation of expansion joints at site, vendor has to arrange all special tools (returnable) for mounting fabric into the duct and FRP connection (like punching tool and Hot sealing tool etc.).	
19	Installation	a) For installation of Non Metallic Expansion Joints & its accessories, vendor has to quote supervision charges on per set basis of Non-Metallic Expansion Joint. Cloth cutting, hot sealing & hole punching in cloth (if anywhere special skill is required) shall be performed by vendor and shall be considered in supervision itself. b) TA/DA, boarding and lodging shall be borne by the bidder and shall be inclusive in the offer. c) Payment of supervision charges shall be made on the basis of set of Non Metallic Expansion Joints installed at site based on site certification. d) After the erection of duct at the respective site, fixing of Expansion Joint into the duct shall be in BHEL scope under the supervision of Vendor's expert.	
20	Packing	Items shall be wrapped in a polythene hessian and the package shall be kept in a wooden box. FRP pipe shall be packed in rigid crates in such a way that during transportation / stacking at site, no external load should contact/damage the pipes. Drawing approval for packing shall be taken from BHEL before dispatch.	
21	Outside the box	PO number , vendor name, item, Site address, Quantity inside the box to be mentioned.	
22	General	a)FRP drain pipe not applicable for Expansion Joints in Vertical Duct. b)FRP drain pipe along with elbow & dummy flange are applicable for joint in horizontal Duct only. c) Duct Flange details/drawings will be provided during detail engineering.	
23	Drawing	Drawing attached (refer next page). Vendor to seal & sign as compliance.	

Bidder's sign & seal



BHARAT HEAVY ELECTRICALS LIMITED

RANIPET – 632 406

QUALITY ASSURANCE (MECHANICAL)

BAP:QA:MECH:228

25.01.2022

Item Name	Indent No.	Indent Date	Work Order	PGMA	Technical Specification
Non Metallic Expansion Joint	RFW11504	17/01/2022	G211-G212	FW252	As per indent specification.

Quality requirements are given below:

1. Physical inspection at manufacturer work applicable by BHEL / BHEL TPI as per SQP:NMEJ:739, Rev. 01 dated 13.02.2021 for Non Metallic Expansion Joint and endorsement from vendor to be obtained for SQP.
2. All the items shall be inspected at manufacturer works as per BHEL approved QP, Drawing, approved data sheet and relevant standard. The supplier shall inform BHEL in advance about the readiness of the goods for inspection and testing. Material test certificates / Inspection reports as per approved quality plan shall be submitted to BHEL.
3. BHEL approved vendor list is acceptable.
4. Packing of the items shall be as per BHEL Engineering approved packing drawing / data sheet / Specification / Packing procedure.
5. Annexure-Q shall be a part of the enquiry file and shall be filled by supplier with their duly sign and seal.
6. Vendor shall confirm following for inspection purpose.
 - a. Latest version of standards & Specification shall be applied
 - b. Materials shall be procured in compliance to Functional Technical Specification.
 - c. Gauges and measuring instruments with valid calibration only shall be used.
 - d. BHEL /BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO.
 - e. Inspection / Inspection wavier / approval by BHEL do not absolve Supplier's responsibility for conformity of the specification as per the terms of PO.
 - f. In case of Vendor Drawing & Datasheet, it needs approval by BHEL Engineering.
 - g. QP shall be read along with relevant PO, BHEL drawing and approved data sheet.



Renjith K
Manager / QA (Mechanical)

BHARAT HEAVY ELECTRICALS LIMITED
RANIPET – 632 406
QUALITY ASSURANCE (MECHANICAL)

BAP:QA:MECH:229

25.01.2022

Item Name	Indent No.	Indent Date	Work Order	PGMA	Technical Specification
Non Metallic Expansion Joint	RFW11503	17/01/2022	G208	FW252	As per indent specification.

