

TENDER SPECIFICATION

NO: BHE/PW/PUR/CHT-ELE/1127

FOR HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION, CHECKING OF CALIBRATION, TESTING, COMMISSIONING AND HANDING OVER OF HT / LT POWER TRANSFORMERS, DAVR,ELECTROSTATIC PRECIPITATOR,SOOT BLOWER SYSTEM, VARIABLE FREQUENCY DRIVES FOR ID FANS, CABLING PACKAGE, AND ASSOCIATED EQUIPMENTS FOR 2X500 MW.MSPGCL Chandrapur Unit #8 and #9.

AT

MAHARASHTRA STATE POWER GENERATION COMPANY LIMITED

**CHANDRAPUR SUPER THERMAL POWER STATION EXPANSION PROJECT
(2X500MW)**

CHANDRAPUR, DIST- CHANDRAPUR (MAHARASHTRA)

VOLUME :II – PRICE BID

BOOK NO.



BHARAT HEAVY ELECTRICALS LIMITED

(A GOVERNMENT OF INDIA UNDERTAKING)

POWER SECTOR - WESTERN REGION

SHREEMOHINI COMPLEX

345, KINGSWAY - NAGPUR 440 001

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EARNEST MONEY DEPOSIT: Please see Notice Inviting Tender.

LAST DATE FOR: Please see Notice Inviting Tender.

TENDER SUBMISSION:

THESE TENDER SPECIFICATION DOCUMENTS CONTAINING **VOLUME-I-Tech Bid**, **VOLUME- II-Price Bid** AND **VOLIME-IBCD Rev-01 Rev-01** ARE ISSUED TO:

M/s.

PLEASE NOTE:

THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

For Bharat Heavy Electricals Limited

AGM (Purchase)

Place: Nagpur

Date:

BHEL PSWR NAGPUR
VOL-II-PRICE BID-1127 (Schedule of Rates and Quantities)
T.S.NO BHE/PW/PUR/CHT-ELE/1127

RATE SCHEDULE FOR MSPGCL Chandrapur, Unit-8&9, 2x500 MW, ELECTRICAL SYSTEMS

Handling at Storage Yard/ Stores, Transportation to Site, Calibration, Erection, Testing, Commissioning, Final Painting and Handing over of Electrical Works of MSPGCL Chandrapur, Unit-8&9 and their Auxiliaries etc.

Sl.no	Description of items	UOM	Quantity	Unit Rates in Figures (In Rs)	Unit Rates in Words (In Rs)	Total Amounts (In Rs)	APPLICABLE for Terms of Payment
SECTION-E1A: CABLE TRAYS AND ACCESSORIES							I.1
E1A.1	Ladder type 600(W) x 120 (H) mm	Mtrs.	2050				
E1A.2	Ladder type 450(W) x 120 (H) mm	Mtrs.	6125				
E1A.3	Ladder type 300(W) x 120 (H) mm	Mtrs.	2000				
E1A.4	Ladder type 150(W) x 120 (H) mm	Mtrs.	8360				
E1A.5	Perforated type 100(W)x120(H)mm	Mtrs.	500				
E1A.6	Perforated type 50(W)x120(H)mm	Mtrs.	500				
SECTION-E2A : HT POWER CABLES (Generally armoured/Unarmoured)							I.2
E2A.1	1C X 630sqmm 3.3 kv HT XLPE Aluminium	Mtrs.	10000				
SECTION-E2B : LT POWER CABLES (Generally armoured/Unarmoured)							I.2
E2B.1	3.5C X 120sqmm Aluminium	Mtrs.	8800				
E2B.2	2C X 120sqmm Aluminium	Mtrs.	71500				
E2B.3	3C X 16sqmm Aluminium	Mtrs.	1600				
E2B.4	3C X 25 sqmm Aluminium	Mtrs.	27000				
E2B.5	3C X 50 sqmm Aluminium	Mtrs.	3200				

