



BHARAT HEAVY ELECTRICALS LIMITED

BAP – Ranipet, 632406

MM – PURCHASE Department (FGD)

NIT

Date: 17-08-2022

BHEL Ranipet Enq for.: Rubber Expansion Joint dt 30-04-2022

Sub: Requirement for “Design, Manufacture, Pre-dispatch inspection, Packing, Forwarding, dispatch, transportation, and Supply of Rubber expansion joint” for BHEL Site by BHEL-Ranipet.

Scope of supply: As subjected above in confirmation with Quality plan and tech Spec. The package consists of:

Sch	Material code	DESCRIPTION	Qty set	Delivery req	Quoted/ Not quoted
1	96F230300000	300 NB Rubber Expansion Joint	150	24-11-2022	
2	96F230350000	350 NB Rubber Expansion Joint	400	24-11-2022	

Destination: Stores-Incharge, Ward N1, Sub-delivery stores, East Gate, BAP BHEL Ranipet 632406 TN

Delivery required date: As per above table or within 6 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	Bidder should be original manufacturers or OEM authorized distributor /agent/trader. Relevant documentary evidence for manufacturer or valid dealership certificate shall be provided.	
2	Suppliers shall indicate their experience for the tendered specifications. Copy of 1 set of PO, Invoice with co-related test certificates to be submitted for Rubber Expansion Joints or similar product. Documents should not be older than 3years from tender opening date.	
3	Suppliers shall not have been banned / black listed / by BHEL Ranipet or any other unit/region/sector of BHEL. Self declaration shall be provided.	
4	Confirmation to the Specification / Drawing / Dimension / Size, Quality plan and Inspection check list. Signed copy Technical specification FWQS:024 shall be submitted as a proof of conformity.	
5	Compliance to all provision of Technical Bid Documents. Signed copy of “Certificate of Compliance” for Nil Technical Deviation- Format attached in bid document	
6	BHEL reserves the right to verify information / confirmation furnished by asking additional documents Proofs etc.	



BHARAT HEAVY ELECTRICALS LIMITED

BAP – Ranipet, 632406

MM – PURCHASE Department (FGD)

7	BHEL reserves the right to visit supplier's works to audit and inspect to ensure the capability for technical evaluation.	
8	Compliance to all the above Pre-qualification requirements is mandatory. In absence of PQR compliance vendor's offer are liable for rejection	
9	Declaration: We understand that all the proofs/documents submitted by our firm for all the above points are subject to verification and in case BHEL finds any discrepancy in any of the documents submitted by us like fake/false/forged documents, Certificates or information, action may be taken against our firm as per extant guidelines of BHEL.	
SL	Pre-Qualification Requirement (PQR)	Bidder's Reply with Supportive documents

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 CI (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. Packing list and weighment details shall be sent for release of GMS by Engineering-BAP. Base on release of GMS, CoC No shall be issued by QC-BHEL. On receipt of CoC, and packing list, request letter from commercial-BAP to be submitted to QC-BHEL for issue of MDCC.
- (c). **Packing requirement:** Packing shall be waterproof packets, and the material code with description & Supplier name shall be marked on the packing such that the transit and weather damages shall be avoided.
- (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, Line item basis L1 shall be taken for comparison and Ordering. Each item shall be ordered separately.
- (f). **Delivery Location:** FOR destination Stores-Incharge, Ward N1, Sub-delivery stores, East Gate, BAP BHEL Ranipet 632406 TN



BHARAT HEAVY ELECTRICALS LIMITED

BAP – Ranipet, 632406

MM – PURCHASE Department (FGD)

Note:

1. Quote shall be in INR only **inclusive of Taxes (GST)**.
2. MSE firm shall upload the UDYAM portal registration certificate
3. Relevant documents/formats are attached in Additional scope of GeM bid. Documentary evidences shall be uploaded for PQR
4. Quoted rate shall be inclusive of GST, as per GeM terms and condition.
5. Non Submission of any of required documents as listed below, attracts for offer rejection.
6. Package wise package basis evaluation methodology shall be adopted
7. Jurisdiction at Ranipet shall be applicable
8. Payment: 100% Payment in 90 days (45 days for MSE and 60 days for medium category against the submission of UDYAM certificate, UAM shall not be accepted for any benefit under MSME norms.)

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

1. NIT copy
2. Tech spec (BHEL and customer) along with all annexures filled in along with all annexures
3. Filled in QAP (Sample attached) along with CQR and annex Q
4. Filled-in Make in India declaration on Letter head (format attached)
5. Udyam portal registration copy if MSE bidder
6. PQR-Technical documents
7. CoC format

For any query: Kindly provide the “REJ” 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.

