

BHEL : PIPING CENTRE : CHENNAI - 17

Statement - Commercial Terms - BHEL Terms vis-à-vis Terms to be quoted by the Bidder

ENQ NO. 4011200005 DT:13.02.12 - IS 3589 Pipes for Sagardighi Project Site(2 x 500) MW with Internal and External

Coating

1. Dia 1829 mm x 16 mm OG -130.0 Meters
2. Dia 2235 mm x 18 mm UG -125.0 Meters
3. Dia 2235 mm x 18 mm OG - 40.0 Meters

	COMMERCIAL		BIDDER
A	TERMS OF PAYMENT	100% within 45 days from the date of submission of despatch documents.	
1	PRICE VARIATION	FIRM	
2	LIQUIDATED DAMAGES	1/2 % PER WEEK - MAX 5%	
3	DELIVERY	31.03.2012	
4	TOLERANCE	+ /-2 Mtrs per size of PO Qty	
5	VALIDITY	60 DAYS	
6	EXCISE DUTY	NIL, BEING MEGA PROJECT	
7	APPLICABLE TAXES	VAT / CST	
8	SERVICE TAX ON TRANSPORTATION	WHETHER INCLUDED OR NOT QUOTED - TO CLEARLY INDICATE	
9	QTY OFFERED	1. Pipe Dia 1829mm x 16 mm OG - 130.0 Mtrs 2. Pipe Dia 2235mm x 18 mm UG - 125.0 Mtrs 3. Pipe Dia 2235mm x 18 mm OG - 40.0 Mtrs	
B	TECHNICAL		
1	TDC	TDG:07 : 05	
2	PAINTING QP	QP NO.7169:QPC:12 / REV:02 DT 22.11.2011	
3	SUPPLY LENGTH OF PIPE	7 - 12.5 Meters	
4	SUPPLY FROM	WORKS	
5	MOU TERMS	ACCEPTANCE	
	Remarks		

Sign-B
14/2/12

BHEL : PIPING CENTRE : CHENNAI - 17

Limited Tender No. 4011200005 Dt.13.02.2012

This is an excel template to be used by the bidder for arriving at the Total Landed Cost in INR for bidders to bid during the reverse auction

ITEM SL.NO. 10

ITEM DESCRIPTION : CW (IS 3589) Pipe Dia 1829 mm x 16 mm OG - 130 Meters - Despatch to Sagardighi Project Site

Work Order Details		P 7169 1 80 468 - 002 - 130 Meters
Item Sl No	Tender Serial No ----->	10
	Item Description ----->	PIPE DIA 1829 mm x 16 mm OG -130 Meters (LS/SPIRAL) IS3589-410 MPA TDC : TDG : 07 : 05 Sagardighi Project Site Rate per Meter in INR
Elements of Cost		
1	BASE PRICE including P & F (for Bare Pipe) : Detail Description (To be filled by the vendor in INR)	
	Painting Charges -Overground Piping	
	a. Internal - Epoxy resin based Red Oxide Primer - 1 x 40 Microns - Primer Coat	
	b. Internal - Coal Tar Epoxy - 2 x 100 Microns - Finish Coat	
2	c. External - Red Oxide Zinc Phosphate - Alkyd base to IS 12744 - 2 x 25 Microns - Primer Coat	
	d. External -Synthetic enamel Long Oil Alkyd to IS 2932 smoke grey shade no.692 of IS:5 - 2 x 35 Microns - Finish Coat	
3	CST (applicable on Base price+Painting) or VAT	%
4	Freight Charges excluding service tax (up to Sagardighi Project site)	Rate per Meter
5	Service Tax, if and as applicable, on Freight - Pl mention % and Rate	%
6	Other Statutory Levies, if and as applicable - Pl mention % and Rate	%
7	Transit Insurance Charges {Transit insurance by BHEL @ 0.05% on Basic Price including P&F, Taxes, Duties and Freight - (1+2a+2b+2c+3+4+5+6*0.05%)}	%
8	Total Price (Rate per Meter) - (1+2+3+4+5+6+7)	

** - Please mention the % of Service Tax, other Statutory levies, if applicable

*** - This project being Mega power project is eligible for Excise Duty exemption. Necessary documents will be provided by BHEL for the same. Kindly take this into account while submitting the bid.

