

Enquiry No 4011900002 dt 29.04.2019
Procurement of Welded & IS3589 Pipes for Panki 1x660MW

Date- 06.05.2019

Dear Sir / Madam,

Sub: Procurement of Welded & IS3589 Pipes for Panki 1x660MW as per BHEL Enquiry - 4011900002 dt 29.04.2019.

With regard to the subject tender for the “**Welded & IS3589 Pipes for Panki 1x660MW**” as per BHEL Enquiry No 4011900002 dt 29.04.2019, Corrigendum #1 is being issued for the following-

- Applicable **Painting Scheme 7363 QPC 12 revised** to Revision 01 (as enclosed).

As per the revision, external coating requirement of Overground Piping mentioned in **Cl. 3.B of Terms and conditions** shall be read as following:

OVERGROUND PIPE (OG)

External Coating

Blast cleaning to SSPC SP-10 / SA 2½

Epoxy Polyamide resin based Zinc Phosphate Primer – 1 x 35 Microns

Epoxy resin with MIO/TIO2 – 1 x 70 Microns

Total DFT 105 microns

- Sl.Nos mentioned in **List of items table** of Terms and conditions shall be read as below:

SI. NO	MATERIAL CODE	DESCRIPTION	UG/ OG	D1	QUAN TITY (Meter)
10	159387460001	P.F. PIPE OD-3840X14 -IS2062 E250 GRBR(R&W)	UG	3812	300
20	159385370000	PIPE 813 X 8 EFW-LS IS3589-410MPA	UG	797	900
30	159385300000	PIPE 610X8 EFW-LS IS3589-410MPA	UG	594	1300
40	159385300000	PIPE 610X8 EFW-LS IS3589-410MPA	OG	594	1400

Prospective bidders are requested to take note and submit / revise their quote before the tender due date **15.05.19**.

For BHEL Piping Centre,


06/05/19
Poongkodi.V

Sr.Engineer / Purchase
BHEL Piping Centre

 BHARAT HEAVY ELECTRICALS LIMITED PIPING CENTRE, CHENNAI-17 QUALITY ASSURANCE & CONTROL DEPT.			PAINTING SCHEME FOR LP PIPING (CW/ACW / ECW / Plant water, Air Piping, etc...,) PROJECT NAME :- PANKI TPS EXTN - (1X 660 MW) - EPC PACKAGE BHEL CUSTOMER Nos : 7363,7364 & 7365							QPNo: 7363:QPC:12 REV.NO: 01 Dt : 25.04.19		
Sl. NO	PGMA / Description	Surface Preparation & Surface Profile	Primer coat		Intermediate coat			Finish coat			REMARKS	
			Primer	No of coats	Paint	No of coats	Shade	Paint	No of coats	Shade		Total DFT Microns (Min.)
1	2	3	4	5	6	7	8	9	10	11	12	13
1	(a) Internal Surface - CW/ACW Pipe (for pipe - dia - 1000 mm and above)	Blast Cleaning SSPC SP-10 SA 2½ (Refer Note 1)	Epoxy based Zinc rich Primer (Refer Note 2)	1 (50 Microns Min. per coat)	-----	-----	-----	Coal tar epoxy (Refer Note 2)	2 (75 Microns Min. per coat)	-----	200 Microns (Refer Note 3)	
	(b) Holiday test (Refer Note 3)	Holiday testing by low voltage (75 Volts Min.) wet sponge Holiday detector or by High voltage (Voltage per micron of DFT is as recommended by Paint Manufacturer subjected to minimum of 5V / Micron). Holiday test Equipment to be calibrated before testing.										
2	External Surface of ACW --Buried Piping (Temporary Protection for transportation from works to site). **Further protection to be done by BHEL Erection Group as per Contract requirement.	SSPC-SP3 / Power Tool Cleaning	Red Oxide Zinc Phosphate (Alkyd base to IS 12744)	1 (30 Microns per coat)	-----	-----	-----	-----	-----	-----	30 Microns	
3	External Surface (over ground piping) of CW/ACW, ECW, Plant water. (For all diameters)	Blast cleaning to SSPC SP-10 / SA 2½	Epoxy Polyamide resin based Zinc Phosphate Primer	1 (35 microns per coat)	Epoxy resin with MIO/TIO2	1 (70micron s per coat.)	-----	Epoxy Polyamide finish Paint	1 \$ (40 microns per coat)	Smoke Grey Shade No 692 of IS 5 (Refer Note-4)	105 at shop + 40 at site	\$: 1 coat of DFT-40 microns finish coat at site
4	Galvanised and Stainless steel Piping	No painting										
Notes: 1. Blast cleaning to near white metal to obtain roughness as per epoxy paint data sheet. 2. Application of Epoxy based Zinc rich Primer, Coal Tar Epoxy shall be done as per manufacturer's data sheet / recommendation, meeting the thickness requirements as per this document. 3. Witness by BHEL / BHEL nominated inspection agency.												
 PREPARED BY : V KARTHIKEYAN, Dy.Engr / QA			 APPROVED BY : VIVEKANANDA YELLU Dy.Mgr / QA			For NTPC use NTPC Doc.ref: 9962-001-PC-102-PVM-H-002			Page 1/1			

CHECKLIST FOR DOCUMENT SUBMISSION		
Panki 1x660MW		
S.No	Description of document - To be duly signed and filled wherever necessary	Document enclosed(Yes/No)
PART 1		
1	Techno Commercial Terms and Conditions (T&C)	
2	Pre-Qualification Requirement (PQR)	
	List of supporting documents for PQR	
	a) Company catalog/ Proof Certificate	
	b) Authorisation letter by manufacturer specific to this tender	
	c) List of manufacturing , testing and handling facilities	
	d) List of qualified personnel	
	e) Experience - PO copy / Supply completion certificate	
	g) Audited balance sheet for past three years	
	h) Copy of BIS certificate / Equivalent	
3	Tech. delivery condition for pipes TDG: 07: 06 Dt. 04.05.2012.	
4	Tech. delivery condition for pipes TDG: 121 Dt. 27.09.2018	
5	Pipe shall be as per Drawing Nos. 3-80-468-35364-R00 & 3-80-477-35631-R00	
6	Spider Arrangement Drawing No 4-80-999-93078 Rev. 01.	
7	Pipe Edge Preparation as per Drawing No.3-80-300-19825 Rev 04 (Style D)	
8	Copy of ISO 9001 certificate	
9	Typical Quality plan already available (preferably customer approved)	
10	WPS - PQR	
11	Process Flow chart	
12	Painting scheme QP NO: 7363: QPC: 12 Rev. 01 dt. 25.04.2019	
13	UnPriced bid Format	
14	Cancellation / Termination of contract, Default / Breach of contract and Risk Purchase	
15	Integrity Pact	
16	Declaration for Make in India	
17	Checklist (To be filled and submitted with Technical bid without fail).	

VENDOR'S SIGNATURE