994669/2022/BAP-9781_COML

**Pre-Qualification Requirement
To**

**Participate in Tender for Rubber Expansion Joint Procurement
(To be submitted along with Offer for Technical BID Evaluation)**

Following are the Pre-Qualification Requirement


SI No.	Criteria	Document proofs to be submitted	Bidder Compliance (Yes/No/Comment)
01	Bidder should be original manufacturers or OEM authorized distributor /agent/trader.	Certificate of being original manufacturer. A valid OEM authorization letter in case of Distributor /Agent/ Trader	
02	Suppliers shall indicate their experience for the tendered specifications.	Copy of 1 set of PO, Invoice with co-related test certificates to be submitted for Rubber Expansion Joints or similar product. Documents should not be older than 3years from tender opening date.	
03	Suppliers shall not have been banned / black listed / by BHEL Ranipet or any other unit/region/sector of BHEL.	Self-declaration to be submitted	
04	Confirmation to the Specification / Drawing / Dimension / Size, Quality plan and Inspection check list.	Signed copy Technical specification FWQS:024 shall be submitted as a proof of conformity.	
05	Compliance to all provision of Technical Bid Documents.	Signed copy of "Certificate of Compliance" for No Technical Deviation- Annexure-02 MPLG SDDR	




- BHEL reserves the right to verify information / confirmation furnished by asking additional documents Proofs etc.
- BHEL reserves the right to visit supplier's works to audit and inspect to ensure the capability for technical evaluation.
- Compliance to all the above Pre-qualification requirements is mandatory. In absence of PQR compliance vendor's offer are liable for rejection.

Declaration:

We understand that all the proofs/documents submitted by our firm for all the above points are subject to verification and in case BHEL finds any discrepancy in any of the documents submitted by us like fake/false/forged documents, Certificates or information, action may be taken against our firm as per extant guidelines of BHEL.

Bidder's Seal & Signature

	Bharat Heavy Electricals Ltd Boiler Auxiliaries Plant Ranipet-632 406	FLUE GAS DESULPHURISATION DEPT. TECHNICAL SPECIFICATION
	TECHNICAL SPECIFICATION: FWQS:024	

00	25/06/2021	FRESH RELEASE	 ANUPAM KUSHWAHA	 SHANMUGA SUDARAM S	 V.KESAVAN
REV	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

Sl.no	Item	RUBBER EXPANSION JOINTS/BELLOWS FOR PIPELINE	Vendor Acceptance/ Comments
1	Scope of supply	1) Design, manufacture, testing and supply of Rubber Expansion Joints for pipeline in the duty condition as specified in technical datasheet. 2) Vendor to provide both side swiveling metal flanges along with fastener (galvanized). Counter/Companion flange shall be in the BHEL scope. 3) Vendor to provide galvanised control rods (tie rod), bolts, nuts and washers. Note: Control Plates (shall be welded type with flanges)	
2	Eligibility criteria	1) Vendor should be a manufacturer of Rubber Expansion Joints. 2) List of customers to whom Rubber Expansion Joints of similar size supplied, unpriced PO Copy to be furnished along with offer. 3) Previous inspection/ test report to be furnished for the similar sizes along with offer.	
3	Sizes	350NB,300NB,200NB,150 NB,125 NB & 100 NB	
4	Application-Fluid	Gypsum Slurry : 350NB,300NB & 200NB Air/Water : 150NB,125NB & 100NB	
5	Type	Filled Single Arch Type for: 350NB, 300NB & 200NB sizes Open Single Arch Type for : 150NB,125 NB & 100NB sizes	
6	Flange	All holes and dimensions shall be as per ANSI B16.5 Class 150	
7	Connection Type	Minimum One side flange will be loose/slip-on swivelling type. Note: Flanges will be in single piece of both ends. Split type of flange is not acceptable.	
8	Galvanizing	Flange, Control Plates, Control Rods, Nuts & Washers all shall be galvanized-40μ thick.	

