

PUR 002/01

BHARAT HEAVY ELECTRICALS LIMITED

80, Gopathy Narayanasamy Road, T.Nagar, Chennai-600 017.

(A Government of India Undertaking) PIPING CENTRE, MATERIALS MANAGEMENT

2815882 Phone: 281588

28158370

Fax

: 044-28157368

28158869

	ENQUIRY REFERENCE	DATE
INDIGENOUS ENQUIRY	4010700039	23 10 67
	DUE DATE FOR QUOTATION :	07. 11. 07
	THIS IS ONLY A REQUOTATION AND NO	

Supplies are requested to go through Terms & Conditions before submission of offers

SI.	Material Code	Unit	Qty.	DELIVERY SCHEDULE				
No.	•	Description & Specification		,	Qty.	Date	Remarks	
). 								
		As PER ANNEXURE				ř .		

Encl. to Enquiry:

1. IMPORTANT INFORMATION TO BIDDERS 4. EDGE PREPARATION DRG. NO. 4-80-468-65388.

2. TDG !TDG : 07:03

5. SPIDER ARRANGMENT DRAWINGS

3. QP NO 6914 : QPC : 04 REV 02 &

Dear Sirs, O2 A DT. 27.69.07

Please submit your lowest quotation in triplicate, subject to our terms and conditions overleaf, for the above materials, so as to reach us on or before the due date by 2 P.M.

- 1. Quotations will be opened at 2.30 P.M. on the due date in camera/In the presence of the tenderers who may like to be present.
- 2. Price should be nett FOR destination Inclusive of risk in transit and remain valid for 120 days from the due date.
- 3. If any Sales Tax and Excise Duty are payable as extra to the quoted price the percentage of the same should be specifically stated in the quotation falling which the purchaser will not be liable for payment of Sales Tax / Excise Duty. Our T.N.G.S.T. No.3560005 / dt. 1.4.95, C.S.T.No.239383 dt.11.6.91.
- 4. If the enquired items are coming under D.G.S & D rate contract, please indicate the rate contract prices duly sending a copy of the rate-contract along with your offer.
- 5. No revision of prices will be entertained after tenders are opened.
- 6. Manufacturer's name, brand name, trade mark or patent No. if any should be specified. Illustrative leaflets giving particulars are required along with quotation wherever necessary.

7. Products with I.S.I. certification marks will be preferred.

8. The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject in part or full without assigning any reason whatsoever.

9. Late tenders are liable to be rejected.

10. Any deviations to the enquired Technical and Commercial conditions shall be clearly indicated in the covering letter of the quotation.

Note: a, Point no 3 ob terms and conditions mentioned overled if suspensed by no 8 of commercial in important

Yours faithfully (for BHARAT HEAVY ELECTRICALS LIMITED

information to bidders.

Sr. Manager "Purchase

, b, Point no 4 of terms of Condition is not cupplicable.

TERMS AND CONDITIONS

QUOTATION: Each tender should be sent in double cover, inner cover should be sealed with tenderer's distinctive seal and super scribed with correct tender No, item of supply and due date of opening. The outer cover should only bear the address of this office and should not have any indication that a tender is within. Two or more quotations should not be sent in one cover but the quotation against each tender should be sent separately to avoid confusion.

Tenders should be free from CORRECTIONS AND ERASURES: Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted

in words and figures, amount quoted in words shall prevail.

2. PAINTING, PACKING AND MARKING: The supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit, as per enquiry specification wherever applicable. The following marking should be made in each packages.

THE STATE OF LAND FOR

The above mark should be stenciled on the package itself. Should the packages be too small suitable cards giving these details may be tagged under seal of the seller. Special precaution shall be taken to prevent rusting and corrosion of metal parts during transit.

3. TERMS OF PAYMENT: Payment will be made within 30 days of satisfactory receipt of materials at BHE stores / site as required by the purchaser. The successful tenderer must send the operation and maintenance manuals, test certificate, drawing, etc., for the materials ordered. These should be sent immediately after despatch of the materials and statement to that effect should be made in the invoice. Failure to comply with this provision will result in delay in payment of the bills. Goods despatched either by V.P.P. or by the document presented through bank will not be accepted unless agreed to by the purchaser.

