



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN – 06

Ref: PSER:SCT:MUZ-T1358:TCN-06

Date: 08-08-2012

Sub	Tender Change Notice (TCN) - 06.	
Job	(i) PACKAGE-A: Handling at site, Storage Yard, Stores, including Unloading of Stator at designated place, Transportation to site of work, Unloading at site, Erection, Testing, Commissioning and Handing Over of Steam Turbine & its Auxiliaries, Generator & its Auxiliaries, Condenser, Pumps, LP Dosing, Condenser on Line Tube Cleaning System, Plate Heat Exchangers, Integral Piping, TG piping, Various TG Aux and Misc equipment etc. of 1 x 195 MW Unit#1 and various common system of Unit # 1 & Unit # 2 for 2x195MW Muzaffarpur TPP, Bihar. (ii) PACKAGE-B: Handling at site, Storage Yard, Stores, including Unloading of Stator at designated place, Transportation to site of work, Unloading at site, Erection, Testing, Commissioning and Handing Over of Steam Turbine & its Auxiliaries, Generator & its Auxiliaries, Condenser, Pumps, LP Dosing, Condenser on Line Tube Cleaning System, Plate Heat Exchangers, Integral piping, TG piping, various TG Aux and Misc Equipment etc. of 1 x 195 MW Unit#2 for 2x195MW Muzaffarpur TPP, Bihar.	
Ref	1.0	Tender no PSER:SCT:MUZ-T1358:12
	2.0	BHEL's NIT, vide reference no PSER:SCT:MUZ-T1358:2849 Date: 15-06-2012.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT: MUZ-T1358:TCN-01 Date: 05-07-2012.
	4.0	BHEL's TCN-02, vide reference no PSER:SCT: MUZ-T1358:TCN-02 Date: 13-07-2012.
	5.0	BHEL's TCN-03, vide reference no PSER:SCT: MUZ-T1358:TCN-03 Date: 21-07-2012.
	6.0	BHEL's TCN-04, vide reference no PSER:SCT: MUZ-T1358:TCN-04 Date: 30-07-2012
	7.0	BHEL's TCN-05, vide reference no PSER:SCT: MUZ-T1358:TCN-05 Date: 02-08-2012
	8.0	Other References,if any.

With reference to above, following points, relevant to tender, may please be noted and complied with while submitting the offer.

- 1) Annexure-I-(Rev-01)- Approximate Weight Schedule of Major Packages for each 195 MW set (Package –A/ Package-B as Applicable) of Volume-IF-Technical Conditions of Contract (Service)-TCC is revised as per Annexure-I-(Rev-02)- Approximate Weight Schedule of Major Packages for each 195 MW set (Package –A/ Package-B as Applicable) superseding earlier Annexure-I-(Rev-01).
- 2) Annexure-II- (Rev-01)- Consolidated Weight Schedule of Volume-IF-Technical Conditions of Contract (Service)-TCC is revised as per Annexure-II-(Rev-02)- Consolidated Weight Schedule superseding earlier Annexure-II-(Rev-01).
- 3) Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached format only.
- 4) All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

ENGINEER (SCT)

Encl: As Above

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211798/ 1691

ANNEXURE-I(REV-02)