Bidder's seal & signature

9	Sample requirement	<p>During enquiry stage, one number of typical sample of rubber expansion joint to be sent to BHEL for review.</p> <p>Note: Vendors who have earlier sent their REJ sample vide the tender enquiry no. 3800029E dtd. 25/04/2020 need not to send again. Other new vendors must send their typical sample of REJ to BHEL.</p>	
10	Inspection at vendor works	<ol style="list-style-type: none"> 1) Inspection by BHEL or its authorized agency. 2) Material Test Certificates shall be submitted during inspection. 	
11	Document	<ol style="list-style-type: none"> 1) The Vendor shall furnish point wise reply and submit seal & signed copy of this technical specification. 2) The Vendor shall submit the dimensional drawings / catalogues indicating M.O.C and weight along with the offer for information. 3) Vendor to provided Quality plan with the offer. 	
12	Packing	<ol style="list-style-type: none"> 1) Rubber Expansion Joints of each size/ Type/ rating/ Standard/ Material should be suitably packed separately. Each package shall marked with same details so that the Expansion Joints shall be Identified easily. 2) The part items of the equipment should be identified by the tag numbers and should be packed as to minimize the possibility of damage during storage or transit. The equipment shall be protected for a storage of 12 months at site, if any extra precaution is to be taken by the Purchaser for storage beyond 12 months the same shall be explicitly indicated in the operation and maintenance manuals. 	
13	Outside the box	PO number, vendor name, item size, material code, model number, quantity inside the box, gross weight and net weight to be mentioned.	
14	Drawing	Typical drawing (Illustrative purpose only) of REJ is attached for reference.	

TECHNICAL DATASHEET FOR RUBBER EXPANSION JOINTS:

Data Sheet for Rubber Expansion Joints for (Flue Gas Desulphurization)FGD Projects							
S. No.	1	2	3	4	5	6	7
Location	RC Spray Header	RC Spray Header	JAS Input	JAS Input / Mist Eliminator Washing Pipe Inlet	Mist Eliminator Washing Pipe Inlet	Mist Eliminator Washing Pipe Inlet	Vendor to Confirm
Flow media	Gypsum Slurry	Gypsum Slurry	Gypsum Slurry	Air/ Water	Water	Water	
Purpose	Anti-Vibration/ Displacement	Anti-Vibration/ Displacement	Anti-Vibration/ Displacement	Anti-Vibration/ Displacement	Anti-Vibration/ Displacement	Anti-Vibration/ Displacement	
Pipe Size	NB 350	NB 300	NB 200	NB 150	NB125	NB 100	
Arch type	Filled	Filled	Filled	Open	Open	Open	
Face-To-Face Length (including rubber lining)	200 mm	150 mm	150 mm	150 mm	150 mm	150 mm	
Service conditions	Operating Temp. (Deg.C)	70	70	100	100	70	70
	Design Temp. (Deg.C)	80	80	110	110	80	80
	Working pressure (g) kg/cm ²	4	4	4	8	8	8
	Hydro Test Pressure kg/cm ² (g)	6	6	6	12	12	12
	Installation Position	Horizontal / Vertical/ Inclined	Horizontal/ Vertical/ Inclined	Horizontal/ Vertical/ Inclined	Horizontal/ Vertical/ Inclined	Horizontal/ Vertical/ Inclined	Horizontal/ Vertical/ Inclined
Shore Hardness		65±5 shore A	65±5 shore A	65±5 shore A	65±5 shore A	65±5 shore A	65±5 shore A
Axial Movement (mm)	Compression	30	30	30	19	19	19
	Extension	17	17	17	11	11	11
Lateral Movement (mm)		19	19	16	16	16	16
Flange Details	O.D. (mm)	534	483	343	279	254	229
	PCD (mm)	476.2	431.8	298.5	241.3	215.9	190.5
	Hole Dia. (mm)	28.4	25.4	22.2	22.2	22.2	19.1
	No. Of Hole (nos.)	12	12	8	8	8	8
	Thickness (mm)as per ANSI B16.5	35	32	28	25	24	24
Tie Rod Length (mm)		380±5	300±5	300±5	300±5	300±5	300±5
Tie Rod dia. (Ø)mm		Ø24	Ø24	Ø16	Ø16	Ø16	Ø16

Bidder's seal & signature

Material of Construction:

Fixed Flange	IS 2062+ Chloroprene Rubber	
Loose Flange	IS 2062+ Chloroprene Rubber	
Rubber Outer Cover	EPDM	
Reinforcing Fabric	Chemical fibre	
Reinforcing Cord	Chemical fibre	
Rubber Inner Tube	Chloroprene Rubber	
Control Ring/Plate (Control plates will be welded on the flanges. Bolted type is not acceptable)	IS 2062 Gr. A	
Tie Rod/control bolt	IS:1367 CL 6.8 With 40 μ Galvanised	
Nut, Lock nut & Washer	IS:1367 CL 6.0 With 40 μ Galvanised	

