



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Limited

Regional Operation Division, Mumbai

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TENDER no RE/MUM/EXP/EM-1709

Date: 10/11/2017

**Amendment No 3**

**Sub: Amendment No 3 to Tender for Multimodal Transportation of Export Project Cargo from (1) Kolkata / Haldia / Kolaghat jetty / Chennai Ports, India to MSTPP Rampal Project site, Bangladesh (2) Mongla Port to MSTPP Rampal Project site, Bangladesh.**

**Ref: Annexure 11 i.e Packing List .**

**In this amendment Packing list of some of the manufacturing units are revised/replaced. Further dimensions of packages for some of the manufacturing units are hereby given as below.**

**1. Cargo dimensions of some of the units are given below.**

**(a) PSER(Power sector eastern region )**

SL. NO.	DESCRIPTION	QTY	Dimension Of Each Item (M)			Unit WT (IN MT)	CBM
			LEN.	WID.	HEI.		
	KOBELCO make CKE2500-2 Crane (250MT) with 85.3M BOOM, 24.4M JIB along with spares & accessories						
1	Carbody And Cabin Assembly With Mast Assy	1	12.24	3.44	3.51	45.33	147.791
2	Crawler Frame Assembly	2	8.97	1.38	1.37	21.00	16.959
3	Counter Weight Base Plate With Hanger	1	4.10	1.99	0.91	11.20	7.425
4	Counter Weight	16	1.84	1.20	0.49	5.63	1.082
5	Carbody Weight	2	2.70	2.47	0.47	6.35	3.134
6	Lower Boom Assembly With Backstop	1	8.30	2.36	2.46	5.15	48.186
7	Upper Boom Assembly	1	10.50	2.34	2.46	4.30	60.442
8	BOOM INSERT- 20FT + 10FT	1	9.27	2.34	2.41	2.65	52.277
9	BOOM INSERT- 40FT	5	12.32	2.34	2.41	2.90	69.477
10	FIX JIB INSERT 10FT	1	3.18	1.02	0.92	0.12	2.984
11	FIX JIB INSERT 20FT	2	6.18	1.02	0.92	0.20	5.799
12	FIX JIB- BOTTOM	1	4.78	1.04	0.93	0.25	4.623
13	FIX JIB- TOP	1	5.06	1.02	0.92	0.37	4.748
14	FIX JIB STRUT Assembly	1	5.15	1.20	0.82	0.34	5.068
15	Auxiliary Sheave Assembly	1	2.23	0.93	0.98	0.39	2.032
16	250MT HOOK	1	2.67	1.82	1.09	4.64	5.297
17	150/100MT HOOK (SET)	1	2.85	0.94	1.04	2.55	2.786
18	70MT HOOK	1	1.83	0.70	1.26	1.25	1.610
19	35MT HOOK	1	1.58	0.70	1.14	0.95	1.261
20	Ball Hook	1	1.20	0.38	0.38	0.45	0.173
21	Container	1	6.10	2.45	2.50	10.00	37.363
22	Misc Items & Spares (Set)	1				1.50	
23	Auxiliary Platform	5					
24	Step	4					

