

Pre-Qualification Criteria (Technical)

Package Name: Rubber Gaskets

PR No : 1900143682

Project: 1 X 100MW Namrup Combined Cycle Replacement Power Project at Namrup, Assam.

Qualification Criteria of the Bidder:

The Bidders shall meet the Pre-Qualification Criteria (listed below).

- 1) The Bidder should have successfully completed supply of
 - a) Gasket sheet according to the design / manufacturing standard ASME B16.21 and according to material standard BS7531, in the size range of thickness 2 mm and above, of cumulative size not less than 12 sq. m through a single purchase order or multiple purchase orders not more than 5 years old as on date of tender enquiry.
- 2) Detailed BOQ of the Gaskets supplied, satisfying the criteria laid down above, shall be provided in the format enclosed as Annexure –“A” with details like Project & Customer, Description, Quantity & weight of the items supplied, PO details etc. as a minimum for assessing pre-qualification. PO copies, inspection reports and dispatch documents shall be enclosed for the references provided.




M. SURYA SATYA NAGESH
असम महाप्रबन्धक / पी ई एच एनडी अभियन्त्री
Addl. General Manager PE & SD Engg
बि. एच. ई. एस. एन. टी. डी. हदगाव 32 BHEL PESD HYD-32

ESP-001-2A Rev.00		PROJECT ENGINEERING & SYSTEMS DIVISION HYDERABAD	Doc. No: PY 54013	
			Rev. No.	00
			Page 1 of 7	

<p style="text-align: center;">COPYRIGHT AND CONFIDENTIAL</p> <p>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company.</p>	<p>TECHNICAL SPECIFICATION FOR MISCELLANEOUS GASKETS</p>	
	PROJECT:	1 X 100MW NAMRUP COMBINED CYCLE REPLACEMENT POWER PROJECT (PHASE -1) –NAMRUP , ASSAM
	CUSTOMER:	ASSAM POWER GENERATION CORPOTATION LTD, GUWAHATI, ASSAM
	CONSULTANT:	M/S DEVELOPMENT CONSULTANTS (P) LTD CONSULTING ENGINEERS

Revisions: Refer to record of revisions	Prepared by :	Checked by :	Approved by :	Date :
	Santosh	AKS	MSSN	30.04.22

ESP-001-2A Rev.00		PROJECT ENGINEERING & SYSTEMS DIVISION HYDERABAD	Doc. No: PY 54013	
			Rev. No.	00
			Page 2 of 7	

1.0 GENERAL:

- a) This standard specifies requirements related to Designation, Material, Sizes, Dimensions and other information required for ordering purposes of Non Metallic Gaskets for Flat Face Flanged connections.
- b) The Gaskets sheet shall conform to the requirements of latest version of ASME Standard B16.21 (Non Metallic Gaskets for Pipe Flanges) and comply with the following additional requirements.

2.0 SCOPE OF SUPPLY:

The Gasket shall be supplied for 18 square meters size with following details.

2.1 MATERIAL:

The material shall consist of fibres and inorganic fillers bonded with a suitable elastomer or blend of elastomers, and shall be manufactured in the form of sheets. The fibres shall be uniformly dispersed throughout the jointing.
Material shall be BS 7531 grade X or Equivalent.

2.2 DIMENSIONS, TOLERANCES AND OTHER REQUIREMENTS:

- a) Dimensions: The Gasket sheet shall be supplied as per the sq mts indicated in the purchase order considering the following points :
 - i) Width of the gasket shall be 1500 mm.
 - ii) Length of the gasket shall be based on the required sq mts
- b) Thickness: Thickness of Sheet shall be 2.0mm
- c) Tolerances: As per BS 7531
- d) Inspection and Testing : As per BS 7531

2.3 SIZE AND FACE:

Gasket Sheet Size (in mm) shall be as per BHEL Enquiry/Order.

2.4 DESIGNATION:

Non Metallic Gasket Sheet as per BS 7531 Grade X for Flat Face Flange connections.
Shall be designated as “ NAB Sheet BS 7531 Grade X”.