Quality requirements are given below:

1. Physical inspection at manufacturer work applicable by BHEL / BHEL TPI as per SQP:NMEJ:739, Rev. 01 dated 13.02.2021 for Non Metallic Expansion Joint and endorsement from vendor to be obtained for SQP.
2. All the items shall be inspected at manufacturer works as per BHEL approved QP, Drawing, approved data sheet and relevant standard. The supplier shall inform BHEL in advance about the readiness of the goods for inspection and testing. Material test certificates / Inspection reports as per approved quality plan shall be submitted to BHEL.
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 - f. In case of Vendor Drawing & Datasheet, it needs approval by BHEL Engineering.
 - g. QP shall be read along with relevant PO, BHEL drawing and approved data sheet.



Renjith K

Manager / QA (Mechanical)

BHARAT HEAVY ELECTRICALS LIMITED
RANIPET – 632 406
QUALITY ASSURANCE (MECHANICAL)

BAP:QA:MECH:227
25.01.2022

Item Name	Indent No.	Indent Date	Work Order	PGMA	Technical Specification
Non Metallic Expansion Joint	RFW11502	17/01/2022	G509-G511	FW252	As per indent specification.

Quality requirements are given below:

1. Physical inspection at manufacturer work applicable by BHEL / BHEL TPI as per SQP:NMEJ:739, Rev. 01 dated 13.02.2021 for Non Metallic Expansion Joint and endorsement from vendor to be obtained for SQP.
2. All the items shall be inspected at manufacturer works as per BHEL approved QP, Drawing, approved data sheet and relevant standard. The supplier shall inform BHEL in advance about the readiness of the goods for inspection and testing. Material test certificates / Inspection reports as per approved quality plan shall be submitted to BHEL.
3. BHEL approved vendor list is acceptable.
4. Packing of the items shall be as per BHEL Engineering approved packing drawing / data sheet / Specification / Packing procedure.
5. Annexure-Q shall be a part of the enquiry file and shall be filled by supplier with their duly sign and seal.
6. Vendor shall confirm following for inspection purpose.
 - a. Latest version of standards & Specification shall be applied
 - b. Materials shall be procured in compliance to Functional Technical Specification.
 - c. Gauges and measuring instruments with valid calibration only shall be used.
 - d. BHEL /BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO.
 - e. Inspection / Inspection wavier / approval by BHEL do not absolve Supplier's responsibility for conformity of the specification as per the terms of PO.
 - f. In case of Vendor Drawing & Datasheet, it needs approval by BHEL Engineering.
 - g. QP shall be read along with relevant PO, BHEL drawing and approved data sheet.



Renjith K
Manager / QA (Mechanical)



MANUFACTURER'S NAME & ADDRESS
 CUSTOMER BHEL/ BHEL APPROVED SOURCE (AS PER PROJECT REQUIREMENT)

STANDARD QUALITY PLAN

ITEM: NON-METALLIC (Fabric) EXPANSION JOINT for FGD Applications.

QP. NO.: NMEJ:739
 Rev No. :01
 Date: 13.02.2021
 Page 1 of 2

PROJECT: AS PER PO.

SL NO	COMPONENT & OPERATION	CHARACTERISTICS	CLASS OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT OF RECORD		Agency			REMARKS
					M	C/N			9	D	M	B	N	
1	2	3	4	5	M	C/N	7	8	9	D	10			11

1.0 RAW MATERIAL

1.1	Clamping Bar	Chemical Composition & Mech. Properties, Galvanizing	Major	Review of MTC Visual	Each Heat	Each Heat	Approved Drawing / Datasheet	MTC/ Lab. TC	√	V	V	V	All galvanized item shall be minimum 40 micron thickness.
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2.0 INPROCESS INSPECTION