SL. NO.	DESCRIPTION	QTY	Unit. WT (MT)	EACH ITEM DIMENSIONS (Mtr.)			CBM
				LEN.	WID.	HEI.	
	LIEBHERR make LR1350/1 hydraulic crawler Crane (300MT) WITH 84M Boom & 24M Fixed JIB						
1	CRAWLER (SHOE 1.2M) INCL. 1×DRIVING GEAR	2	23.00	9.70	1.40	1.53	20.7774
2	Superstructure Incl. Center Section, SA- Frame Incl. Winch-IV, 2×Slewing Gear, 4×Support Plates, Winch-I & Winch-II	1	53.27	11.90	3.00	3.20	114.24
3	Additional Support	2	1.00	2.40	0.80	1.20	2.304
4	Center Counter- I	2	4.00	5.50	1.50	0.07	0.5775
5	Center Counter- Ii	4	7.50	2.40	1.20	0.90	2.592
6	Counterweight Base Frame	1	15.00	7.30	2.20	0.55	8.833
7	Counterweight Slabs	6	5.00	2.20	2.10	0.40	1.848
8	Counterweight Slabs	8	10.00	2.20	2.10	0.70	3.234
9	BOOM- 'S' Pivot Section 10M	1	8.70	10.40	3.00	2.70	84.24
10	BOOM- Inerm. Section 6M (S.10)	1	5.10	6.30	3.00	2.40	45.36
11	BOOM- Inerm. Section 12M (S.20)	2	8.20	12.30	3.00	2.40	88.56
12	BOOM- SL REDUCING SECTION	1	2.60	6.30	3.00	2.40	45.36
13	BOOM- Inerm. Section 6M (Li.10)	1	2.00	6.30	2.60	2.00	32.76
14	BOOM- Inerm. Section 12M (Li.10)	1	4.00	12.30	2.60	2.00	63.96
15	BOOM- Inerm. Section 12M (Li.10 FOR JIB)	1	4.00	12.30	2.60	2.00	63.96
16	BOOM- 'L' Head Section 8M, 200T	1	3.80	8.60	2.60	2.60	58.136
17	JIB- 'F' Pivot Section 6M	1	1.00	6.20	1.20	1.00	7.44
18	JIB- Interm. Section 6M (F.10)	2	1.00	6.20	1.20	1.00	7.44
19	JIB- 'F' Head Section 6M	1	1.50	6.40	1.20	1.00	7.68
20	FA- Frame	1	1.20	6.20	2.60	0.90	14.508
21	Hook Block 215T, 7 Sheave	1	5.20	1.80	1.11	1.50	2.997
22	Hook Block 107T, 3 Sheave	1	3.45	1.50	0.83	1.50	1.8675
23	Hook Block 47T, 1 Sheave	1	2.05	1.30	0.60	1.30	1.014
24	Container For Storage Of Crane Spares	1	10.00	6.10	2.45	2.50	37.3625
25	Ball Hook	1	0.00				
26	Misc. Spares Items						
27	Ladder	2	0.00				
28	Cat Walk Or Platforms						
29	Lattice Pipes Of Crane	1	1.00	12.00	0.50	0.50	3.00

SL. NO.	DESCRIPTION	QTY.	Unit WT (MT)	Dimension Of Each Item (M)			CBM
				LEN.	WID.	HEI.	
	LIEBHERR, LR1600/2 CRANE WITH 132M BOOM & 36M JIB						
1	CRAWLER left incl. 1 x driving gear (shoe 1,5 m)	1	33	11.00	1.85	1.90	38.67
2	CRAWLER right incl. 1 x driving gear (shoe 1,5 m)	1	33	11.00	1.85	1.90	38.67
3	CABIN Superstructure with crawler center section, 2x slewing gear. With Winch-I, Winch-II & SA-Frame incl. Winch IV	1	91	14.80	3.00	4.00	177.60
4	Center counterweight I	2	3	2.70	2.00	1.40	7.56
5	Center counterweight II	6	10	2.50	1.60	0.47	1.88
6	Counterweight base plate	2	5	2.70	1.80	1.80	8.75
7	counterweight cradle with centering	1	12	10.30	2.40	1.60	39.55
8	Counterweight slabs	48	10	2.50	1.60	0.47	1.88
9	BOOM-S-pivot section with Winch VI with Rope	1	18	10.40	3.00	3.00	93.60
10	BOOM-Interm. section 6 m (S.20)	2	5	6.40	3.00	2.80	53.76
11	BOOM-Interm. section 12 m (S-20)	1	9	12.40	3.00	2.80	104.16
12	BOOM-Interm. section 12 m (S-25)	3	9	12.40	3.00	2.80	104.16
13	BOOM-Interm. section 12 m (S-16Z)	1	8	12.60	3.00	2.80	105.84
14	BOOM-Interm. section 12 m (Li-09 for f-jib)	1	5	12.40	3.00	2.80	104.16
15	BOOM-SL-reducing section	1	5	7.20	3.00	2.80	60.48
16	BOOM-SW-head section	1	5	2.70	1.90	2.90	14.88
17	BOOM-Interm. section 6 m (S.20 / Li.10)	1	7	6.60	3.00	2.80	55.44
18	BOOM-Interm. section 6 m (Li.10), Case with pipelines grating winch	1	3	6.30	2.60	2.30	37.67
19	BOOM-Interm. section 12 m (Li.12 / F)	1	7	12.30	2.60	2.30	73.55
20	JIB-F-assembly unit incl. FA-Frame, F-pivot section and F-overrun protection	1	3	7.30	2.80	2.90	59.28
21	JIB-F- interm. section 6 m	2	1	6.20	2.10	1.70	22.13
22	JIB-F-head section, boom nose 36 t	1	2	8.00	2.10	1.70	28.56
23	MAST BOOM-D-pivot section incl. Winch III with luffing pulley block	1	23	9.90	3.00	2.70	80.19
24	MAST BOOM-D-interm. section 6 m	1	4	6.40	2.60	2.40	39.94
25	MAST BOOM-D-interm. section 12 m	1	8	12.40	2.60	2.40	77.38