**APPROXIMATE WEIGHT SCHEDULE OF MAJOR PACKAGES FOR EACH 195 MW SET
(PACKAGE-A/PACKAGE-B AS APPLICABLE)**

SL. NO	DESCRIPTION	APPROX. WT. IN KG.
A.	STEAM TURBINE : (BHEL BHOPAL)	
1.	EMBEDMENTS FOR ANCHOR JOINTS	1190
2.	ANCHOR BOLTS FOR LP TURBINE	695
3.	COMPONENTS OF BASE PLATE ASSEMBLY	6180
4.	BASE PLATE LP CASING	2950
5.	LP CASING UPPER PART (PARTIAL)	11400
6.	COMPENSATOR FOR LP CASING UPPER PART	5400
7.	COMPONENTS OF LP CASING	820
8.	ASSEMBLY DEVICE	36
9.	DUMMY SHAFT (IPC)	575
10.	VALVE SUPPORT FOR HP OVERHAUL	690
11.	COMPONENTS OF ASSY FIXTURE FOR HPT	13297
12.	HP/IP BEARING PEDESTAL ASSEMBLY	12080
13.	HP/IP BEARING PEDESTAL ARRANGEMENT PARTS	300
14.	AUXILLARIES OF LP TURBINE	851
15.	LP SHAFT SUPPORT BLOCK	1196
16.	LP JOINT COVERING	995
17.	TOOLS AND TACKLES	545
18.	SUPPORT OF CAP	708
19.	CAP COMPENSATOR ASSEMBLY	7568
20.	CAP –OBLIQUE REDUCER ASSEMBLY	114
21.	CAP MITRE BEND ASSEMBLY	1228
22.	CAP MANHOLE ASSEMBLY	1288
23.	CAP PIPE ASSEMBLY	618
24.	LP FRONT WALL (TS)	8400
25.	LP FRONT WALL (GS)	8400
26.	PARTS OF LP OUTER CASING ASSY	2181
27.	PARTS OF LP OUTER CASING	4511
28.	LONGITUDINAL GIRDER RIGHT	11350
29.	LONGITUDINAL GIRDER LEFT	11118
30.	LP SHAFT SEALING FRONT	1420
31.	LP SHAFT SEAL COMPENSATOR ASSEMBLY(TS)	1351
32.	LP SHAFT SEALING REAR	1420

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33.	LP SHAFT SEAL COMPENSATOR ASSEMBLY(GS)	1351
34.	EXTRACTION PIPE LINE A1	2815
35.	EXTRACTION PIPE LINE A2	933
36.	EXTRACTION PIPE LINE A3	765
37.	LP EXTRACTION PIPE SHEATHING	925
38.	INNER GUIDE PLATE OF DIFFUSER	320
39.	DIFFUSER (TS)	3300
40.	DIFFUSER (GS)	3300
41.	AUXILIARIES OF IP TURBINE	728
42.	LP REAR BEARING PEDESTAL ASSEMBLY	7490
43.	LP FRONT BEARING PEDESTAL ASSEMBLY	11000
44.	LP INNER OUTER CASING (U/H)	15500
45.	LP INNER CASING(L/H)	23890
46.	LP INNER CASING ASSY (LH) ASSLY FASTENERS	820
47.	LP INNER CASING	6000
48.	STEAM INLET PIPE	1150
49.	LP ROTOR	45500
50.	BEARING PEDESTAL ARRANGEMENT PARTS	850
51.	STUD HEATING DEVICE AND BREECH NUT HEATING DEVICE	190
52.	GROMMET SLINGS & LIFTING ARRANGEMENT	160
53.	IP TURBINE	56000
54.	HP TURBINE	54000
55.	HP INLET ASSEMBLY	20
56.	HP EXHAUST ASSEMBLY	1532
57.	HPT RELATED PARTS	120
58.	FRONT BEARING PEDESTAL ASSEMBLY	11760
59.	FRONT BEARING PEDESTAL PARTS	191
60.	IP TURBINE PARTS	250
61.	RATING ,COLLABORATION AND MONOGRAM PLATES	25
62.	IP INLET PIPE ASSEMBLY	5560
63.	OIL FLUSHING AND PRESSURE TEST DEVICE	66
64.	STEAM BLOWING &HYD TEST DEV	1931
65.	TOOLS AND PACKING DEVICES	345
66.	SUSPENSION OF VALVE (IV)	3442
67.	FIRE PROTECTION VALVE ETC	320
68.	ASSEMBLY DEVICE FOR VALVES	123
69.	CHANGE OVER VALVE	44