- •4. SECURITY DEPOSIT: In the case of orders above Rs.5,000/- with deliveries of 3 months or above, the seller shall, within 14 days after written notice of acceptance of his tender quotation has been posted to him deposit with the purchaser (in cash or equivalent in Govt. Securities or Bankers Guarantee bond) a sum equal to 5% of total value of the stores detailed in the order as security for the due fulfillment of the contract. No claim shall lie with the purchaser in respect of interest on cash deposits on Govt. Securities or depreciation there of, Purchaser shall be entitled to deduct from the said deposit any loss or damages which they may be put to by reason of any act or default to the seller and recoverable by them from the seller and to call upon the seller to maintain the deposit as its original limit by making further deposits in the event of the Seller failing to make and to maintain the Security of deposit in the manner aforesaid the Purchaser shall be entitled to cancel the order.
- LIQUIDATED DAMAGES: It is clearly understood among the parties to the contract that time is the essence of the contract. Therefore the delivery of the goods specified, in the purchase order should be made within the time limit prescribed. Where the seller supplies or despatches the goods beyond the delivery period specified, the Purchaser will have no obligation to accept the goods if accepted liquidated damages, at the rai of 1/2% of the value of goods delayed for each week of delay or part thereof subject to a maximum of 15% of the order value will be levied without prejudice to any other relief or compensation due to the purchaser under any other condition of this contract.
- 6. RISK PURCHASE: Alternatively the purchaser at this option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefore. The supplier shall be liable for any loss which the purchaser may sustain by reason of such risk purchases in addition to penalty at the rate mentioned in clause 6 above.
- PREFERENTIAL DELIVERY: It should be noted if a contract is placed on a higher tenderer as a result of this Invitation to tender in preference to the lowest acceptable offer in consideration of the earlier delivery, the seller will be liable to pay to the purchaser the difference between the contract rate and that of the lowest acceptable tender on the basis of final price F.O.R. Destination, including all elements of freights, sales tax, duties and other incidentals in case of failure to complete supplies in terms of such contract within the date of delivery specified in the tender and incorporated in the contract.
- GENERAL: The purchaser reserves the right to split up the tender and place order for individual terms with different tenderers and also increase the quantity.

Any other conditions which might have been quoted by the Seller and are in contravention to the terms prescribed in the order and which have not been specifically accepted in by the Purchaser will not be applicable to this contract.

en. Ç ••

ENOUIRY NO: 4010700039 **IMPORTANT INFORMATION TO BIDDERS.**

This Tender is a **TWO PART BID**. Part I - Technical cum Commercial. Part II - Price.

Type and quantum of work is detailed in "SCOPE OF WORK"

- The quoted price shall be "FIRM" till the complete execution of the scope. Last date for submission of offer **07.11.07 Time 13.30** Hours.
- Technical cum Commercial Bid Opening Date 07.11.07 Time 14.30 Hours.
- Price Bid of only the Technically acceptable offers shall be opened at a later date.
- The above bid shall be sent in a sealed cover duly indicating

Enquiry No. & date, Tender Opening date and "CW PIPING -IS 3589 - BUDGE BUDGE PROJECT"

> To **SDGM / PROCUREMENT BHEL - Piping Centre** Old No 93, (New No:80) G N Chetty Road T Nagar / Chennai 600 017 . PHONE: 28158804 / 28158820

(Technical cum Commercial offer and Priced offer shall be put in separate envelopes with the above mentioned details on it.)

SCOPE OF WORK:

BHEL requires the below mentioned quantities of various sizes of Welded Pipes - Pipes either Spiral or Longitudinal Seam Weld conforming to IS 3589 FE 410 Pipes with Internal and External Painting and as per TDC-TDG:07:05 and to be delivered to Site as per Technical specification detailed out in Technical and Commercial Part of this Bid. The raw material plate is to be arranged by suppliers themselves.

LIST OF ITEMS.