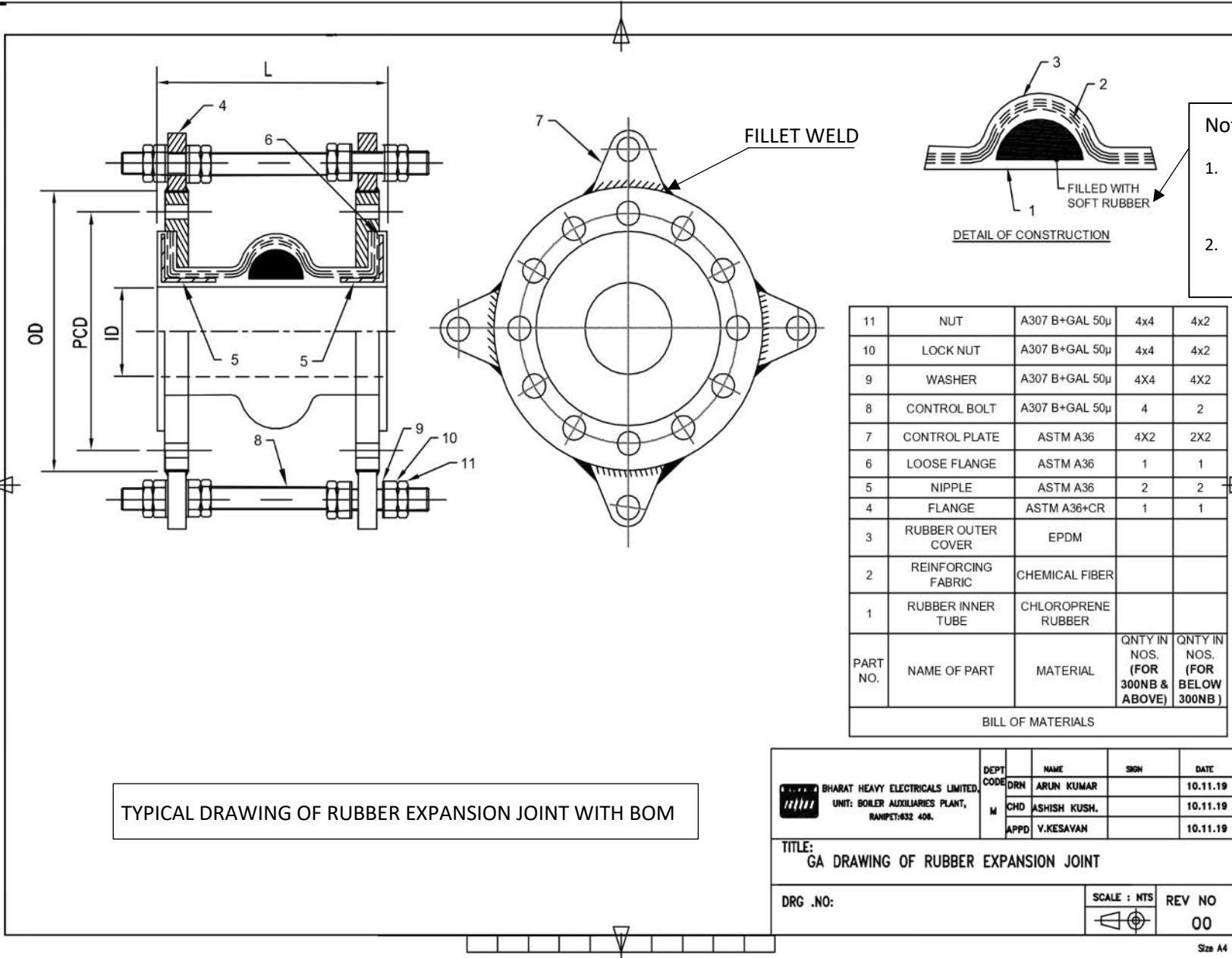
Remarks: One Set of Rubber Expansion joint/bellow consists of following items explained in below table-

Items	350 NB/300 NB	200NB/150NB/125NB/100NB	Vendor Acceptance /Comments
Bellow	1 no.	1 no.	
Flange(1 fixed +1 slip on)	2 nos.	2 nos.	
Control plates	8 nos.	4 nos.	
Tie rod/Control bolts	4 nos.	2 nos.	
Nut	16 nos.	8 nos.	
Lock Nut	16 nos.	8 nos.	
Washer	16 nos.	8 nos.	