70.	ATT SOLENOID VALVES	76
71.	ESV&CV CASING WITH VALVES	15250
72.	IV & CV CASING WITH VALVE	18866
73.	ESV SERVOMOTOR WITH LS MTG	2764
74.	IV SERVOMOTOR ,LIMIT SWITCH MTG TEST VALVES	2270
75.	CONTROL VALVE SERVOMOTOR	2932
76.	IP CONTROL VALVE SERVOMOTOR	2046
77.	CRH NRVS WITH SERVOMOTOR	4645
78.	GOVERNING CONTROL RACK ASSEMBLY	2500
79.	GLAND STEAM PRESSURE INDICATOR	5
80.	FRAME FOR SUSPENSION (IV)	1472
81.	ITEMS OF FRAME FOR SUSPEN(IV)	325
82.	EMERGENCY GOVERNOR	61
83.	INJECTOR FOR SUCTION PIPE NB350	378
84.	INJECTOR NB300	499
85.	MAIN OIL TANK & NOZZLE ARRGT ASSY	9490
86.	OIL STRIPPER	83
87.	OIL STRAINERS	166
88.	VARIABLE ORIFICES THROTTLE VALVES & FLUSHING PARTS	100
89.	HOUSING FOR MS STRAINER	5400
90.	STEAM STAINER ASSY DEV,MS & HRH	551
91.	HOUSING FOR HRH STEAM STRAINER	6400
92.	STEAM STRAINER (MS)	184
93.	STEAM STRAINER HRH	385
94.	BLANKING ARRANGEMENT FOR MS STRAINER HOUSING	580
95.	BLANKING ARRANGEMENT FOR HR STRAINER HOUSING	740
96.	GASKETS FOR MS & HRH STRAINER HOUSINGS	20
97.	COMPENSATOR	27
98.	LEAKAGE OIL TANK	515
99.	WASTE OIL TANK	515
100.	OIL STRAINERS	83
101.	TURBINE INSTRUMENTS RACKS	1223
102.	IMPULSE PIPES (CARBON STEEL)	1385
103.	PRESS TRANSMITTERS,SWITCHES &GAUGES	575
104.	TRANSMITTERS & JB OF BEARINGS	60
105.	IMPULSE PIPES (ALLOY STEEL)	300

106.	TURBINE INSTRUMENTS RACKS	55
107.	FLOW MEASUREMENT DEVICE.	1265
108.	TOTAL	467782

SN	DESCRIPTION	APPROX. WT. IN KG.
B:	GENERATOR :(BHEL HARDWAR)	
01.	STATOR	218000
02.	GENERATOR ROTOR	42918
03.	END SHIELD LOWER HALF (TE)	5050
04.	END SHIELD LOWER HALF (EE)	5050
05.	HV BUSHING	480
06.	LOOSE ITEM OF WOUND STATOR	860
07.	GAS BAFFLE RING,INSERT COVER ETC	2388
08.	BEARING SHELLS	782
09.	END SHIELD UPPER HALF (TE)	4650
10.	END SHIELD UPPER HALF (EE)	4650
11.	SEAL RINGS	48
12.	DEVICE FOR ROTOR INSERTION INTO STATOR	691
13.	ERECTION DEVICES.	535
14.	GEN. ACCESSORIES	1046
15.	GEN. ACCESSORIES (TERMINAL BUSHING BOX)	3325
16.	WIRE ROPES	102
17.	DRY AIR BLOWER	40
18.	TERMINAL CONNECTORS	186
19.	CONSUMABLES	20
20.	BRUSHLESS EXCITER SET	20047
21.	EXCITER FRONT COVER	1487
22.	RR WHL COVER & SEALING WALL DE FOR EXCITER	770
23.	COOLER RACK ASSEMBLY	801
24.	EXCITER REAR COVER	1881
25.	EXC. BED PLATE ACCESSORIES	2430
26.	EXC. ACCESSORIES	150
27.	SEAL OIL UNIT	7825
28.	SEAL OIL STORAGE TANK	1025
29.	HYDROGEN DISTRIBUTER	150
30.	GAS UNIT	572
31.	CO ₂ VAPOURISER	145
32.	CO ₂ DISTRIBUTOR	116
33.	LIQUID DETECTOR RACK	238

34.	LOOSE VALVES	759
35.	LOOSE INSTRUMENTS	25
36.	CONSUMABLES FOR FOUNDATION ITEMS	5
37.	FOUNDATION ITEMS OF GENERATOR	7094
38.	HYDROGEN COOLERS - 2 NOS.	14460
39.	EXCITER AIR COOLERS –2 NOS.	2942
	TOTAL	353743