F	D' - C'	1	10 10		T ==		T
Enq. Sl.no	Pipe Size	Sp. Length mm	Specification	Hydro Test (Bars)	Qty. Mtr	Destination	Delivery
01	Dia 1626 x14 OG	10000	IS 3589	26	50.0	BUDGE BUDGE SITE	28.02.08
02 ~	Dia 1626 x14 UG	10000	IS 3589	26	10.0	BUDGE BUDGE SITE	28.02.08
03	Dia 1829 x14 OG	10000	IS 3589	21	30.0	BUDGE BUDGE SITE	28.02.08
04	Dia 1829 x14 UG	10000	IS 3589	21	200.0	BUDGE BUDGE SITE	28.02.08
05	Dia 2435 x18 UG	10000	IS 3589	21	170.0	BUDGE BUDGE SITE	28.02.08

Total Weight = 360 MT

DATE: 23.10.07

PART - I : TECHNICAL CUM COMMERCIAL. **Technical:**

- The bidder shall supply the Welded Pipes, as per IS 3589 Specification and shall also comply with the following BHEL documents.
 - a. Acceptance to BHEL TDC ref: TDG: 07:05.
 - b. Painting requirements for CW Piping Budge Budge Phase I (1 x 250 MW), as per QP No. 6914 : QPC: 04 Rev 02 Dt. 27.09.07 or 6914: QPC: 04 Rev 02-A Dt. 27.09.07
 - c. Edge Preparation shall be done on each Pipe as per BHEL Drawing No. 4-80-468-65388
 - d. Spiders shall be provided as per the enclosed drawing.

- 2. Bidders shall clearly indicate their point to point acceptance to the TDC and other requirements and in case, any deviations taken shall be clearly indicated. Also, Please ensure "Not to repeat deviations taken in earlier tenders which have not been accepted by BHEL". This will enable quicker processing of tender. Any deviations taken after placement of Purchase Order "shall not be considered". The bidder shall clearly mention the manufacturing process that will be adopted. Also the proposed WPS (Welding Procedure Specification) shall be enclosed.
- 3. The Bidder shall submit their Quality plan to BHEL for approval along with the offer indicating the verification, witness and hold points of PDIL and Customer Inspection with percentage of checks involved in the manufacturing process. The Procedure for the Holiday Detector Testing shall be submitted along with the offer.
- 4. The Bidder shall indicate the raw material specification of Plate/Coil to be used for Pipe Fabrication.
- 5. Vendors to depute suitable representative to discuss and finalise Technical and Commercial points and Quality Plan etc., to speed up the process before opening the price bid.
- 6. Inspection shall be done by BHEL/BHEL Authorised Agency and the first lot of pipes shall be inspected and cleared by customer in addition to BHEL.

Commercial:

- The prices quoted by the Bidder shall be on F.O.R. Ex-works basis with Freight extra for transportation
 of Finished pipes to Budge Budge site. Price quoted shall be "FIRM" till the execution of the complete
 scope with raw material plate in their scope.
- Payment for freight will be based on per meter. The Bidder shall clearly indicate whether Service Tax for Transportation is included or not in the Freight Rate quoted. Documentary evidence for proof of payment of Service Tax shall be submitted for payment.
- 3. The bidder shall confirm in this Part of bid that he has given all the breakups as requested in the price bid format as enclosed (Part II Price) . Two alternative Price offers shall be submitted in the Price Bid, as per the format enclosed. PO will be placed for any one of the alternates.

(The bidder shall also enclose in Part I $\,$ a copy of $\,$ un priced - Price part format to know whether the bidder have taken care of all the points).

- 4. The bidder shall clearly indicate the applicable Taxes / Duties / CESS. (See Format).
- 5. Delivery 28th February 2008.
- 6. LD @ 0.5% per week subject to a maximum of 15% for the undelivered portion shall be levied.
- 7. Bidder shall give a minimum validity of 60 days for the offer i.e 60 days from the date of opening of Price Bids.
- 8. Payment terms 100 % against Acknowledged Lorry way Bill from Site and within 60 days from the date of despatch and submission of clear documents, as listed below,
 - a. Invoice (Original).
 - b. Excise Gate Pass if applicable.
 - c. Acknowledged Lorry Way Bill / Delivery Challan.
 - d. Original Test certificate and Inspection reports.

Note: As a policy any request for LC will not be considered and is not acceptable to BHEL. Bids with Payment Terms through Letter of Credit will be rejected. The Bidders shall strictly adhere to the Payment Terms as indicated above.

