

Note No. #1

Attachment:PR DOCS – MAIN –1900145710-FRAME WORK – PIPECLAMP.pdf

## DISTRIBUTION OF FRAMEWORK ITEMS ACROSS PROJECTS

Annexure-A to Price Bid Format

ITEM: PIPE CLAMP

PR NO 1900145710

SL NO	Material No	Material Desc	UOM	KOTHAGUDEM	BHADRADRI	NORTH KARANPURA	BARH-1	BARH-2	MAUDA	BRBL NABINAGAR	NPGCL NABINAGAR	RAMAGUNDAM	KORBA	NSPCL BILLAI	TUTTICORIN	UDANGUDI	SAGARDIGHI	ENNORE	BHUSAWAL	YADADRI	PATRATU	PANKI	CONTINGE NCY
1.00	PY9752281010	MS PIPE CLAMP 25NB	EA													178	200			500	200	300	
2.00	PY9752281028	MS PIPE CLAMP 50NB	EA	482	482	340	482	482	482	340	340	340	340	482	482	736	2254			1500	2200	400	
3.00	PY9752281036	MS PIPE CLAMP 80NB	EA													182							
4.00	PY9752281044	MS PIPE CLAMP 100NB	EA	96	96	96	96	96	96	96	96	96	96	96	96	130	805				200	400	

1. The quantities indicated are total quantity with additional 50 % qty variation considered
2. The above list of Quantity , project/customer is tentative only. Final details of quantity, Project/ Customer shall be informed at the time of PO
3. The Project/ Customer are subject to change based on buisness scenario of BHEL.

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## FRAMEWORK AGREEMENT FOR FGD FPS PROJECTS

## Un-Priced Price Bid Format

Item: PIPE CLAMPS

PR No: 1900145710

Sl No	PR No	Material Code	Material Description	UOM	PR Qty (No.s)	Technical Specification	Price Weightage Factor	Bidder Confirmation (Quoted)
1	1900145710	PY9752281010	MS PIPE CLAMP 25NB	EA	900	PY52281	0.04866	
2	1900145710	PY9752281028	MS PIPE CLAMP 50NB	EA	8500	PY52281	0.58779	
3	1900145710	PY9752281036	MS PIPE CLAMP 80NB	EA	130	PY52281	0.02112	
4	1900145710	PY9752281044	MS PIPE CLAMP 100NB	EA	1900	PY52281	0.34244	
Total							1.00000	

## NOTES:

- 1) Vendor to Quote Lumpsum Price for the Total Package.
- 2) Line Item Rates of the individual items shall be derived by multiplying the "Price Weightage Factor" with the Lumpsum Price quoted.
- 3) Unit Rates of the Individual items thus arrived, shall be binding on the bidder, for the total period of Framework Agreement.
- 4) Observations / Objections, if any, of the Bidder, to the "Price Weightage Factor" shall be brought to the notice of BHEL, during Pre-Bid Stage.
- 5) No Observations / Objections shall be entertained after the Techno-Commercial Bid is opened.
- 6) Bidder to indicate "Quoted" in the column "Bidder's Confirmation" as a confirmation of their bid to the respective item.
- 7) The Bid Evaluation is on Overall L1 Basis. Each and Every item of the Package shall be quoted by the bidder.
- 8) Partial offers will not be considered for evaluation and the same are liable for rejection.
- 9) The details of the Projects for which Framework Agreement is proposed are given elsewhere in the NIT. The distribution of the line items across the projects is attached as **Annexure-A**.
- 10) The permissible ordering limits specified in NIT are strictly applicable on the Total Framework Value. The same are not applicable at the Individual Project level.
- 11) The Total Lump price quoted shall be INCLUSIVE of Freight, Packing & Forwarding and Testing Charges.
- 12) The Total Lump price quoted shall be EXCLUSIVE of GST, Third party inspection (TPI) & Insurance Charges.

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Attachment: PR DOCS – MAIN – 1900145710-FRAME WORK – PIPECLAMP.pdf  
BULK PROCUREMENT OF GENERIC PIPING ITEMS  
Pre-Qualification Criteria (Technical)

Package Name : PIPE CLAMPS  
PR No : 1900145710

Manufacturers of **PIPE CLAMPS**, qualified as per the Pre-qualification criteria laid down below, are allowed to bid. Documentary evidence shall be provided by such bidders to establish their claim. **However, offer consideration is subjected to approval from end Customer.**

**The bid evaluation shall be on Overall L1 basis. The Bidder shall meet the Pre-Qualification Criteria (listed below.**

*Non-compliance to any of the criteria listed below will lead to disqualification of bidder for the subject item of the tender.*

**Qualification Criteria of the Bidder:**

1. The bidder should be an established manufacturer of **Pipe clamps** and should have successfully completed Manufacture, Supply of **Pipe clamps**.
2. The Bidder should have successfully completed supply of **Pipe clamps** for similar specification with a total minimum quantity of **2000 No.s** through a single Purchase Order or multiple Purchase Orders in the last 5 years ending on original due date of this tender, with at least one order executed after 01.01.2019.
3. Detailed BOQ of the items supplied, satisfying the criteria laid down above, shall be provided in the format enclosed as Annexure-1, with details like Project & Customer, Description & Quantity of 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.**
4. The bidder should not have been under suspension for business or blacklisted by any of the BHEL units.