26	MAST BOOM-D-head section	1	13	8.90	2.70	2.30	55.27
27	HOOK-roller set for sw-head section 300 t	1	1	1.60	1.30	1.00	2.08
28	HOOK-roller set for sw-head section 320 t	1	2	1.60	1.40	1.00	2.24
29	HOOK- 600/300 t	1	6	2.70	1.70	1.20	5.51
30	Part of HOOK 600/300 t 9-sheave with 5 add. counterweight plates	2	5	1.80	1.00	1.58	2.84
31	HOOK 125T 3 sheave with 8 additional counterweight. plate	1	6	2.00	1.15	1.20	2.76
32	load hook	1	1	1.30	0.62	0.60	0.48
33	Winch VI with Rope	1	5	1.90	1.80	1.35	4.62
34	Roller set for Hook 400/200T- 5 sheave with 5 add. CW. Plates	2	4	1.65	1.00	1.17	1.93
35	Hook Block 400/200 T	1	4	2.00	1.30	0.95	2.47
36	6 x tread grill for crawler	1	1	1.85	1.52	1.50	4.22
37	2x pedestal, 2x stairs	1	1	2.56	1.50	1.20	4.61
38	equipment (hydr. aggregate, í )	1	3	2.00	1.60	1.90	6.08
39	Miscellaneous spare parts (SET)	1	2	2.00	1.60	1.90	6.08
40	Boom Lacing Pipes	6	0	12.00			0.00
41	Container	1	12	6.10	2.43	2.59	38.37
42	MS plates for crane	10	6	12.00	2.43		0.00
43	Boom Stand	4					
44	Cabin Stand	4					

SL. NO.	DESCRIPTION	Unit. WT (MT)	Each Item Dimensions (Mtr.)		
			LEN.	WID.(Dia.)	HEI.(Dia.)
1	Reinforcement Steel wrapped in HDPE ( tentative 80000 FRT)	5	12	0.750	0.750
2	Misc. Items in loose conditions	2000	-	-	-

### (b) PC (Piping Centre, Chennai)

Sn	Description	Tentative Sise ( L x B x H )	Tentative boxes/ crates	Tentative WT (in MT)
1	STEEL BOX	13 M x 3 M x 3 M	50	1500
2	STEEL BOX - normal	12.5 M x 2.25 M x 1.50 M	150	4000
3	STEEL BOX - 6M	6.0 M x 2.25 M x 1.25 M	120	1500
4	STEEL BOX - 3M	3.0 M x 2.25 M x 1.25 M	170	1040
5	STEEL CRATES - BASE FRAME	12.5 M x 3.0 M ( L x B )	70	2000
6	Loose Items	To be shipped from Kolkata		6000

### (c) Unit : JHS (Jhansi)

SL	ITEM	Total Qty.	UNIT	Len in Mtr	Wid in Mtr	Hei in Mtr	cbm	Unit WT in MT
1	130/65/65 MVA 230/11.5/11.5 KV ST	1	NO.	6.50	3.00	4.50	87.75	120.00
	Other Accessories	10	Nos	3.00	3.00	4.00	36.00	40.00
	300 Oil Drums ( 4 drums in each pallet)	75	Nos	1.15	1.15	1.03	1.36	0.79
2	SPARES OF ABOVE ST	1	ST	3.00	3.00	3.00	27.00	5.00
3	65 MVA 21/11.5 KV UAT	4	Nos	4.50	3.50	4.50	70.88	48.00
	Other Accessories	6	Nos	3.00	3.00	4.00	36.00	20.00
	190 Oil Drums ( 4 drums in each pallet)	47.5	Nos	1.15	1.15	1.03	1.36	0.79
4	Spares Of Above UAT	1	ST	2.00	2.00	2.00	8.00	3.00
5	16 MVA 11/3.45 KV AUX TRFR	4	Nos	3.50	3.00	3.50	36.75	35.00
	Other Accessories	4	Nos	3.00	3.00	4.00	36.00	15.00
	100 Oil Drums ( 4 drums in each pallet)	25	Nos	1.15	1.15	1.03	1.36	0.79
6	Spares Of Above AUX TRFR	1	ST	2.00	2.00	2.00	8.00	3.00
7	12.5 MVA 11/3.45 KV CHP AUX TRFR	4	NO.	4.50	2.50	2.70	30.38	27.00
	Other Accessories	4	Nos	3.00	3.00	4.00	36.00	15.00
	80 Oil Drums ( 4 drums in each pallet)	20	Nos	1.15	1.15	1.03	1.36	0.79
8	Spares Of Above CHP AUX TRFR	1	ST	2.00	2.00	2.00	8.00	3.00
9	10 MVA 11/3.45 KV CHP AUX TRFR	2	Nos	4.50	2.50	2.70	30.38	27.00
	Other Accessories	4	Nos	3.00	3.00	4.00	36.00	15.00
	80 Oil Drums ( 4 drums in each pallet)	20	Nos	1.15	1.15	1.03	1.36	0.79
10	Spares Of Above CHP AUX TRFR	1	ST	2.00	2.00	2.00	8.00	3.00
11	2500 KVA 11/0.415 KV DTT	10	Nos	3.50	3.00	3.50	36.75	11.00
12	Spares Of Above DTT	1	ST	2.00	1.50	2.00	6.00	2.00