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BHEL : PIPING CENTRE : CHENNAI - 17
Limited Tender No. 4011200005 Dt.13.02.2012

This is an excel template to be used by the bidder for arriving at the Total Landed Cost in INR for bidders to bid during the reverse auction
ITEM SL.NO. 20 & 40

ITEM DESCRIPTION : CW (IS 3589) Pipe Dia 2235 mm x 18 mm UG - 65 Meters - Despatch to Sagardighi Project Site

Work Order Details		P 7169 1 80 468 - 003 - 65 Meters	
		P 7170 1 80 468 - 002 - 60 Meters	
		20 & 40	
Item SL No	Tender Serial No ----->	PIPE DIA 2235 mm x 18 mm UG - 125 Meters (LS/SPIRAL) IS3589-410 MPA TDC : TDG : 07 : 05 Sagardighi Project Site Rate per Meter in INR	
	Item Description ----->		
	Elements of Cost		
1	BASE PRICE including P & F (for Bare Pipe) : Detail Description (To be filled by the vendor in INR)		
	Painting Charges - Underground Piping		
	a. Internal - Epoxy resin based Red Oxide Primer - 1 x 40 Microns - Primer Coat		
2	b. Internal - Coal Tar Epoxy - 2 x 100 Microns - Finish Coat		
	c. External - Red Oxide Zinc Phosphate - Alkyd base to IS 12744 - 1 x 30 Microns - Primer Coat		
3	CST (applicable on Base price+Painting) or VAT	%	
4	Freight Charges excluding service tax (up to Sagardighi Project site)	Rate per Meter	
5	Service Tax, if and as applicable, on Freight - Pl mention % and Rate	%	
6	Other Statutory Levies, if and as applicable - Pl mention % and Rate	%	
7	Transit Insurance Charges {Transit insurance by BHEL @ 0.05% on Basic Price including P&F, Taxes, Duties and Freight - (1+2a+2b+2c+3+4+5+6*0.05%)}	%	
8	Total Price (Rate per Meter) - (1+2+3+4+5+6+7)		

** - Please mention the % of Service Tax, other Statutory levies, if applicable

*** - This project being Mega power project is eligible for Excise Duty exemption. Necessary documents will be provided by BHEL for the same. Kindly take this into account while submitting the bid.

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This is an excel template to be used by the bidder for arriving at the Total Landed Cost in INR for bidders to bid during the reverse auction
 ITEM SL.NO. 30 & 50

ITEM DESCRIPTION : CW (IS 3589) Pipe Dia 2235 mm x 18 mm OG - 40 Meters - Despatch to Sagardighi Project Site

Work Order Details		P 7169 1 80 468 - 004 - 20 Meters
		P 7170 1 80 468 - 003 - 20 Meters
		30 & 50
Item SI No	Tender Serial No ----->	
	Item Description ----->	
	Elements of Cost	PIPE DIA 2235 mm x 18 mm OG - 40 Meters (LS/SPIRAL) IS3589-410 MPA TDC : TDG : 07 : 05 Sagardighi Project Site
	BASE PRICE including P & F (for Bare Pipe) : Detail Description (To be filled by the vendor in INR)	Rate per Meter in INR
1	Painting Charges -Overground Piping	
	a. Internal - Epoxy resin based Red Oxide Primer - 1 x 40 Microns - Primer Coat	
	b. Internal - Coal Tar Epoxy - 2 x 100 Microns - Finish Coat	
2	c. External - Red Oxide Zinc Phosphate - Alkyd base to IS 12744 - 2 x 25 Microns - Primer Coat	
	d. External -Synthetic enamel Long Oil Alkyd to IS 2932 smoke grey shade no.692 of IS:5 - 2 x 35 Microns - Finish Coat	
3	CST (applicable on Base price+Painting) or VAT	%
4	Freight Charges excluding service tax (up to Sagardighi Project site)	Rate per Meter
5	Service Tax, if and as applicable, on Freight - PI mention % and Rate	%
6	Other Statutory Levies, if and as applicable - PI mention % and Rate	%
7	Transit Insurance Charges {Transit insurance by BHEL @ 0.05% on Basic Price including P&F, Taxes, Duties and Freight - (1+2a+2b+2c+2d+3+4+5+6*0.05%)}	%
8	Total Price (Rate per Meter) - (1+2+3+4+5+6+7)	

** - Please mention the % of Service Tax, other Statutory levies, if applicable

*** - This project being Mega power project is eligible for Excise Duty exemption. Necessary documents will be provided by BHEL for the same. Kindly take this into account while submitting the bid.