In case of incomplete / inadequate information provided against the requirements of this tender, the offer shall be liable for rejection. 10. L1 bidder shall not automatically qualify for getting the order and BHEL has the right to negotiate price and delivery and if warranted BHEL shall also split the order on two or more parties. If split between 2 parties the ratio shall be 60:40. 60% on original L1 bidder and 40% to L2 bidder who has matched with L1 price.

PART - II - PRICE:

In this part of bid, the bidder shall provide the price strictly in the below mentioned format In this addition to the hard copy, the bidder has to submit in soft copy also in excel format. This format for which shall be sent and the same is to be submitted along with the offer (Refer Annexure - Price Format).

a. Base Price shall include Cost of Raw Material plus conversion cost per Mtr of bare pipe including Edge Preparation and providing Spider Arrangement and Testing as per TDC: TDG: 07:05.

b. Ordering shall be on FOR - Site basis .

c. Percentage of applicable Taxes, Duties and CESS shall be clearly indicated .

d. Service Tax on transportation if included shall be clearly indicated.

e. A soft copy of the price format with price details are also to be sent along with price bid. (Preferably in CD).

The Price quoted shall be "FIRM" till complete execution of the scope and bidder shall give validity of this price offer for a period of minimum 60 days from the date of opening of Price Bids.

LIST OF DOCUMENTS ENCLOSED:

1. TDC: TDG: 07:05.

2. QP No. 6914: QPC: 04 Rev 02 Dt. 27.09.07

3. QP No. 6914 : QPC : 04 Rev 02-A Dt. 27.09.07.

- 4. Edge Preparation Drawing No. 4-80-468-65388
- 5. Spider Arrangement drawings.

The above documents from part of this tender document and bidder shall ensure that they have received all these along with tender and confirm.

- Pre Qualified is the criteria for consideration for other than the BHEL Approved Vendors. After qualifying
 for registration, the new Vendors, may be considered for future inline with their system and policy. Such
 Vendors will not be considered in this Enquiry.
- The new Vendors may download Vendor registration forms from BHEL Web Site www.bhel.com and submit all relevant data for formal registration.

Sr. Purchase Officer Purchase

(j)

-4-PRICE:

In this part of bid, the bidder shall provide the price strictly in the below mentioned format.

Alternate - 1: As per Quality Plan No. 6914: OPC: 04 Rev 02

a. Under Ground - As per Sl.no. 1 (b) of Painting Scheme

ansportation	Cost/Mtr of Finished	Budge Budge				T)	
Extra Tr	Cost/Mt	Pipe to	Site			E FORMA	
ty Base Price of Extra inside Coating Extra inside Coating Extra Transportation	Rate/Mtr (Coal Tar	Epoxy Primer - 1 x Epoxy - 1 x 100 Pipe to Budge Budge	50 Microns) – Primer Microns) – Over Coat			FILE -PRICE FORMAT - GIVEN BY US (REFER ENCLOSED PRICE FORMAT)	
Extra inside Coating	Rate/Mtr (Coal Tar Rate/Mtr (Coal Tar	Epoxy Primer - 1 x	50 Microns) - Primer	Coat		AT- GIVEN BY US (RI	didie direct or man document
Base Price of	Pipe	Rate/Mtr	(Ex-Works)	as per TDC:	TDG:07:05	-PRICE FORM	Ì
	in Mtrs					JSE EXCEL FILE	
Sl. Pipe Size Total Q						USE	
SI.	Š						

In this part of bid, the bidder shall provide the price strictly in the below mentioned format.

b. Over Ground - As per Sl.no. 2 (b) of Painting Scheme

!	FER	FOR GIVING YOUR OFFER	Ā			
FORMAT)	FILE -PRICE FORMAT- GIVEN BY US (REFER ENCLOSED PRICE FORMAT)	AT-GIVEN BY US (RE	E -PRICE FORM	JSE EXCEL FILI	USE	
			TDG:07:05			
		Coat	as per TDC:			
Site	50 Microns) – Primer Microns) – Over Coat	50 Microns) - Primer	(Ex-Works)			
Pipe to Budge Budge	Epoxy Primer - 1 x Epoxy - 1 x 100 Pipe to Budge Budge	Epoxy Primer - 1 x	Rate/Mtr			
Cost/Mtr of Finished	Rate/Mtr (Coal Tar	Rate/Mtr (Coal Tar Rate/Mtr (Coal Tar	Pipe	in Mtrs		No
Extra Transportation	Extra inside Coating	Base Price of Extra inside Coating Extra inside Coating	Base Price of	Total Qty	Pipe Size	SI.