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E2B.6	3C X 2.5sqmm cu.	Mtrs.	60300				
E2B.7	2C X 2.5sqmm cu.	Mtrs.	28600				
SECTION-E2C : LT CONTROL CABLES (Generally Unarmoured, Screened or Unscreened)							I.2
E2C.1	4C ,1.5 sqmm Copper(Screened)	Mtrs.	50000				
E2C.2	3C, 2.5 sqmm Copper	Mtrs.	81200				
E2C.3	7C, 2.5 sqmm Copper	Mtrs.	16400				
E2C.4	12C ,2.5 sqmm Copper	Mtrs.	55100				
E2C.5	5C ,2.5 sqmm Copper	Mtrs.	40000				
SECTION-E3 : JUCTION BOXES AND PUSH BUTTON							I.3
E3.1	Junction Boxes 485x150x360 mm approx.	Nos.	136				
E3.2	Start Stop Push Button Station 180X100X250 mm approx.	Nos.	600				
E3.3	Junction box for Hoper ,Support& Shaft heaters 500X178X315 mm approx.	Nos.	336				
SECTION-E4 : STRUCTURAL STEEL							I.4
E.4.1	Structural Steel fabrication & installation (MS angle, Channel, Plate etc)	MT	100				
SECTION-E5 A:SWITCHGEARS / MCC /PCC							I.5

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E5A.1	11 kV STATION SWITCHGEAR BOARD NO. OBA. Each Board consists of 15 Nos. panels. Approx. Overall dimension of each panel 820(W)x2692(H)x1831 to2651(D) mm, Panel shall be supplied in 8 loose shipping sections, Each shipping section weight approx. 3 MT.	set	1				
E5A.2	11 kV STATION SWITCHGEAR BOARD NO. OBB. Each Board consists of 14 Nos. panels. Approx. Overall dimension of each panel 820(W)x2692(H)x1831 to2651(D) mm, Panel shall be supplied in 8 loose shipping section, Each shipping section weight approx. 3 MT.	set	1				
E5A.3	6.6 kV Unit Switchgear Board # 8CA . Each board shall have 29 panels and supplied in 14 loose sections. Approx.Overall dimension of each panel is approx. 820(W)x2692(H)x1831 to2651(D) mm, Each shipping section weight is approximately 3 MT.	set	1				
E5A.4	6.6 kV Unit Switchgear Board # 8 CB. Each board shall have 29 panels and supplied in 14 loose sections.Approx. Overall dimension of each panel is approx. 820(W)x2692(H)x1831 to2651(D) mm, Each shipping section weight is approximately 3 MT.	set	1				
E5A.5	6.6 kV Station Switchgear Board # OCA . Each Board shall have 12 panels and supplied in 8 loose shipping sections. Approx.Overall dimension of each panel 820(W)x2692(H)x1831 to2651(D) mm, Each shipping section weight is approximately 3.00 MT.	set	1				
E5A.6	6.6 kV Station Switchgear Board # OCB. Each Board shall have 12 panels and supplied in 7 loose shipping sections. Approx.Overall dimension of each panel 820(W)x2692(H)x1831 to2651(D) mm, Each shipping section weight is approximately 3.00 MT.	set	1				
E5A.7	6.6 kV Station Switchgear Board # 9CA. Each Board shall have 29 panels and supplied in 14 loose shipping sections.Approx. Overall dimension of each panel 820(W)x2692(H)x2355(D) mm, Each shipping section weight is approximately 3.00 MT.	set	1				
E5A.8	6.6 kV Station Switchgear Board # 9CB. Each Board shall have 29 panels and supplied in 15 loose shipping sections.Approx. Overall dimension of each panel 820(W)x2692(H)x1831 to2651(D) mm, Each shipping section weight is approximately 3.00 MT.	set	1				
E5A.9	6.6 kV Station Switchgear Board # OCC (AHP) Board shall have 50 panels and supplied in 25 loose shipping sections.Approx. Overall dimension of each panel 820(W)x2692(H)x1831 to 2355(D) mm), Each shipping section weight is approximately 3.00 MT.	set	1				

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RATE SCHEDULE FOR MSPGCL Chandrapur, Unit-8&9, 2x500 MW, ELECTRICAL SYSTEMS

Handling at Storage Yard/ Stores, Transportation to Site, Calibration, Erection, Testing, Commissioning, Final Painting and Handing over of Electrical Works of MSPGCL Chandrapur, Unit-8&9 and their Auxiliaries etc.