13	2000 KVA 11/0.415 KV DTT	10	Nos	3.20	2.80	3.20	28.67	9.00
14	Spares Of Above DTT	1	ST	2.00	1.50	2.00	6.00	2.00
15	95 KVp 800mA HVR TRFR With Silicon Oil & EC	112	Nos	2.00	1.60	2.40	7.68	2.00
	2 Oil drum	1	Nos	1.15	1.15	1.03	1.36	0.40
16	Spares Of Above HVR	1	ST	2.00	2.00	1.50	6.00	0.25
17	7500 KVA 21 KV DTT	3	Nos	6.00	4.00	6.00	144.00	25.00
18	95 KVp 800mA HVR TRFR With Silicon Oil	2	Nos	2.00	1.60	2.40	7.68	2.00

**2. Refer page no 37 of 46 of annexure 11. Packing list of Unit CFP is hereby replaced by packing list given below.**

**Unit : CFP Rudrapur**

Sno	Item Description	No of Pkgs	Len in mtr.	Wid. in mtr.	Hei in mtr.	Total CBM	Unit wt in MT	FRT
1	<b>TENTATIVE SHIPPING LIST OF IPBD</b>							
2	ASSY.OF ENCL.&CONDUCTOR (MAIN)	66	5.5	1.9	1.9	1310.43	2	1310.43
3	ASSY.OF ENCL.&CONDUCTOR (DELTA)	56	5.5	1.4	1.4	603.68	1	603.68
4	ASSY.OF ENCL.&CONDUCTOR (TAP-OFF)	34	5.5	1	1	187	0.5	187.00
5	ASSY.OF CHAMBER	2	6.3	2.7	2	68.04	2	68.04
6	ASSY.OF STAR DUCT	2	6.3	2.7	2	68.04	2	68.04
7	MAKE UP PIECE ASSY. (MAIN),FOR DIA 1700	9	2	1.9	0.8	27.36	0.5	27.36
8	MAKE UP PIECE PLAIN (MAIN), FOR DIA 1700	6	2	1.9	0.8	18.24	0.5	18.24
9	Make Up Piece With Window (DELTA), DIA 1200	6	2	1.4	0.8	13.44	0.35	13.44
10	MAKE UP PIECE PLAIN (DELTA), DIA 1200	4	2	1.4	0.8	8.96	0.3	8.96
11	Make Up Piece With Window (TAP-OFF),DIA 780	6	2	1	0.8	9.6	0.18	9.60
12	MAKE UP PIECE PLAIN (TAP-OFF), DIA 780	4	2	1	0.8	6.4	0.13	6.40
13	BUSDUCT ACCESSORIES	120	1.5	1.5	1.5	405	0.5	405.00
14	ASSY. OF SPVT CUBICLE 3-PHASE SET	6	3	2.5	1	45	1	45.00
15	ASSY. OF N.G.CUBICLE	2	2.4	2.2	1.9	20.064	1.3	20.06
16	N.G.T.	2	1.2	1.2	0.8	2.304	0.4	2.30
17	N.G.R.	2	1.2	1.2	0.8	2.304	0.3	2.30
18	Enclosure Support Structure	160	6	1.5	1.5	2160	0.6	2160.00
19	<b>Tentative Shipping List Of SPBD</b>							
20	Assy.Of Encl.&Conductor	700	4	2	0.8	4480	2	4480.00
21	Busduct Accessories	300	1.5	1.5	1.5	1012.5	0.5	1012.50
22	Enclosure Support Structure	150	6	1.5	1.5	2025	0.6	2025.00