2.1	Fabric Material: Fabric(Glass) PTFE Foil Silicon Coated glass Fabric Texlam 1500	Weight	Minor	Measure	One sample per Lot (Lot means item offered for inspection at a time)	Approved Drawing / Datasheet	Report	√	P	V	V	Individual Layers
2.2		Thickness	Major	Measure		Approved Drawing / Datasheet	Report	√	P	V	V	
2.3		Tensile test (wrap & weft)	Major	Mechanical Test		Approved Drawing / Datasheet	Report	√	P	V	V	
2.4		Pin Hole test	Major	Measure		Approved Drawing / Datasheet	Report	√	P	V	V	For PTFE Foil
2.5		Air Permeability	Major	Measure		Approved Drawing / Datasheet	Report	√	P	V	V	For coated & laminated fabrics
2.6		Joint efficiency test – Applicable in case of any joint	Major	Measure		NTPC Approved Drawing / Datasheet/Manufacturer Standard	Report	√	P	W	V	

3.0 FINAL INSPECTION

3.1	Temp withstandability test for composite fabric for surge temp.	Test	Major	Measure	One sample per Lot	NTPC Approved Drawing / Datasheet/Manufacturer Standard	Report	√	P	W	W	(Lot means item offered for inspection at a time)
3.2	Flexibility test	Test	Major	Measure	One sample per Lot	NTPC Approved Drawing / Datasheet/Manufacturer Standard	Report	√	P	W	W	

Legends:
 M – Manufacturer / Subcontractor,
 C – Main Contractor / BHEL /BHEL Authorized Inspection Agency,
 N – Customer / NTPC, P - perform, TC – Test Certificate
 V - Verification of reports, COC – Certificate of conformance - Witness, TC - Test certificate
 "D" – Record, identified with tick (√) shall be essentially included by Supplier in QA documentation.
 NMEJ- Non-Metallic Expansion Joint.

Prepared by

Reviewed by

Approved by

[Signature]
13/02/2021

[Signature]
13/02/2021


[Signature]
13/2/2021

Manufacturer Sign & Seal

Rakesh Kr Madhu (Dy.Mgr/QA)

K Renjith (Manager/QA)

R Arunachalam (DGM/QA)

MANUFACTURER'S NAME & ADDRESS				STANDARD QUALITY PLAN				PROJECT: AS PER PO.						
 Ranipet CUSTOMER BHEL/ BHEL APPROVED SOURCE (AS PER PROJECT REQUIREMENT)				ITEM: NON-METALLIC (Fabric) EXPANSION JOINT for FGD Applications.				QP. NO.: NMEJ:739 Rev No. :01 Date: 13.02.2021 Page 2 of 2						
SL NO	COMPONENT & OPERATION	CHARACTERISTICS	CLASS OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		Agency			REMARKS
					M	C/N			M	B	N			
1	2	3	4	5	M	C/N	7	8	9	D	10			11

3.3	Expansion Joints.	Dimension & Finish	Major	Visual & Dimensional	100%	100%	As per Approved Drawing / Specification/Datasheet	Report	√	P	W	W	
3.4	Packing,	Visual	Minor	Verification	100%	100%	As per P.O Drawing/Specification	COC	√	P	V	-	

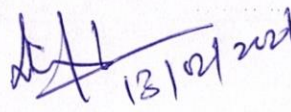
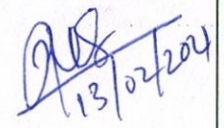
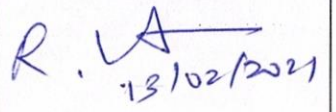
@@ In case of Project / Customer specific requirements, inspection stage / type of check / Quantum of check may change.

Notes:

1. Latest version of standards & Specification shall be applied.
2. All the critical Dimensions shall be checked for dimensional conformity.
3. Materials shall be procured in compliance to Functional Technical Specification.
4. Gauges and measuring instruments with valid calibration only shall be used.
5. Inspection / Inspection waiver / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO.
6. BHEL /BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO.
7. This QP is applicable for Mandatory spare also as applicable.
8. This QP shall be read along with relevant PO, Approved drawing/Specification/Approved datasheet as applicable.
9. Loose Items/Items minor in nature, which are not covered under this QP.Manufacture COC/TC Shall, be reviewed by Inspection agency.