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E5A.10	6.6 kV Station Switchgear Board # OCD Board shall have 44 panels and supplied in 22 loose shipping sections. Approx.Overall dimension of each panel 820(W)x2692(H)x1831 to 2355(D) mm, Each shipping section weight is approximately 3.00 MT.	set	1				
E5A.11	Earthing Truck (Feeder & Busbar) , Approx.Overall dimension of each truck- 750(W) X 1500(H) X 950(D), & Wt. 0.5 MT/Truck.	Nos.	20				
E5A.12	Soot Blower Motor control Center, double front, Approx overall dimension 16600(L)x2000(H)x900(W),approx WT 11.4 T, shall be supplied in eight to tan loose shipping sections	Nos	2				
E5A.13	LT main Switch Board, double front, Approx overall dimension 11100(L)x2450(H)x1700(W),approx WT 7.5T, shall be supplied in eight to tan loose shipping sections	Nos	8				
E5A.14	Auxiliary Control Panel, Approx Overall Dimension 12100X1700X2450 mm, approx Weight of each panel 10.5 MT and supplied in loose shipping sections	Nos	8				
SECTION-E5 B : STARTER PANEL/BOXES/POWER DISTRIBUTION BOX/MARSHALLING BOXES							I.5
E5B.1	Electronic Control Panel, Overall dimensions approx.600X550X2000mm, approx.Weight of each panel 0.3MT. BAPCON CONTROLLER approx .dimension280x210x210mm, rotary switches, etc along with cables and connectors, shall be supplied loose for mounting in the panel at site	Nos	144				
E5B.2	RAPPER CONTROL PANEL Overall dimension approx.1000X650X2000 mm, approx.Weight of each panel 0.30 MT. 32 Nos. RAPCON Electronic modules for each panel (along with cables connectors) size 280 x210x210 mm shall be supplied loose for mounting in the panel at site	Nos	16				
E5B.3	IOS PANEL overall dimension approx.1000x500x2050 mm,approx. Weight of panel 0.2 MT along with loose accessories such as IOS PC, Computer Furniture, Data Logger PC, Printer -4 Nos. PC termination box, peripheral cables etc.	set	2				

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RATE SCHEDULE FOR MSPGCL Chandrapur, Unit-8&9, 2x500 MW, ELECTRICAL SYSTEMS

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E5B.4	STATCON PANEL overall dimension approx.1000x650x2000 mm,approx. Weight of panel 0.3 MT STATCON CONTROLLER for each panel (along with cables connectors) size 280 x210x210 mm shall be supplied loose for mounting in the panel at site.	sets	8				
E5B.5	DC motor starter panels, etc (DC JOP, DC EOP, Seal oil panel), including resistance boxes. Approx weight 0.5 MT each.	Nos	10				
SECTION-E5C: DRY TRANSFORMER							1.5
E5C.1	Unit Service Transformer , 1600 KVA Dry type, Dyn1, AN cooled ,3 phase 6.6 / 0.433 kV with off load tap switch , including all loose accessories of transformer etc. as described in tender specification.	Nos	16				
SECTION-E5D: PENALS							1.5
E5D.1	Generator ,Generator Transformer ,UAT Transformer- Control ,protection & Metering panels .Approx dimension of each panel 1000x1000x2230(H),approx weight 600kg each panel	set	2				
E5D.2	Station Transformer - Control ,protection & Metering panels .Approx dimension of each panel 1000x1000x2230(H),approx weight 600kg each panel	set	2				
E5D.3	BTS Panel. Approx.Overall dimension of each panel - 750(W)x2300(H)x800(D) mm, weight of each panel is approximately 1.0 MT.	Nos.	4				
SECTION-E5E : DIGITAL AUTOMATIC VOLTAGE REGULATOR FOR BRUSHLESS EXCITAION							1.5
E.5E.1	Transportation from store / storage yard to erection site , Erection, Assembly, Testing & Commissioning of Digital Excitation Equipments / System , System consist of DAVR panels & accessories as per tender specification.	Set	2				
SECTION-E5F : VARIABLE FREQUENCY DRIVE SYSTEM FOR ID FANS							1.5
E5F.1	Transportation from stores / storage yards to erection site , erection , assembly , testing & commissioning of VARIABLE FREQUENCY DRIVE of ID FANS consist of Load Converter Inverter Panels,Adapter Panels,Control Panels. Reactors ,Transformers, Vacuum Breakers, flexible coupling and associated accessories, as per tender specification.	Set	4				
SECTION- E 5G: MISCELLANEOUS EQUIPMENTS							1.5
E5G.1	Ash Level Indicator comprising of level probe with extension lagging pipe, Electronic Unit, Interconnecting Cabling, Conduit, etc.	Set.	576				