-5-PRICE:

In this part of bid, the bidder shall provide the price strictly in the below mentioned format.

Alternate - 2: As per Quality Plan No. 6914: OPC: 04 Rev 02-A

a. Under Ground - As per Sl.no. 1 (a) and (b) of Painting Scheme

Outside Extra Transportation	Rate/Mtr (Coal Tar Pipe to Budge Budge	Site				MAT)	
	Rate/Mtr (Coal Tar	Epoxy Primer – 1 Site	Epoxy $-1 \times x \times 50 \text{ Microns}$	Primer Coat		LOSED PRICE FOR	-
Extra inside	Rate/Mtr	(Coal Tar	Epoxy - 1 x	100 Microns) Primer Coat	Finish Coat	JS (REFER ENC	JR OFFER
Price of Extra inside Coating Extra inside Extra	Epoxy Primer – 1 x Rate/Mtr	50 Microns) – Primer (Coal Tar	Coat			3 -PRICE FORMAT- GIVEN BY US (REFER ENCLOSED PRICE FORMAT)	FOR GIVING YOUR OFFER
Base Price of	Rate/Mtr	(Ex-Works)	as per TDC:	TDG:07:05		L FILE -PRICE F	
SI. Pipe Size Total Qty Base	CINTAT III				,	USE EXCEL FILE	
Pipe Size							
SI.							

b. Over Ground - As per Sl.no. 2 (a) and (b) of Painting Scheme

Extra	Transportation	Cost/Mtr of	Finished Pipe to	Budge Budge	Site			
Extra Outside Extra	Coating	(Coal Rate/Mtr (Coal Tar Cost/Mtr	Epoxy Primer - 1 x Finished Pipe to	Epoxy - 1 x 100 50 Microns) - Budge	Microns) - Over Primer Coat		ED PRICE FORMAT	
inside Extra		(Coal		x 100	- Over		SOTONE	
Extra	Coating	Rate/Mtr	Tar	Epoxy -1	Microns) -	Coat	JS (REFER I	IR OFFER
Price of Extra inside Coating Extra	Rate/Mtr (Coal Tar Coating	Epoxy Primer - 1 x Rate/Mtr	50 Microns) - Primer Tar	Coat			-PRICE FORMAT- GIVEN BY US (REFER ENCLOSED PRICE FORMAT)	FOR GIVING YOUR OFFER
		Rate/Mtr	(Ex-Works)	as per TDC:	TDG:07:05		L FILE -PRICE F	•
Sl. Pipe Size Total Qty Base	in Mtrs	•					USE EXCEL FILE	
Pipe Size	•							
SI.	Š							

BHARAT HEAVY ELECTRICALS LIMITED

ENQUIRY (INDIGENOUS)

(A Government of India Undertaking) 80, G.N.ROAD, T.NAGAR Purchase Department - Piping Centre CHENNAI - 600 017. TAMILNADU (INDIA)

PHONE:

GRAMS: BHARATELEC

FAX NO: E-mail: Web:

Enquiry	No	Enquiry Date	Due Date for Quotation
401070	0039	23.10.2007	07.11.2007

Please quote Enquiry No, Date and due date in all correspondences.

This is only a request for quotation and not an order

<u> </u>					
ltem	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	159385960000 PIPE DIA1626X14 OG (SPI/LONG) IS3589-410 TDC: TDG:07:05 Length: 10000.00	M	50.000	50.00	28.02.08
20	159386020001 PIPEDIA1829X14(SPI/LS)IS3589-410MPA- OG TDC: TDG:07:05 Length: 10000.00	M	30.000	30.00	28.02.08
30	1593859600UG PIPE DIA 1626X14(SPI/LONGI)IS3589-410MPA TDC: TDG:07:05 Length: 10000.00	M	10.000	10.00	28.02.08
40	1593860200UG PIPEDIA1829X14(SPIL/LS)IS3589- 410MPA-UG TDC: TDG:07:05 Length: 10000.00	M	200.000	200.00	28.02.08
50	1593870400UG PIPE 2435X18 IS3589FE410(SPIRAL/LS) TDC: TDG:07:05	M	170.000	170.00	28.02.08

General Note:

Length: 10000.00

Enclosures:

"LD clause has to be confirmed without fail."