Record of revision

Rev no	Date	Description
00	07.03.2020	Original Issue (First Submission)
01	13.02.2021	Based on Customer requirement

Manufacturer Sign & Seal	Legends: M – Manufacturer / Subcontractor, C – Main Contractor / BHEL /BHEL Authorized Inspection Agency, N – Customer / NTPC, P - perform, TC – Test Certificate V - Verification of reports, COC – Certificate of conformance - Witness, TC - Test certificate "D" – Record, identified with tick (√) shall be essentially included by Supplier in QA documentation. NMEJ- Non-Metallic Expansion Joint.	Prepared by	Reviewed by	Approved by	
		 13/02/2021	 13/02/2021	 13/02/2021	Rakesh Kr Madhu (Dy.Mgr/QA)

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.		
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	<p>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.</p>	
5	<p>Inspection before despatch for domestic supplier : Inspection before despatch at supplier's works shall be carried out by BHEL appointed Inspection agency (as in Sl no. 2). Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet .</p>	
6	<p>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.</p>	
7	<p>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.</p>	
8	<p>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.</p>	
9	<p>Packing / Seaworthy Packing shall be as per BHEL Packing schedule / approved drg / sketch. This shall be ensured to take care transit / handling / transshipment in Road / Sea / Air. Photographs are to be submitted for BHEL review before despatching the material as per contract conditions.</p>	
10	<p>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.</p>	
11	<p>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.</p>	
12	<p>## 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.</p>	
<p>VENDOR SIGN AND STAMP:</p>		<p>Vendor Name & Address:</p>

Form - 1**Subject:** Public Procurement (Preference to Make In india)**References:**

- 1.P-45021/2/2017-B.E-II dated. 15th June-2017,
- 2.P-45021/2/2017-PP(BE-II) dated. 28th May-2018 ,
- 3.P-45021/2/2017-PP(BE-II) dated. 29th May-2019.
- 4.P-45021/2/2017-PP(BE-II) dated. 4th June-2020

We hereby declare with reference to above subject and references that M/s --
 -----(Tick whichever is applicable as below)

"Class-I local supplier" meeting the requirement of minimum local content equal to 50%(fifty percent) or more defined in the above government notification for the goods and services (or)

"Class-II local Supplier" meeting the requirement of local content 20% to less than 50%(fifty percent) defined in the above government notification for the goods and services

Please mention the details against the following:

Enquiry no:----- dated. -----

Type of Supplier (Class-I/Class-II)

Product:-----

Project:.....

Details of location at which local value addition will be made is as follows:

We also understand that the false declarations will be in breach of the code of Integrity under rule 175(1)(i)(h) of the General financial rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Authorized Signature M/s _____

(Signature and seal)

Place:.....

Date:.....

From.

M/s _____

Address: _____

Form – 2

I/we are bidder from _____ (Address with country). We do not belong to any of the below category mentioned.

1. Any of entity/office/workshop of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.
2. Any of subsidiary of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.
3. Any of entity/office/workshop of your organisation/incorporation, controlled in a country sharing land border with India, If yes, provide the full address of all such locations.
4. Any of entity whose beneficial owner is situated in a country sharing land border with India, If yes, provide the full name, address of all such locations.
5. Any Indian Agent available, If so, Provide details of address and contacts.
6. Any employee/directors who is/are citizen of country sharing land border with India, If yes, provide the full name, employee code and address of all such locations.
7. Any of consortium/joint venture of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.

Meaning of beneficial owner

- 1) In case of a company or limited liability partnership, beneficial owner is the natural person, who, whether acting alone or together, or through one or more judicial person, has a controlling ownership interest or who exercises control through other means.