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**Annexure-1 PQC Criteria****Supply References for the Last 5 Years (dispatch date) from the Original due date of this tender**

Enquiry Item No &amp; Description: (To be filled by Bidder)

Sl No	Project Name along with name of Customer	Description Item(s) supplied	Purchase Order No & Date (Copy to be enclosed)	Delivery Date as per Order	Value of Order	Inspection Reports / Dispatch Documents (Copy to be enclosed)	Remarks

Note No. #1	Form No:	 PE&SD	Attachment: PE DOCS - MAIN - 1900145710 - FRAME WORK - PIPECLAMP.pdf BHARAT HEAVY ELECTRICALS LIMITED PROJECT ENGINEERING & SYSTEMS DIVISION	PIPECLAMP.pdf PY 52 281	
			TECHNICAL SPECIFICATION		Rev. No. 00
			MS PIPE CLAMPS FOR FPS PIPING		Page 1 of 2

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### MS PIPE CLAMPS FOR FPS PIPING

#### 1.0 INTRODUCTION & SCOPE

- 1.1 The intent of this document is to specify minimum specification requirements for procurement MS Piping Clamps as Per fig-1.
- 1.2 The purpose of these clamps is to support the pipe using threaded Rods from roof.
- 1.3 All the codes/standards mentioned in this specification shall be of latest issue.

#### 2.0 DESIGN & MATERIAL

- 2.1 MS clamps shall be as per the dimensions in FIG -1 and shall be suitable for the pipe sizes as indicated in the Table-1.
- 2.2 MS clamps shall be HOT- DIP Galvanized.
- 2.3 MS clamp material shall be as per IS 2062 Grade E250 Sub-quality A.
- 2.4 The ends of clamp Strip shall be overlapped and shall have a hole of DIA 10 mm (unless otherwise specified) as indicated in the fig-A , for inserting the threaded rod. There shall be overlap of the both ends of clamp, and hole shall be passing through the overlap portions of the clamp as indicated in FIG-1.
- 2.5 MS strip used for the clamp shall be minimum 2 mm thick for all sizes.
- 2.6 Nuts & rods indicated in fig-1 are not in supply scope.

#### 3.0 INSPECTION

Scope of inspection shall be as called for in the data sheets enclosed / specified in the purchase order / approved quality plan. Inspection agency shall be BHEL / BHEL Third Party Inspection agency.

#### 4.0 TEST CERTIFICATES:

Three copies of the test certificates covering results of the Chemical analysis and the Mechanical tests as per the material standard, shall be furnished.

#### 5.0 PACKING AND MARKING

- 5.1 All the items shall be packed suitably in closed wooden cases / hard cardboard boxes, enclosed in a moisture resistant wrapping in order to avoid damage, ingress of moisture & corrosion during transit and storage. Suitable supports shall be provided inside the cases in order to avoid internal movement. Each packing case must contain 2 copies of the shipping list giving details of all the contents of the case.
- 5.2 The following marking shall be done on each packing case minimum on two sides and also at the top:
  - Complete address of the consignee and destination as per BHEL Purchase Order.
  - BHEL Purchase Order Number (c) Number of pieces in each packing case
  - Net Weight
  - Gross Weight
  - Packing case number and total number of packing
  - Arrow indicating top of the packing case.

Form No:	LAYOUTS & PIPING ENGINEERING	PREPARED	CHECKED	APPROVED	DATE
	PROJECT ENGINEERING & SYSTEMS DIVISION	 PARAMESH	 V UDAY	 SRIKANTH G	02.11.19

Note No. #1

Form No:	 <b>BHEL</b> PE&SD	<b>Attachment: PE DOCS - MAIN - 1900145710 - FRAME WORK - PIPE CLAMP.pdf</b> <b>BHARAT HEAVY ELECTRICALS LIMITED</b> <b>PROJECT ENGINEERING &amp; SYSTEMS DIVISION</b>	<b>PIPE CLAMP</b> <b>PY 52 281</b>	
		<b>TECHNICAL SPECIFICATION</b>		Rev. No. 00
		<b>MS PIPE CLAMPS FOR FPS PIPING</b>		Page 2 of 2