Bidder's seal & signature

REV NO:00

SPECIFICATION NO: FWQS:024



TYPICAL DRAWING OF RUBBER EXPANSION JOINT WITH BOM

Note:

1. Not applicable to sizes 150NB, 125NB, & 100NB.
2. Applicable to only sizes 350NB, 300NB & 200NB

11	NUT	A307 B+GAL 50 μ	4x4	4x2
10	LOCK NUT	A307 B+GAL 50 μ	4x4	4x2
9	WASHER	A307 B+GAL 50 μ	4X4	4X2
8	CONTROL BOLT	A307 B+GAL 50 μ	4	2
7	CONTROL PLATE	ASTM A36	4X2	2X2
6	LOOSE FLANGE	ASTM A36	1	1
5	NIPPLE	ASTM A36	2	2
4	FLANGE	ASTM A36+CR	1	1
3	RUBBER OUTER COVER	EPDM		
2	REINFORCING FABRIC	CHEMICAL FIBER		
1	RUBBER INNER TUBE	CHLOROPRENE RUBBER		
PART NO.	NAME OF PART	MATERIAL	QNTY IN NOS. (FOR 300NB & ABOVE)	QNTY IN NOS. (FOR BELOW 300NB)
BILL OF MATERIALS				

BHARAT HEAVY ELECTRICALS LIMITED, UNIT: BOILER AUXILIARIES PLANT, RANIPET:632 406.	DEPT	NAME	SIGN	DATE
	CODE	DRN	ARUN KUMAR	10.11.19
	M	CHD	ASHISH KUSH.	10.11.19
		APPD	V.KESAVAN	10.11.19
TITLE: GA DRAWING OF RUBBER EXPANSION JOINT				
DRG .NO:			SCALE : NTS	REV NO
				00

Size A4

Bidder's seal & signature

Quality Assurance (Mech)
CONTRACT QUALITY REQUIREMENT (CQR)

MPLG: FGD: NMEJ: 535


Dt. 12-08-2022

PROJECT	INDENT NO	PGMA	TECHNICAL SPECIFICATION
MOUDA(2X500 MW), NORTH KARANPURA (3X660 MW), BARH-I(3X660 MW), BARH-II (2X660 MW) and PANKI (1X660 MW)	P85127731	FW223	FWQS 024:R00,D T:25.06.2021



Item Name: RUBBER (NON-METALLIC) EXPANSION JOINT


1. All the items shall be inspected at Manufacturer works as per BHEL QP/ Approved Drawing/Approved datasheet and Technical Specification.
2. Physical Inspection shall be done by BHEL/BHEL AIA at Manufacturer works.
3. BHEL Approved source is acceptable.
4. Arrange Vendor acceptance for BHEL QP (EXP JOINT: 392/02, DT: 09.02.2022) with their duly sign and seal.
5. NTPC or Any other Customer latest approved QP if any for similar application available with vendor may be shared on Vendor specific.
6. Packing of items shall be as per BHEL Engg Approved Packing Drawing/Technical Specifications.
7. BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO. The supplier shall inform BHEL in advance about the readiness of the goods for inspection and testing. Inspection / Inspection wavier / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO. Material Test Certificates shall be submitted to BHEL.
8. Annexure 'Q' shall be part of enquiry File and shall be filled by Supplier with their duly sign and seal.
9. **General Inspection Notes:**
 - 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. Inspection / Inspection wavier / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO.
 - e. BHEL /BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO.
 - f. In case of Vendor Drawing & Datasheet, it needs approval by BHEL Engineering.
 - g. This QP shall be read along with relevant PO, BHEL Specification / Approved Drawing/Datasheet.

This is for your information and further necessary action at your end please.

 MANUFACTURER'S NAME & ADDRESS BHEL/ BHEL APPROVED SOURCE Ranipet		STANDARD QUALITY PLAN						PROJECT: AS PER PO.						
		ITEM: RUBBER EXPANSION JOINT			QP. NO.: EXPANSION JOINT :392 Rev No. :02 Date: 09.02.2022 Page 1 of 3									
SL NO	COMPONENT & OPERATION	CHARACTERISTICS	CLASS OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT OF RECORD		Agency			REMARKS
					M	B/C			6	7	8	9	D	
1	2	3	4	5	M	B/C	7	8	9	D	10	11		