SN	DESCRIPTION	APPROX. WT. IN KG.
C:	HEAT EXCHANGERS	
	I) CONDENSER (BHEL HARDWAR) –	
1.	CONDENSOR HOTWELL	6183
2.	BOTTOM PLATE	19865
3.	WATER CHAMBER (LS)	11820
4.	WATER CHAMBER (RS)	11820
5.	FRONT WATER BOX (GEN. SIDE)	13250
6.	FRONT WATER BOX (TUR. SIDE)	13250
7.	REAR WATER BOX (GEN. SIDE)	9693
8.	REAR WATER BOX (TUR. SIDE)	9693
9.	LOWER DOME WALL (TUR END)	8398
10.	LOWER DOME WALL (GEN END)	8164
11.	LOWER DOME WALL (FBW SIDE)	6769
12.	LOWER DOME WALL (RWB SIDE)	6570
13.	SIDE WALL (TUR & GEN END)	15778
14.	UPPER DOME WALL (F.W.B.SIDE)	2435
15.	UPPER DOME WALL (R.W.B. SIDE)	2440.44
16.	DOME INTERNAL STIFFENING	12984
17.	SHELL INTERNAL DETAILS	69200
18.	AIR EXTRACTION PIPING	948.6
19.	W/BOX HINGE ARRANGEMENT	4586
20.	STEAM THROW DEVI CE	2058
21.	CONDENSOR LOOSE ITEMS	1000
22.	CONDENSOR LOOSE ITEMS (TOOLS & TACKLES)	200
23.	CONDENSOR INSTRUMENTATION	100
24.	CONDENSOR SUPPORT	8264.6
25.	CONDENSOR STAND PIPE NO1	48.2
26.	CONDENSOR STAND PIPE NO 2	48.2

27.	CONDENSATE SURGE TANK	6000
28.	TOTAL	251566.04

D) STATIC AUXILIARIES			
SL	DESCRIPTION	QTY(IN NOS)	APPROX. WT. IN KG.
1.	HP HEATER 5	1	26450
2.	HP HEATER 6	1	32750
3.	LP HEATER 1	1	11000
4.	LP HEATER 2	1	11000
7.	LP HEATER 3	1	11700
8.	STAND PIPE (LP HEATER 1)	3	117.449
9.	STAND PIPE (LP HEATER 1&2)	3	123
10.	DRAIN COOLER	1	2500
11.	TURBINE OIL COOLERS	2	16030
12.	GLAND STEAM CONDENSOR	1	774
13.	STAND PIPE FOR GSC	1	97.5
14.	FST & DEAERATOR		
14(i)	DEAERATOR	1	16331
14(ii)	FST – LEFT HAND SECTION	1	19,296
14(iii)	- MIDDLE HAND SECTION		21,782
14(iv)	- RIGHT HAND SECTION		19,842
15.	HP Drain Flash Tank	1	4725
16.	LP Drain Flash Tank	1	2200
17.	Unit Flash Tank	1	1080
18.	DMCW tanks (7.2M x 2M x2.5M capacity each)	1	6000
	TOTAL		203797.949

E) ROTATING AUXILIARIES			
SL	DESCRIPTION	QTY	APPROX. WT. IN KG.
1	VACUUM PUMP (BHOPAL SCOPE)	2	38000
2	BOILER FEED PUMP		
2.1	BFP SKID(PUMP ASSLY+BASE PLATE+TUBING+SEAL COOLERS)	3	17310
2.2	BP SKID(PUMP ASSLY+BASE PLATE+TUBING)	3	7500
2.3	GRILLAGE	3	13500
2.4	HYDRAULIC COUPLING	3	10680
2.5	HYDRAULIC COUPLING WO COOLER(DD)	3	4425
2.6	HYDRAULIC COUPLING WO COOLER(DD)	3	2325
2.7	HYD COUPLING LOOSE ITEMS	3	2130
2.8	BP SUCTION STRAINER	3	2400
2.9	BFP SUCTION STRAINER	3	2400