The offers should reach us before the time of opening of tenders. The offers will be opened at 14:30 hours on the due date in the presence of the tenderers who may like to be present.

Late tenders are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

MANAGER / BURCHASE (Piping Centre)

Bharat Heavy Electricals Ltd, Piping Centre, Chennai - 600 017

Painting Scheme For CW, ACW Piping.
Project: BUDGE BUDGE- UNIT - III 1 X 250 MW
Customer Nos: 0329, 6914

QP No: 6914: QPC: 04

Rev:02-A Date:20.09.2007 Page:01.of 01

		7	_		Т			Г			 Ι			Т				
	Total DFT microns min		50	3		150			. 20			150			50			
	No of		ı			-			1			-						
Finish coat	Paint		ı		Coal tar Epoxy	DFT 100 microns			1		Coal tar Epoxy	DFT100 microns						
ate coat	No of		1	-		į			i			1						
Intermediate coat	Paint					ı			ı			1						
at	No of coat		-			-			<u></u>			-			-			
Primer coat	Paint	Coal tar epoxy	primer	DFT 50µ-min	Coal tar epoxy	primer	DFT 50µ-min	Coal tar epoxy	primer	DFT 50µ-min	Coal tar epoxy	primer	DFT 50µ-min	Coal tar epoxy	primer	DFT 50µ-min		
Surface	Surface Profile	Blast clean to	Sa 2 1/2		Blast clean to	Sa 2 1/2		Blast clean to	Sa 2 1/2		Blast clean to	Sa 2 1/2		Blast clean to	Sa 2 1/2			
	Company Description	BURIED PIPING	DIAMETER > 1000 mm	a) External Surface	b) Internal Surface			2 OVER GROUND PIPING	DIAMETER > 1000 mm	a) External Surface	b) Internal Surface				DIAMETER < 1000 mm	External Surface	(Boiler Aux Cooling water)	
છ	ဍိ	_						7						ന				

Note:
1) Surface cleaning shall be to Sa 2 1/2 and surfaceprofile/roughness shall be measured by means of Press `O' film and recorded.

2) Holiday test shall be conducted on fully cured coatings as per manutacturer recommendations and shall be witnessed by BHEL/BHELnominated agencies.

Prepared By: R.JANARTHANAN.

Reviewed & Approved By: G.PANNEER SELVAM

Piping Centre, Chennai - 600 017 Bharat Heavy Electricals Ltd,

Painting Scheme For CW, ACW Piping.
Project: BUDGE BUDGE-UNIT-III 1 X 250 MW
Customer Nos: 0329, 6914

Rev: 02 Date: 20.09.2007 Page: 01 of 01 QP No: 6914: QPC: 04

ω		2			<u>z s:</u>]
OVER GROUND PIPING DIAMETER < 1000 mm External Surface (Boiler Aux Cooling water)	b) Internal Surface.	OVER GROUND PIPING DIAMETER > 1000 mm a) External Surface	b) Internal Surface	BURIED PIPING DIAMETER > 1000 mm a) External Surface	PGMA Description	T
l	Blast clean to Sa 2 1/2	-	Blast clean to Sa 2 1/2	1	Surface Preparation & Surface Profile	T
I	Coal tar epoxy primer DFT 50µ-min		Coal tar epoxy primer DFT 50µ-min	I	Primer coat	
ı		1	1	1	at No of coat	
[1	-	-	_	Intermediate coat Paint No of coat	
1		Į	٠,۱	1.	No of coat	
ı	Coal tar Epoxy DFT100µ	1	Coal tar Epoxy DFT 100µ	1	Finish coat Paint	T
l	-7	ı		1	No of coat	
** refer Note 3 below	150	** refer Note 3 below	150	** refer Note 3 below	Total DFT microns min	

3) No painting on external surface, however painting will be done by BHEL/PSER as per contract requirements at site. 1) ROZP : Red Oxide Zinc Phosphate Paint 2) μ = microns

Prepared By: R.JANARTHANAN.

Reviewed & Approved By: G.PANNEER SELVAM