1.0 RAW MATERIALS *														
1.1	Polymer Identification	Physical Properties	Major	Qualitative Analysis /Testing	1 Sample/Lot /Melt /Heat	1 Sample/Lot/Melt /Heat	BHEL Spec. / Approved Drawing	Presence of Butyl Rubber	Test Certificate.	√	P	V	-	(*As per Tech Spec/ Approved Drawing/ Data sheet)
1.2	Rubber (Physical Properties)	a) Tensile Strength	Major	Testing	1 Sample/Lot /Melt /Heat	1 Sample/Lot/Melt /Heat	Approved Drawing / Data sheet	Approved Drawing/ Data sheet	Test Report	√	P	V	-	
		b) Elongation at Break	Major	Testing	1 Sample/Lot /Melt /Heat	1 Sample/Lot /Melt /Heat	Approved Drawing / Data sheet	Approved Drawing / Data sheet	Test Report	√	P	V	-	
		c) Shore Hardness	Major	Test	1 Sample/Lot /Melt /Heat		ASTM D-2240	65±5° Sh.A (As per Relevant Std)	Test Report	√	P	V	-	
1.3	EPDM Rubber	a) Tensile Strength	Major	Testing	1 Sample/Lot /Melt /Heat	1 Sample/Lot /Melt /Heat	ASTM D-412	Minimum 80Kg/cm2	Test Report	√	P	V	-	
		b) Elongation at Break	Major	Testing	1 Sample/Lot /Melt /Heat	1 Sample/Lot /Melt /Heat	ASTM D-412	Minimum 250%	Test Report	√	P	V	-	
		c) Shore Hardness	Major	Measurement	1 Sample/Lot /Melt /Heat		ASTM D-2240	65±5° Sh.A	Test Report	√	P	V	-	

Manufacturer Name	Legends: M – Manufacturer / Subcontractor, B - BHEL /BHEL Authorized Inspection Agency, C - Customer, P - perform, V - Verification of reports W - Witness, TC - Test certificate "D" – Record, identified with tick (√) shall be essentially included by Supplier in QA documentation.	Prepared by	Reviewed and Approved by
Sign & Stamp with Date		 Rakesh Kr Madhu (Dy Manager / QA)	 K Renjith (Manager / QA)

 Ranipet	MANUFACTURER'S NAME & ADDRESS	STANDARD QUALITY PLAN					PROJECT: AS PER PO.				
	BHEL/ BHEL APPROVED SOURCE	ITEM: RUBBER EXPANSION JOINT	QP. NO.: EXPANSION JOINT :392 Rev No. :02 Date: 09.02.2022 Page 2 of 3								



SL NO	COMPONENT & OPERATION	CHARACTERISTICS	CLASS OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT OF RECORD		Agency			REMARKS
					6				9	D	M	B	C	


1.4	Metal Flange & Stretcher Olate	Chem. & Mech. Test (Tensile, Elongation, at Break and Yield strength)	Major	Testing	1 Sample for Entire Supply	ASTM A36	ASTM A36	Test Certificates	√	P	V	-	
1.5	Control Rods	DO	Major	Testing	1 Sample/Lot /Melt / Heat	ASTM A 307 Gr.-B	ASTM A307 Gr.-B	Test Certificates	√	P	V	-	
1.6	Nut & Lock Nut	Chem. & Mech. Properties (Hardness & Proof Load)	Major	Profile Inspection (Reduced Scope)	1 Sample/Lot /Melt / Heat	ASTM A307B + GAL+50μ / BHEL Spec. / Drawing		Test Certificates	√	P	V	-	
1.7	Final Product	Rubber Bellows Visual & Dimensional Conformity	Major	Measurement	1 Sample/Lot /Melt / Heat	As per Approved Drawing	As per Approved Drawing	Report	√	P	V	-	

2.0 FINAL INSPECTION

2.1	Hydrostatic Test	Hydro test	Major	Testing	1 Sample/Lot /Melt / Heat	As per Approved./ Drawing/Data sheet	No Leakage	Test Report	√	P	W	-	Duration of Hydro test shall be 10 Minutes
2.2	Deflection Check	Deflection Test	Major	Testing in Axial Compression by 10 mm.	1 Sample/Lot /Melt / Heat	Technical Specification/ As per Approved./ Drawing/Data sheet/ Relevant Standard	Technical Specification/ As per Approved./ Drawing/Data sheet/ Relevant Standard	Test Report	√	P	W	-	Duration of all the Deflection Test shall be 2 minutes.
				In Axial Elongation by 10 mm.				Test Report	√	P	W	-	
				Lateral Deflection by 10 mm				Test Report	√	P	W	-	



3.0 PACKING & PRESERVATION

Manufacturer Name	Legends: M – Manufacturer / Subcontractor, B - BHEL /BHEL Authorized Inspection Agency, C - Customer, P - perform, V - Verification of reports W - Witness, TC - Test certificate "D" – Record, identified with tick (√) shall be essentially included by Supplier in QA documentation.	Prepared by	Reviewed and Approved by
Sign & Stamp with Date		 Rakesh Kr Madhu (Dy Manager / QA)	 K Renjith (Manager / QA)