2.10	BFP RECIRCULATION VALVE	3	1050
2.11	LOOSE ITEMS	-----	2000
2.12	BFP MOTOR	3	45000
3	CONDENSATE EXTRACTION PUMPS		
3.1	CEP ASSEMBLY	2 .	9000
3.2	CANISTER	2	2000
3.3	CEP FOUNDATION RING	2	1000
3.4	CEP SUCTION STRAINER(DD)	2	1800
3.5	LOOSE ITEMS	1	210
3.6	CEP MOTOR	2	12000
4	ECW MOTOR(BHOPAL SCOPE)	2	12000
5	DMCW TG PUMPS (PEM SCOPE)	3 nos.	12000
6	DMCW SG PUMPS (PEM SCOPE)	2 NOS	8000
7	SUMP PUMPS (FIXED DUTY) (PEM SCOPE)	2 nos.	1500
8	ACW TG PUMPS (HORZ) (PEM SCOPE)	3 Nos	12000
	TOTAL		220230

F)	BOIs(PEM SCOPE)		APPROX. WT. IN KG.
1	CHEMICAL DOSING SYSTEM		
1A	HYDRAZINE DOSING SYSTEM	1	5000
1B	AMMONIA DOSING SYSTEM	1	5000
1C	NAOH DOSING SYSTEM	1	3000
2	PLATE HEAT EXCHANGERS (TG AUX.)	3 nos.	24000
3	PLATE HEAT EXCHANGERS (BOILER AUX.)	2 nos.	16000
4	SELF CLEANING STRAINER	2 nos.	8000
6	CONDENSER ONLINE TUBE CLEANING SYSTEM	2 NOS	16000
	TOTAL		77000

G) BOIs (BHEL BHOPAL SCOPE)

SI NO.	Item Description	Quantity	UNIT	Weight(kg)
1	LIFTING BEAM	1	no	4000
2	DUPLEX FILTER (LUBE OIL)	1	NO	610
3	DUPLEX FILTER (JACKING OIL)	1	NO	180
4	3 WAYS TEMP. CONTROL VALVE (MOTOR OPERATED)	1	NO	200
5	DOUBLE 3 WAY VALVE	1	NO	250
6	PRESSURE LIMIT VALVES	1	NO	20
7	LUBE OIL PURIFICATION SYSTEM (UNIT +CENTRAL)	1	SET	2500
8	OIL VAPOUR EXHAUSTER	2	NO	175
9	LEAD DIAPHRAGMS	4	NO	60

10	SPRAY NOZZLES	1	SET	5
11	DIRT CATCHERS	1	NO	10
12	DAMPERS	1	SET	180
13	VARIABLE LOAD SPRING CAGES	1	SET	600
14	TURBINE CLEADING	1	set	1000
15	TURBINE OIL	73	M3	72000
16	TURBINE INTEGRAL PIPING	1	SET	38000
17	HANGERS & SUPPORTS	1	SET	8935
18	FLOW NOZZLES FOR PG TEST	1	SET	1560
19	FIRE RESISTANT FLUID	1	LT	2295
20	LP BYPASS SYSTEM INCLUDING LP BYPASS VALVE WITH EHA	1	SET	15000
21	GEAR PUMP (LUBE OIL RECIRCULATION)	1	SET	50
22	VACUUM BREAKER VALVE ASSY	1	NO	400
23	SEAL STEAM & LEAKAGE STEAM CONTROL VALVE WITH PNEUMATIC ACTUATORS	1	NO	5500
24	NRV WITH ALUMINIUM FLAP	2	NO	30
25	CONDENSER TUBES	16654	NO	70780
26	AIR EXHAUSTER WITH MOTOR (For GSC)	2	NO	250
27	FLEXIBLE BEND	2	NO	
28	DRY AIR PRESERVATION SYSTEM	1	set	1100
29	JACKING OIL PUMPS WITH MOTOR AC & DC (SCREW TYPE)(BHOPAL SCOPE)	1	set	3480
30	EMERGENCY OIL PUMPS & AUX. OIL PUMP WITH MOTOR (EOP & AOP)(BHOPAL SCOPE)	1	set	5000
29	RE JOINTS & BUTTERFLY VALVES			
29.1	RE JOINTS			
29.1.1	INLET RE JOINT ASSY	1	NO	13500
29.1.2	OUTLET RE JOINT ASSY	1	NO	12200
29.2	BUTTERFLY VALVES			
29.2.1	1600 DIA WITH ELEC ACTUATOR(2500mmx2000mmx7	4	NO	4725