Signature
 14/2/12

		Manufacturing Quality Assurance Plan															
Manufacturer's Name & Address BHARAT HEAVY ELECTRICALS LIMITED PIPING CENTRE, CHENNAI-17 QUALITY ASSURANCE & CONTROL DEPT.												PROJECT NAME: SAGARDIGHI TPEP PHASE-II UNIT 3&4(2X500MW)		Prepared by VIJAYANANDAR VELU EDG/BA		Signature 	
												Checked by A. ANNIEK SELVAM DGM/BA		Signature 			
Contract No.: WBPDC/SGTTP/S/028												BHEL Customer No: 7169, 7170.		Approved by A. ANNIEK SELVAM DGM/BA		Signature 	
Item Name : PAINTING SCHEME FOR LP PIPING FABRICATION												QPNo:		7169:QPC:12		REV.NO:02	
Sl. NO		PGMA / Description		Surface Preparation & Surface Profile		Primer coat Primer		No of coats		Intermediate coat Paint		No of coats		Shade		1	
1		(a) Internal Surface - CW Pipe (for pipe dia - 1000 mm and above)		Blast Cleaning SSPC SP-10 SA 2½ (Refer Note 1)		Epoxy resin based Red oxide Primer (Refer Note 2)		1 (40 Microns Min. per coat)		—		—		—		Coal epox (Ref (Note 2))	
1		(b) Holiday test (Refer Note 3)		Holiday testing by low voltage (75 Volts Min.) wet sponge Holiday detector or by High Manufacturer subjected to minimum of 5V / Micron). Holiday test													
2		External Surface of CW -Buried Piping / Encased in concrete for pipe dia- 1000 mm. and above. (Temporary Protection for transportation from works to site).		SSPC-SP3 / Power Tool Cleaning		Red Oxide Zinc Phosphate (Alkyd base to IS: 12744)		1 (30 Microns per coat)		—		—		—		1 Distributed	
3		External Surface (over ground piping) of CW,ACW (For all diameters)		SSPC-SP3 / Power Tool Cleaning		Red Oxide - Zinc Phosphate (Alkyd base to IS: 12744)		2 (25 Microns per coat)		—		—		—		2 Approved	
4		External Surface of ECW, Plant water (For all diameters)		SSPC-SP3 / Power Tool Cleaning		Red Oxide - Zinc Phosphate (Alkyd base to IS: 12744)		2 (25 Microns per coat)		—		—		—		3 Approved except as noted. Forward final drawing.	
5		Galvanised and Stainless steel Piping														SEE COVERING LETTER	
												Letter PCC/CH/0119		Date: 23.11.11		Ref. No	

DEVELOPMENT CONSULTANTS
PRIVATE LIMITED
 Reviewed only for general conformance with Contract drawings and specifications.
 Contractor to be responsible for any errors and for fulfillment of detailed requirements of contract documents

ACTION: **DATE:** 23.11.11
DISTRIBUTED BY: T. Balakrishnan

1	Distributed	4	Approved except as noted. Resubmission required
2	Approved	5	Disapproved. See accompanying letter
3	Approved except as noted. Forward final drawing.	6	For information and record only

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.
 4. Painting done at shop is for protection during transit & storage. Epoxy based Coal tar tape wrapping as per contract requirement will be done by BHEL Erection Group.