TABLE-1

DIMENSIONS DETAILS OF THE CLAMP			
PIPE SIZE	DIMENSION-A (IN MM)	DIMENSION-B (IN MM)	WIDTH OF CLAMP (IN MM)
25 NB	35	70	25
50 NB	62	120	25
80 NB	90	180	50
100 NB	116	240	50
150 NB	170	340	50

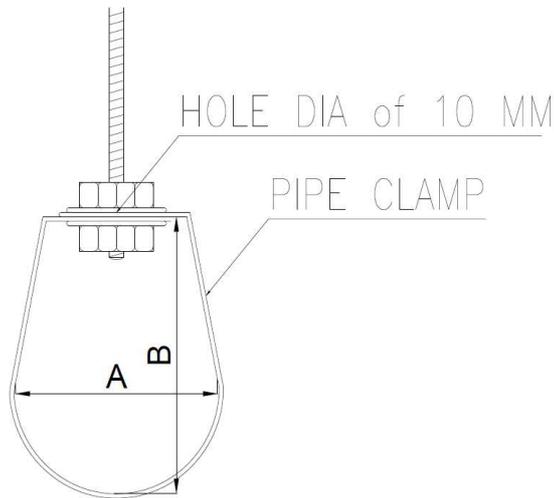


FIG-1

RECORD OF REVISIONS

Rev. No.	Date	Revision Details	Revised	Approved
00	02.11.2019	First Issue	--	--

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SI No	Components	Characteristics	Class	Type Of Check	Quantum of Check	Reference Document	ACCEPTANCE NORMS	FORMAT OF RECORD	* AGENCY				REMARKS	
									D	P	W	V		
VENDOR'S NAME & ADDRESS:		<b>MANUFACTURING QUALITY PLAN -1900145710-FRAME WORK- PIPECLAMP.pdf</b> CUSTOMER: BHEL, HYDERABAD - 32. BHEL P.O No.: PROJECT: <b>VARIOUS</b> P.O DATE : PRODUCT: <b>Swivel Hanger/ MS Pipe Clamp</b> BHEL SPEC :												
								Rev No:00		DATE:		PAGE 1 OF 1		
<b>1.0 RAW MATERIALS &amp; BOUGHT OUT ITEMS</b>														
1.1	Mild Steel Sheet	Chemical Composition	Major	Chemical	Lot	IS 1079	IS 1079	Raw Material Test Certificate	√	2	2	1		
		Tensile Test	Major	Mechanical					√	2	2	1		
		Bend Test	Major	Mechanical					√	2	2	1		
		Visual Check for Surface finish	Major	Visual	10%				Internal Test Reports	√	2	2	1	
		<b>Dimensions</b>												
			Sheet Thickness	Major	Measure	10%	IS 1852	IS 1852	Internal Test Reports	√	2	2	1	
<b>2.0 INPROCESS INSPECTION</b>														
2.1	Fabrication	Shearing/Cutting	Major	Measure	5%	Approved Drawing	Approved Drawing	Internal Test Reports	√	2	2	1		
		Forming / Hole Punching	Major	Measure	5%	Approved Drawing	Approved Drawing	Internal Test Reports	√	2	2	1		
2.2	Surface Coating	Hot Dip Galvanising	Major	Measure	100%	IS 4759 / IS 2629	IS 4759 / IS 2629	Internal Test Reports	√	2	2	1		
<b>3.0 FINAL INSPECTION &amp; TESTING</b>														
3.1	Swivel Hanger/ MS Pipe Clamp	Dimension	Major	Measure	1%	Approved Drawing	Approved Drawing	Internal Test Reports	√	2	1	1		
		Coating Thickness	Major	Measure	1%	IS 4759 / IS 2629	IS 4759 / IS 2629	Internal Test Reports	√	2	2	1		
		Mass of Zinc Coating	Major	Measure	Sample				√	2	2	1		
		Preece Test	Major	Test	Sample				√	2	2	1		
		Adhesion Test	Major	Test	Sample				√	2	2	1		
		Visual Check for Surface finish	Major	Visual	10%				√	2	2	1		
<b>4.0 PRESERVATION &amp; PACKING</b>														
4.1	Packing	Painting & Packing	Major		Random	BHEL Specs./ Approved Drawing	BHEL Specs./ Approved Drawing			2	1	1		

LEGEND: P: PERFORM, W: WITNESS, V: VERIFICATION. INDICATE 1 FOR BHEL/BHEL NOMINATED TPIA & 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 BY	APPROVED BY	BHEL QA SIGNATURE & STAMP	APPROVED BY
	VENDOR'S SIGNATURE & STAMP	BHEL ENGG SIGNATURE & STAMP		CUSTOMER'S SIGNATURE & STAMP