	50mm)			
29.2.2	600 DIA WITH MANUAL OPERATOR (1500mmx1100mmx400mm)	6	NO	825
29.2.3	450 DIA WITH ELEC ACTUATOR(1300mmx800mmx350mm)	3	NO	470
29.2.4	450 DIA WITH MANUAL OPERATOR (1300mmx800mmx350mm)	1	NO	445
29.2.5	500 DIA WITH ELEC ACTUATOR(6 NOS)(1300mmx800mmx350mm)	3	NO	695
29.2.6	400 DIA (16 ATA) WITH ELEC ACTUATOR(1100mx600mmx300mm)	2	NO	430
	TOTAL			267460

H) INSULATION	WEIGHT (IN KG)
Insulation (for piping & equipment under the scope of work)(BHOPAL scope)	75000

I) MISC PLATFORM & STRUCTURE	WEIGHT(IN KG)
PLATFORM & STRUCTURE	158

J) COMMON SYSTEM EQUIPMENT & AUXILIARIES COVERED IN THE SCOPE OF UNIT1 (PACKAGE-A) BUT EXCLUDED FROM UNIT II (PACKAGE-B)			
1	PORTABLE FIRE EXTINGUISHER	400 nos.	LS
2	SINGLE GIRDER MISC CRANE(8T CAPACITY, LIFT 6.5 m, SPAN 10.8M)	1 no.	3500
3	ELECTRIC WIRE ROPE HOISTS		
3.1	ECW PUMPS MOTOR HANDLING (3TCapacity)	2	800
3.2	VACUUM PUMPS MOTOR HANDLING(3TCapacity)	2	800
3.3	CONTROL FLUID ROOM(3TCapacity)	2	800
3.4	ACW PUMPS MOTOR HANDLING(5TCapacity)	2	1000
3.5	ELEVATOR M/C ROOM (TG hall)(3TCapacity)	2	900
3.6	ELEVATOR M/C ROOM (Service Bldg)(3TCapacity)	2	900

3.7	ELEVATOR M/C ROOM (Admin Bldg)(3TCapacity)	2	900
3.8	ELEVATOR M/C ROOM (ESP-VFD Bldg)(3TCapacity)	2	900
4	CLEAN OIL TANK	1 no.	9500
5	DIRTY OIL TANK	1 no.	9500
6	OIL UNLOADING TANK, 1 M ³	1 no.	500
7	CHAIN PULLEY BLOCKS (2T CAPACITY)	4 NOS	220
	TOTAL (EXCEPT FOR PORTABLE FIRE EXTINGUISHER)		30220

K) NOTE :

- 1) The information furnished in this section is only a summary list regarding the major equipment/ item to be erected and commissioned by the contractor. BHEL reserves the right of adding or excluding any components / items / system according to the site requirements / customer requirements to complete various systems under the scope of work in all respects.
- 2) Any other systems / components which are integral to equipment supplied by the manufacturing unit is also to be erected and commissioned by the contractor within the quoted / accepted rate / lump sum value.
- 3) The list is tentative and has been given to enable the contractor to study the nature of work to be done in this contract. There may be variation in size, weight etc.
- 4) Some of the packages may be sent in parts to suit the site condition / transportation, the same is to be assembled at site without any extra cost, likewise some package may be assembled together and sent as a single assy. Contractor may have to dismantle and erect or, erect as single assembly as per the instruction of BHEL Engineers without any extra cost.
- 5) The above information is to be used for assessment of the work quantum for 2 units of Muzaffarpur (2x195MW) project

ANNEXURE – II(REV-02)