Manufacturer's Name & Address		Manufacturing Quality Assurance Plan			
BHARAT HEAVY ELECTRICALS LIMITED PIPING CENTRE, CHENNAI- 17 QUALITY ASSURANCE & CONTROL DEPT.		PROJECT NAME: SAGARDIGHI TPEP PHASE-II UNIT 3&4(2X500MW)			
Contract No.: WBPCL/SGTTP/S/028		BHEL Customer No: 7169, 7170.		Prepared by VIVEKANANDA YELLU Checked by G. PANNER SELVAM Approved by G. PANNER SELVAM	
Item Name : PAINTING SCHEME FOR LP PIPING FABRICATION		QPN: 7169:QPC:12		DATE : 22.11.2011	
PGMA / Det		Finish coat		Total DFT Microns (Min.)	
1		Intermediate coat		1 of 1	
2		Paint		Shade	
3		No of coats		11	
4		Shade		12	
5		No of coats		240 Microns (Refer Note 3)	
6		Shade		13	
7		No of coats		2	
8		Shade		(100 Microns Min. per coat)	
9		Paint		9	
10		No of coats		8	
11		Shade		Coal tar epoxy (Refer Note 2)	
12		Paint		6	
13		No of coats		7	
14		Shade		8	
15		Paint		9	
16		No of coats		10	
17		Shade		11	
18		Paint		12	
19		No of coats		13	
20		Shade		14	
21		Paint		15	
22		No of coats		16	
23		Shade		17	
24		Paint		18	
25		No of coats		19	
26		Shade		20	
27		Paint		21	
28		No of coats		22	
29		Shade		23	
30		Paint		24	
31		No of coats		25	
32		Shade		26	
33		Paint		27	
34		No of coats		28	
35		Shade		29	
36		Paint		30	
37		No of coats		31	
38		Shade		32	
39		Paint		33	
40		No of coats		34	
41		Shade		35	
42		Paint		36	
43		No of coats		37	
44		Shade		38	
45		Paint		39	
46		No of coats		40	
47		Shade		41	
48		Paint		42	
49		No of coats		43	
50		Shade		44	
51		Paint		45	
52		No of coats		46	
53		Shade		47	
54		Paint		48	
55		No of coats		49	
56		Shade		50	
57		Paint		51	
58		No of coats		52	
59		Shade		53	
60		Paint		54	
61		No of coats		55	
62		Shade		56	
63		Paint		57	
64		No of coats		58	
65		Shade		59	
66		Paint		60	
67		No of coats		61	
68		Shade		62	
69		Paint		63	
70		No of coats		64	
71		Shade		65	
72		Paint		66	
73		No of coats		67	
74		Shade		68	
75		Paint		69	
76		No of coats		70	
77		Shade		71	
78		Paint		72	
79		No of coats		73	
80		Shade		74	
81		Paint		75	
82		No of coats		76	
83		Shade		77	
84		Paint		78	
85		No of coats		79	
86		Shade		80	
87		Paint		81	
88		No of coats		82	
89		Shade		83	
90		Paint		84	
91		No of coats		85	
92		Shade		86	
93		Paint		87	
94		No of coats		88	
95		Shade		89	
96		Paint		90	
97		No of coats		91	
98		Shade		92	
99		Paint		93	
100		No of coats		94	
101		Shade		95	
102		Paint		96	
103		No of coats		97	
104		Shade		98	
105		Paint		99	
106		No of coats		100	
107		Shade		101	
108		Paint		102	
109		No of coats		103	
110		Shade		104	
111		Paint		105	
112		No of coats		106	
113		Shade		107	
114		Paint		108	
115		No of coats		109	
116		Shade		110	
117		Paint		111	
118		No of coats		112	
119		Shade		113	
120		Paint		114	
121		No of coats		115	
122		Shade		116	
123		Paint		117	
124		No of coats		118	
125		Shade		119	
126		Paint		120	
127		No of coats		121	
128		Shade		122	
129		Paint		123	
130		No of coats		124	
131		Shade		125	
132		Paint		126	
133		No of coats		127	
134		Shade		128	
135		Paint		129	
136		No of coats		130	
137		Shade		131	
138		Paint		132	
139		No of coats		133	
140		Shade		134	
141		Paint		135	
142		No of coats		136	
143		Shade		137	
144		Paint		138	
145		No of coats		139	
146		Shade		140	
147		Paint		141	
148		No of coats		142	
149		Shade		143	
150		Paint		144	
151		No of coats		145	
152		Shade		146	
153		Paint		147	
154		No of coats		148	
155		Shade		149	
156		Paint		150	
157		No of coats		151	
158		Shade		152	
159		Paint		153	
160		No of coats		154	
161		Shade		155	
162		Paint		156	
163		No of coats		157	
164		Shade		158	
165		Paint		159	
166		No of coats		160	
167		Shade		161	
168		Paint		162	
169		No of coats		163	
170		Shade		164	
171		Paint		165	
172		No of coats		166	
173		Shade		167	
174		Paint		168	
175		No of coats		169	
176		Shade		170	
177		Paint		171	
178		No of coats		172	
179		Shade		173	
180		Paint		174	
181		No of coats		175	
182		Shade		176	
183		Paint		177	
184		No of coats		178	
185		Shade		179	
186		Paint		180	
187		No of coats		181	
188		Shade		182	
189		Paint		183	
190		No of coats		184	
191		Shade		185	
192		Paint		186	
193		No of coats		187	