2.5 TEST CERTIFICATES:

Three copies of test certificates consisting of mechanical properties and chemical composition of the metals shall be furnished

3.0 DOCUMENTS TO BE SUBMITTED BY BIDDER AT THE TIME OF TECHNICAL OFFER

- 3.1 Un priced, Price-bid format,
- 3.2 Filled Annexure-I & Annexure-II.

ESP-001-2A Rev.00		PROJECT ENGINEERING & SYSTEMS DIVISION HYDERABAD	Doc. No: PY 54013	
			Rev. No.	00
			Page 3 of 7	

4.0 DOCUMENTS TO BE SUBMITTED BY BIDDER AFTER AWARD OF PO

4.1 Data sheet of each item,
4.2 GA drawing of each item.
4.3 Billing break up of each item

5.0 INSPECTION & TESTING:

Bidder to furnish Quality Plan to BHEL/Customer/Consultant for approval after award of contract. Quality plan will be reviewed during detailed Engineering stage with respect to Inspection, standard Engineering practices & Specification Requirements and various tests and stages of inspection. Bidder to abide by the same. QAP guidelines and format is attached.

Inspection agency:

BHEL/Third Party appointed by BHEL/Customer/Consultant. The various review/ witness/ observation stages by Individual agencies (or) Group of Agencies as above will be in line with approved quality plan.

ESP-001-2A Rev.00		PROJECT ENGINEERING & SYSTEMS DIVISION HYDERABAD	Doc. No: PY 54013	
			Rev. No.	00
			Page 4 of 7	

Variant Table:

	Item Type	Material Code	Remarks
	RUBBER GASKETS	PY9754014000	

ESP-001-2A Rev.00		PROJECT ENGINEERING & SYSTEMS DIVISION HYDERABAD		Doc. No: PY 54013	
				Rev. No.	00
				Page 5 of 7	

ANNEXURE – I

Bidder to fill and furnish the following information in the indicated format:

KEY INFORMATION

1. Name of the Bidding Company :
2. Registered in (mention the name of the Country) :
3. Name, designation, telex & telephone number and postal address of responsible officer of Bidder to whom all reference shall be made for expeditious coordination. :
4. Name, designation, telex & telephone number and postal address of responsible officer of Indian Agent. :
5. Bidder's proposal number :
6. Bidder's proposal date :
7. Validity of offer, counted from the date of opening of bid :
8. Guaranteed completion period, counted from date of issuance of LOI/TOI :
9. Confirm that Scope of supply and services are exactly as per specification requirement. : Yes/No
10. Confirm technical compliance with specification : Yes/No
11. Confirm that List of Recommended Spares has been furnished as per Annexure-II : Yes/No
12. Confirm that Special Tools & Tackles are as per Annexure-III : Yes/No
13. Confirm that deviations ,if applicable, have been furnished as per Annexure-IV : Yes/No

Signature of Bidder's
Authorized representative with date.....
Date

ESP-001-2A Rev.00		PROJECT ENGINEERING & SYSTEMS DIVISION HYDERABAD		Doc. No: PY 54013	
				Rev. No.	00
				Page 6 of 7	

ANNEXURE – II**DEVIATION FROM SPECIFICATION**

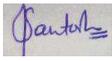
If the proposal submitted has got any deviation from the technical stipulations in the bidding document, the Bidder shall tabulate below the full particulars of such deviations and shall sign below. Additional sheets may be enclosed, if necessary. Deviation is to be furnished with mention of specific clause numbers. Technical and commercial deviations to scope of supply and services, shall be indicated separately.

Sl.No.	CLAUSE NO.	DESCRIPTION AS PER SPECIFICATION	DEVIATION BY BIDDER

We confirm that all the deviations/exceptions to the Job specification and enclosures including reference documents attached are listed in this format only. No other deviations or exceptions even if mentioned elsewhere shall be considered for any technical/ commercial evaluation or for ordering.

Signature of Bidder's
Authorized representative with date.....
Date.....