CONSOLIDATED WEIGHT SCHEDULE

A) MAIN PACKAGES FOR UNIT 1 & COMMON SYSTEM (PACKAGE A)

Sl.No.	EQUIPMENT / PACKAGE	APPROX. WT. (in KG)
A	STEAM TURBINE & AUX.	467782
B.	TURBO GENERATOR & AUX.	353743
C.	CONDENSER	251566.04
D.	STATIC AUXILLARIES	203797.949
E.	ROTATING AUXILLARIES	220230
F	BOIs(PEM SCOPE)	77000
G	BOIs(BHOPAL SCOPE)	267460
H	INSULATION	75000
I	PLATFORM & STRUCTURES	90000
J	COMMON SYSTEM EQUIPMENT AND AUXILLARIES (INCLUDED IN PACKAGE 'A' SCOPE)	30220
	TOTAL WT.(APPROX.)	2036799

B) WEIGHT SCHEDULE OF MAIN PACKAGES FOR UNIT 2 (PACKAGE B)

Sl.No.	EQUIPMENT / PACKAGE	APPROX. WT. (in KG)
A	STEAM TURBINE & AUX.	467782
B.	TURBO GENERATOR & AUX.	353743
C.	CONDENSER	251566.04
D.	STATIC AUXILLARIES	203797.949
E.	ROTATING AUXILLARIES	220230
F	BOI(PEM SCOPE)	77000
G.	BOI (BHOPAL SCOPE)	267460
H	INSULATION	75000
I	PLATFORM & STRUCTURES	90000
	TOTAL WT.(APPROX.)	2006579

NOTE :

- 1) The quantities/weights mentioned in weight schedule is approximate only and given to facilitate the contractor to make assessment of the magnitude of work under this specification. These are liable to variations as per design consideration. The tenderer has to keep his lumpsum quoted rates firm for variation in weights for items under **rate schedule and no revision of rates / extra work will be entertained for increase in weight of these items except for SL No 2 of Vol-III of weight schedule.**
- 2) The quoted lumpsum price shall remain firm for variation upto +/- 20% in the weight for TG /Misc piping, i.e SI No2 of . Vol-III
- 3) If the variation in actual erected tonnage of TG piping, etc crosses the limit of +/- 20% of the individual group (i.e. SI No 2 of Vol-III) as indicated in appendix-III, the differential tonnage payment beyond the prescribed limit will be made/recovered in the final bill at the rate prescribed below:

For SI no 2 of VOL-III [TG cycle piping etc] of weight schedule, Rs 15,000.00/MT.

NO DEVIATION CERTIFICATE

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub : **No Deviation Certificate**

Ref : 1) Tender no PSER:SCT:MUZ-T1358:12

2) BHEL's NIT, vide reference no PSER:SCT:MUZ-T1358:2849 Date: 15-06-2012.

3) BHEL's TCN-01, vide reference no PSER:SCT: MUZ-T1358:TCN-01 Date: 05-07-2012.

4) BHEL's TCN-02, vide reference no PSER:SCT: MUZ-T1358:TCN-02 Date: 13-07-2012.

5) BHEL's TCN-03, vide reference no PSER:SCT: MUZ-T1358:TCN-03 Date: 21-07-2012.

6) BHEL's TCN-04, vide reference no PSER:SCT: MUZ-T1358:TCN-04 Date: 30-07-2012.

7) BHEL's TCN-05, vide reference no PSER:SCT: MUZ-T1358:TCN-05 Date: 02-08-2012.

8) BHEL's TCN-06, vide reference no PSER:SCT: MUZ-T1358:TCN-06 Date: 08-08-2012.

9) All other pertinent issues till date.

We hereby confirm that we have not changed/ modified/materially altered any of the tender documents as downloaded from the website/ issued by BHEL and in case of such observance at any stage, it shall be treated as null and void.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred NIT/Tender Specification.

We further confirm our unqualified acceptance to all Terms and Conditions, unqualified compliance to Tender Conditions, Integrity Pact (if applicable) and acceptance to Reverse Auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized representative of the bidder)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION DJ-9/1, SALLAKE CITY, KOLKATA - 700 091

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