 MANUFACTURER'S NAME & ADDRESS BHEL/ BHEL APPROVED SOURCE Ranipet		STANDARD QUALITY PLAN						PROJECT: AS PER PO.					
		ITEM: RUBBER EXPANSION JOINT			QP. NO.: EXPANSION JOINT :392 Rev No. :02 Date: 09.02.2022 Page 3 of 3								
SL NO	COMPONENT & OPERATION	CHARACTERISTICS	CLASS OF CHECK	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT OF RECORD	Agency			REMARKS
					M	B/C				M	B	C	
1	2	3	4	5	M	B/C	7	8	9	D	10	11	
3.1	Packing	Verification	Major	Verification of packing	100%	100%	Plant procedure and Packing	PO/Specification/ Drawing	Paint and packing Report	√	P	V	-
Notes: 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. Inspection / Inspection waiver / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO. e. BHEL /BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO. f. In case of Vendor Drawing & Datasheet, it needs approval by BHEL Engineering. g. This QP shall be read along with relevant PO, BHEL Specification / Approved Drawing/Datasheet.													

RECORD OF REVISION

REV NO	DATE	DESCRIPTION
00	04.02.2020	Original Issue – First submission
01	05.02.2020	Revised based on feedback from QC-proc.
02	09.02.2022	QP Class 1.1 updated.

Manufacturer Name	Legends: M – Manufacturer / Subcontractor, B - BHEL /BHEL Authorized Inspection Agency, C - Customer, P - perform, V - Verification of reports W - Witness, TC - Test certificate "D" – Record, identified with tick (√) shall be essentially included by Supplier in QA documentation.	Prepared by	Reviewed and Approved by
Sign & Stamp with Date		 Rakesh Kr Madhu (Dy Manager / QA)	 K Renjith (Manager / QA)

Annexure to Enquiry no:		Date	##Specific confirmations by the manufacture
Sl.No	BHEL / Customer Requirement		
1	Quality Plan Requirement:		
1a	MQP (Manuafcutering Quality Plan) shall be submitted in attached format for BHEL/Customer review & approval. Typical MQP is attached for indicative purposes for guidance & use.		
1b	MQP shall invariably cover w.r.t Inward inspection including on Raw materail Procurement, In process and Final inspection in elaborated way/details.		
1c	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.		
1d	No deviation on BHEL/Customer approved MQP is acceptable.		
1e	Bidder shall agree to submit all cross referred documents other than codes/standrads to BHEL/Customer/Consultant.		
2	Important Notes shall be included in MQP : (a) Latest revision of Standard s & Specification shall apply. Only International Standards are applicable. Indian & Chinese Standards are not 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 Section V. (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 Section V.		
3	Domestic / Inland Inspection will be carried out by BHEL/BHEL apointed Third Party Inspection Agency (TPIA) / Customer/Customer Apointed Inspection Agency/Consulatnat. 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 Instrumentaion Diagram / Process Flow Diagram / Single Line Diagram) etc (As applicable). "The inspection charges at actuals incurred by BHEL will be loaded to compare with foreign suppliers".		
4	Inspection Agency for Foreign Bidders and also for Indian Bidder but importing from Forgign Sources: (1) Any one of the flollowing 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 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.		
5	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 clearanace for further processing. This inspection call shall be given well in advance (atleast 2 weeks before) to TPI/Bidder's own inspection agency to avoid delay in the manufacturing processes.		
6	Inspection before despatch for domestic supplier : Inspection before despatch at supplier's works shall be carried out by BHEL/BHEL appointed Inspection agency. Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet .		

Sl.No	BHEL / Customer Requirement	##Specific confirmations by the manufacture
7	<p>Inspection at Foreign Source/Supplier: (a) As in sl no: 3. shall be ensured without fail, (b) No materail / items shall be despatched without getting the written communication from BHEL / Customer inspection carried out by BHEL/BHEL apointed Third Party Inspection Agency (TPIA) / Customer/Customer Apointed Inspection Agency/Consulatnat. 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 Instrumentaion Diagram / Process Flow Diagram / Single Line Diagram) etc (As applicable). (c) 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>	
8	<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 to BHEL well in adavance before proceding including the BOI being procured for assy / skid like motors etc</p>	
9	<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 + Mechnaical + 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>	
10	<p>Packing / Seaworthy Packing shall be as per BHEL Packing schedule / approved drg / sketch. This shall be ensured to take care tarnsit / handling / transhipment in Road / Sea / Air. Photographs are to be submitted for BHEL review before despatching the material as per contract conditions.</p>	
10	<p>Packing shall be as per BHEL Packing schedule / approved drg / sketch. This shall be ensured to take care tarnsit / handling / transhipment in Road / Sea / Air. Photographs are to be submitted for BHEL review before despatching the material as per contract conditions.</p>	
11	<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 accreadted third party lab / Govt / Govt Lab for major testing such as NDT, Electrical & Mechanical testing.</p>	
12	<p>Important Note: No deviation on the above requirement 01 to 11 is acceptable w.r.t 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 evidances in the offer itself.</p>	
13	<p>## Necessorily 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>	