**3. Refer page no 39 of 46 of annexure 11. Packing list of Unit TBG is hereby replaced by packing list given below.**

**Unit: TBG**

SN	Description	Qty	Total WT. in Kgs.	Drum WT.	Total Weight in (MT)
1	400kV GIS (1 Lot)	1.00	1020000.00		1020.00
2	230kV GIS	6.00	25000.00		150.00
3	220kV Cables & Accessories	3000M		330.00	110.83
4	390kV Surge Arresters	34.00	370.00		12.58
5	210kV Surge Arresters	16.00	150.00		2.40
6	120kV Surge Arresters	3.00	100.00		0.30
7	400kV Post Insulator	17.00	300.00		5.10
8	220kV Post Insulator	10.00	168.00		1.68
9	120kV Isolator (1-Ph)	2.00	230.00		0.46
10	220V Battery Bank	2.00	3734.00		7.47
11	48V Battery Bank	2.00	750.00		1.50

12	220V Battery Charger	2.00	350.00		0.70
13	48V Battery Charger	2.00	250.00		1.25
14	AC DC Boards	5.00	14000.00		14.00
15	ACSR Conductor	5437.50	2.04	330.00	12.08
16	Aluminium Tube	1000.00	9.06		9.06
17	Shield Wire	1000.00	0.66	330.00	0.99
18	Clamps & Connectors	1.00			10.00
19	Cu. Earthing Flats, Pipe Electrodes	1.00			56.00
20	Illumination	1.00			8.00
21	Cable Trench Material	1.00			50.00
22	LT Transformer	2.00	3200.00	0.00	6.40
23	Equipment Fixing Hardware	1.00	500.00		0.50
24	GI Pipe	1.00	2500.00		2.50
25	400kV CT	6.00	570.00		3.42
20	400kV WT	4.00	890.00		3.56
20	220kV WT	4.00	890.00		3.56
21	120kV CT	2.00	660.00		1.32
22	Marshalling Kiosks & Junction Boxes				3.50
23	Power & Control Cables				150.00
24	ACVS				1.50
25	FF System				3.00
26	EOT Cranes				20.00
27	Structure Hardware				25.00
28	Foundation Bolts				30.00

4. Refer page no 44 of 46 of annexure 11. Packing list of Unit TRY is hereby replaced by packing list given below.

Unit: TRY

Sn	DESCRIPTION	L MTR	B MTR	H MTR	No. of boxes/ crates	Gr. WT per pkg in MT	Total VOL (CBM)	Tot Wt. in MT	FRT	
1	STEEL BOX	13	3	1.25	10	22	487.50	220	487.50	
2	STEEL BOX	13	3	1.5	10	22	585.00	220	585.00	
3	STEEL BOX - normal	12.5	2.25	1.25	1250	23	43945.31	28750	43945.31	
4	STEEL BOX - normal	12.5	2.25	1.5	450	24	18984.38	10800	18984.38	
5	STEEL BOX - 6M	6	2.25	1.25	450	12	7593.75	5400	7593.75	
6	STEEL BOX - 3M	3	2.25	1.25	450	7	3796.88	3150	3796.88	
7	Steel Crates - Base Frame	21	2.5		40	22		880	880.00	
8	Steel Crates - Base Frame	19	2.5		60	22		1320	1320.00	
9	Steel Crates - Base Frame	17	3.5		50	21		1050	1050.00	
10	Steel Crates - Base Frame	17	2.5		80	22		1760	1760.00	
11	Steel Crates - Base Frame	12.5	2.5		60	22		1320	1320.00	
12	Steel Crates - Base Frame	12.5	3		60	22		1320	1320.00	
13	Loose structural items of columns and ceiling girders each piece weighing in the range of 10 MT to 60 MT								10000	10000.00

Note: 4500 MT of above Trichy cargo will be delivered at Kolkata/ Haldia port

REST OF THE TERMS AND CONDITIONS OF THE TENDER REMAIN UNCHANGED.

THIS AMENDMENT WILL ALSO FORM PART OF THE TENDER DOCUMENT.

Sign and Seal of the Bidder