Explanation

- a) Controlling ownership interest means ownership of or entitlement to more than twenty-five percent of shares or capital or profits of the company.
- b) “control” shall include the right to appoint majority of the directors or to control the management rights or shareholder’s agreement or voting agreement.
- 2) In case or a partnership firm the beneficial owner is the natural person (s) who whether acting alone or together or through one or more judicial person, has ownership of the entitlement to more than fifteen percent of capital or profits of the partnership.
- 3) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together or through one or more judicial person, has ownership of the entitlement to more than fifteen percent of the property or capital or [profits of such association or body of individual.
- 4) Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.
- 5) In case of a trust, the identification of beneficial owner (s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust and any other

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natural person exercising the ultimate effective control over the trust through a chain of control of ownership.

- 6) An agent is a person employed to do any act for another, or to represent another in dealing with third person.

We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India, we hereby declare that we do not belong to any such country and are eligible to be considered.

In case, any of information is found to be false, even after bid acceptance, immediate termination may happen and action will be taken as per law.

Format is being filled without altering any of the clause mentioned in the given format**

Dated: _____

Authorised Sign and stamp _____

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

Bharat Heavy Electricals Limited,
Boiler Auxiliaries Plant,
RANIPET -632 406,
Tamil Nadu,
INDIA

Dear Sirs,

In consideration of the **Bharat Heavy Electricals Limited** 1 (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at "**BHEL House**", **SIRI Fort, New Delhi- 110049** through its Unit at **Boiler Auxiliaries Plant located at Ranipet-632406, Tamil Nadu, INDIA** having awarded to 2 having its registered office at _____ herein after referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No. / **PO No** _____ dated 3. Valued at Rs _____ 4 (Rupees (In words) _____) for _____ 5 (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee equivalent to 10% (Ten Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract.

We _____ (hereinafter referred to as the Bank), having registered/Head Office at _____ and inter alia a branch at _____ being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs _____ (**Rupees** _____) without any demur, immediately on a demand from the Employer. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding **Rs. _____ (Rupees _____)**.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the contractors/supplier shall have no claim against us for making such payment.

We the _____ bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We _____ BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force up to _____ 6 with a validity period of ___ months & claim period of 3 months and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the _____ 7 we shall be discharged from all liabilities under this guarantee thereafter.

We _____ BANK, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed Rs _____ (Rupees _____ Only) 8
- b) This Guarantee shall be valid up to _____ 9
- c) Unless the Bank is served a written claim or demand on or before _____ 10 all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dtd :

Place of Issue:

1. NAME AND ADDRESS OF EMPLOYER i.e., Bharat Heavy Electricals Limited.
2. NAME AND ADDRESS OF VENDOR/CONTRACTOR/SUPPLIER
3. DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE
4. BG AMOUNT IN FIGURES AND WORDS
5. PROJECT/SUPPLY DETAILS
6. VALIDITY DATE with a validity of 3 months claim period.
7. DATE OF EXPIRY OF CLAIM PERIOD
8. BG AMOUNT IN FIGURES AND WORDS
9. VALIDITY DATE
10. DATE OF EXPIRY OF CLAIM PERIOD

Ple note: The Validity period wrt our conditions applicable for the Supply / Erection & condition.

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BHARAT HEAVY ELECTRICALS LIMITED

BAP – Ranipet, 632406

MM – PURCHASE Department (FGD)

Pls attach fabric data sheet

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BHARAT HEAVY ELECTRICALS LIMITED

BAP – Ranipet, 632406

MM – PURCHASE Department (FGD)

Pls attach Financial doc

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BHARAT HEAVY ELECTRICALS LIMITED

BAP – Ranipet, 632406

MM – PURCHASE Department (FGD)

Pls attach MSE or startup certificate, as applicable

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BHARAT HEAVY ELECTRICALS LIMITED

BAP – Ranipet, 632406

MM – PURCHASE Department (FGD)

Pls attach Technical PQR