**CERTIFICATE FOR COMPLIANCE
TO
ALL PROVISIONS OF TECHNICAL BID DOCUMENTS
(Certificate of "NIL" Technical Deviation)
{To be submitted along with Offer for Technical BID Evaluation}**

To,

Material Planning/MM
BHARAT HEAVY ELECTRICALS LIMITED
BOILER AUXILIARIES PLANT
RANIPET, PIN-632 406
TAMILNADU-INDIA

Dear Sir,

1. With reference to our Bid submitted against the tender, we hereby confirm that we comply with all terms, conditions and specifications of the Technical Bidding Documents read in conjunction with Amendment(s) / Clarification(s) / Addenda/Errata (if any) issued by the BHEL Ranipet prior to opening of Techno-Commercial Bids and the same has been taken into consideration while making our Technical Bid and we declare that **we have not taken any deviation in this regard except mentioned in the box given below.**
Technical Deviation (if any)-Write "NIL" in case of No Technical Deviation.

2. We understand that in case the Products /Specifications/ additional conditions/ deviations/ variations/exception offered do not meet the Technical requirements, then our bid shall be rejected as Technically non-responsive.
3. We also confirm that in regards to technical requirement we have not written any additional conditions/ deviations/ variations/exception, implicit or explicit, anywhere else in the techno-commercial bid.
4. For technical deviation not acceptable to BHEL Ranipet, we also confirm that in case we refuse/not responding to withdraw additional conditions/ deviations/ variations/ exception regarding any technical requirement, within the stipulated time, our bid shall be rejected as Technically non-responsive.

Bidder's Seal & Signature

*(To be submitted In the company letter head by supplier)

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: _____

Note: For offer value INR 10 crores or more, shall be vetted/endorsed by statutory auditor or cost auditor, for the declared local content.

***(To be submitted In the company letter head by supplier)**

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

***(To be submitted In the company letter head by supplier)**

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 belongs 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_____



ACCEPTANCE FOR ELECTRONIC FUND TRANSFER / RTGS TRANSFER

01	NAME & ADDRESS OF THE SUPPLIER / VENDOR PHONE NO. WITH STD CODE												
		PAN NO. <input type="text"/>											
02	VENDOR CODE (as in WORK ORDER)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
03	Details of Bank Account:												
A)	NAME & ADDRESS OF THE BANK (WITH PIN CODE)												
B)	BANK TELEPHONE NUMBER (WITH STD CODE)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
C)	BANK BRANCH CODE:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
D)	MICR CODE	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
E)	VENDOR'S BANK A/C NO. ONLY (Factoring A/c No. not to be given)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
F)	TYPE OF ACCOUNT	CURRENT / OD /CASH CREDIT											
G)	VENDOR NAME AS PER BANK RECORDS												
H)	BANK BRANCH RTGS IFSC CODE	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
I)	BANK BRANCH NEFT IFSC CODE	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
J)	VENDOR'S EMAIL ID (give two ids)	<input type="text"/>											
		<input type="text"/>											
K)	NAME OF AUTHORISED SIGNATORY												

CERTIFICATE

I / We hereby agree to receive the payments due from BHARAT HEAVY ELECTRICALS LIMITED, RANIPET by the National Electronic Funds Transfer and/or RTGS Transfer mode by credit to my / our above mentioned Bank Account. I / We also agree that payments made to the above mentioned Account is a valid discharge of the liability of Bharat Heavy Electricals Limited, Ranipet. I / we also agree to bear the applicable Bank Charges for the above mode of transfer.

AUTHORISED SIGNATORY OF VENDOR WITH SEAL

Banker's Certification

We confirm that we are enabled for receiving RTGS and NEFT credits and we further confirm that the account number of _____ (name of account holder), the signature of the authorized signatory and the MICR and IFSC codes of our Branch mentioned above are correct.

PLACE:

DATE:

(Manager / Officer's
Signature Under Bank stamp)
Authorisation No. _____

Note: This EFT Form is to be submitted duly filled in manually in all fields and duly signed by Authorised Signatory and certified by Banker.