ESP-001-2A Rev.00		PROJECT ENGINEERING & SYSTEMS DIVISION HYDERABAD		Doc. No: PY 54013	
				Rev. No.	00
				Page 7 of 7	

RECORD OF REVISIONS					
Rev. No.	Date	Revision Details	Prepared By	Checked By	Approved By
00	30.04.22	First Issue	 DSK	 AKS	 MSSN

SL NO		COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	*	AGENCY			REMARKS
										D	P	W	V	
1.0		RAW MATERIALS & BOUGHT OUT ITEMS												
		Raw Material	Material Identification	Major	TC Review	100%	Approved BHEL Spec./Drawing/datasheet	Approved BHEL Spec./Drawing/datasheet	MTC	√	2	1	1	
2.0		FINAL INSPECTION & TESTING												
			Visual ,Dimension, Marking	Major	Visual	100%			IR	√	2	1	1	10% shall be witnessed by "1"
			Chemical & Mechanical properties	Major	TC Review	One per lot/batch			MTC	√	2	1	1	
			Compressibility, Recovery	Major	Testing	Random			TC	√	2	1	-	
			Residual Stress, Gas permeability & Resistance to fluid test	Major	Testing	Random			TC	√	2	2	1	Applicable for NAB gasket
			BOM check	Major	Visual	100%			IR	√	2	1	-	
4.0		PRESERVATION & PACKING												
		Gasket	Packing, Marking	Major	Visual	100%	Approved BHEL Spec./Drawing/datasheet	Approved BHEL Spec./Drawing/datasheet	IR	√	2	1	-	

<p>LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.</p>	<p>PREPARED BY</p>  <p>BHEL QA SIGNATURE & STAMP</p>	<p>APPROVED BY</p>  <p>BHEL QA SIGNATURE & STAMP</p>	<p>APPROVED BY</p> <p>CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE)</p>
--	---	---	--

 PROJECT ENGINEERING & SYSTEM DIVISION		STANDARD MANUFACTURING QUALITY PLAN						QP. NO.: PESD/QA/ GASKET/01/18-19					
		PRODUCT: GASKET						BHEL SPEC: AS PER P.O				REV NO: 00	DATE: 22-02-2019
												PAGE 2 OF 2	
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	*	AGENCY			REMARKS
									D	P	W	V	

Notes:-

1. This MQP should be read along with specification, approved drawings & approved datasheet. (Latest revisions to be considered as per PO).
2. Drawing/datasheet shall prevail over quality plan for contradiction if any.
3. Any project/customer specific requirements, which shall be notified, have to be fulfilled by the vendor at the time of execution of order.
4. ~~Seaworthy packing shall be witnessed BHEL/BHEL nominated inspection agency for overseas project.~~
5. End Customer/Consultant inspection if any shall be intimated during quality plan approval.
6. **NACE requirement:** For items coming under **NACE category**, all tests, reports, MTC and certificates shall be submitted as per **NACE MR0103** requirements.

Abbreviations:-

MTC - Material Test certificate	WPS - Welding Procedure Specification
IBR - Indian Boiler Regulations	PQR - Procedure Qualification Record
DFT - Dry Film Thickness	WPQ - Welder Performance Qualification
TC - Test Certificate	NDE - Non Destructive Examination
IS - Indian Standards	UTS - Ultimate Tensile Strength
Appd.	YS - Yield Strength
Dwg. - Approved Drawing	EL - Elongation
PMI - Positive Material Identification	OD - Outer Diameter
G.I - Galvanized Iron	ID - Internal Diameter

LEGEND: P: PERFORM, W: WITNESS, V: TEST CERTIFICATE REVIEW. INDICATE 1 FOR BHEL / BHEL NOMINATED INSPECTION AGENCY & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D'; TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	PREPARED  BHEL QA SIGNATURE & STAMP	APPROVED BY  BHEL QA SIGNATURE & STAMP	APPROVED BY CUSTOMER'S SIGNATURE & STAMP (IF APPLICABLE)
---	--	---	--