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E5G.2	Opacity Monitor Consisting of Transmitter & Receiver, Electronic Unit, Air Blower unit, Weather Proof housings, Junction boxes, flexible hoses, mounting flanges with pipe for Transmitter, Receiver & Air blower, interconec-ted cables etc. for mounting on ESP outlet duct.	Set.	8				
SECTION-E 6 :EQUIPMENT EARTHING MATERIALS (ESP)							I.6
E6.1	75 x 10 mm GI earthing flat	Mtrs.	1000				
E6.2	50 x 6 mm GI earthing flat	Mtrs.	2900				
E6.3	30 X 5 mm GI earthing flat	Mtrs.	15000				
E6.4	GI earthing wire 8 SWG	Mtrs.	63400				
SECTION -E7A: LT BUS DUCTS							I.7
E7A.1	415 Volt LT Bus Duct(For ESP Boards only).Approx.length of each set of bus duct -6 Meter,Typical Cross section 1100x400,Weight 100 Kg/Mtrs approx.Loose items like silicagel Breather pipe,GI Channel Supports and associated accessories.	Sets	16				
SECTION -E7B: HT BUS DUCTS (SPBD)							I.7
E7B.1	6.6 kV, 2500 AMPS, SP Bus Duct from Unit Auxiliary Transformer (25 MVA - 9CAT01) to Switchgear Board # 9CA.(Approx length 44 m)	Set	1				
E7B.2	6.6 kV, 2500 AMPS, SP Bus Duct from Unit Auxiliary Transformer (25 MVA - 9CBT01) to Switchgear Board # 9CB.(Approx length 52 m)	Set	1				
E7B.3	6.6 kV, 2500 AMPS, SP Bus Duct from Unit Auxiliary Transformer (25 MVA - 8CAT01) to Switchgear Board # 8CA.(Approx length 96 m)	Set	1				
E7B.4	6.6 kV, 2500 AMPS, SP Bus Duct from Unit Auxiliary Transformer (25 MVA - 8CBT01) to Switchgear Board # 8CB.(Approx length 107 m)	Set	1				
E7B.5	6.6 kV, 3200 AMPS, SP Bus Duct from Station Transformer (400/11.5/6.9 KV,70 MVA, - 9A) to Switchgear Board # 0CA.(Approx length 51 m)	Set	1				

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E7B.6	11 kV, 2250 AMPS SP Bus Duct from Station Transformer (400/11.5/6.9 KV, 70 MVA - 9A) to Switchgear Board # 0BA.(Approx length 61 m)	Set	1				
E7B.7	6.6 kV, 3200 AMPS SP Bus Duct from Station Transformer (400/11.5/6.9 KV, 70 MVA - 9B) to Switchgear Board # 0CB.(Approx length 39 m)	Set	1				
E7B.8	11 kV, 2250 AMPS SP Bus Duct from Station Transformer (400/11.5/6.9 KV, 70 MVA - 9B) to Switchgear Board # 0BB.(Approx length 49 m)	Set	1				
E7B.9	6.6 kV, 2500 AMPS, Tie SP Bus Duct from Unit Switchgear Board # 9CA to SWSB # 0CA.(Approx length 22 m)	Set	1				
E7B.10	6.6 kV, 2500 AMPS, Tie SP Bus Duct from Unit Switchgear Board # 9CB to SWSB # 0CB.(Approx length 17 m)	Set	1				
E7B.11	6.6 kV, 3200 AMPS, Tie SP Bus Duct from Station Switchgear Board # 0CA to SWSB # 0CB.(Approx length 11 m)	Set	1				
E7B.12	11 kV, 2250 AMPS, Tie SP Bus Duct from Station Switchgear Board # 0BA to SWSB # 0BB.(Approx length 11 m)	Set	1				
E7B.13	6.6 kV, 2500 AMPS, Tie SP Bus Duct from Unit Switchgear Board # 8CA to SWSB # 0CA.(Approx length 10 m)	Set	1				
E7B.14	6.6 kV, 2500 AMPS, Tie SP Bus Duct from Unit Switchgear Board # 8CB to SWSB # 0CB.(Approx length 15 m)	Set	1				
SECTION -E7C:HT BUS DUCTS							I.7
E7C.1	Isolated Phase Bus Duct (21 KV) for interconnection of Generator Generator Transformers, UAT 1 and UAT 2 along with all accessories & auxiliaries as described in the Tender Specification.	set	2				
SECTION- E8 :OIL FILLED TRANSFORMERS(GT,ST,UAT)							I.8
E8.1	Single-phase 200 MVA, 21/420/ $\sqrt{3}$ KV, 1 PH OFF CKT+ - 10%, ONAN/ONAF/OFAF, Cooled Generator Transformer including all accessories, piping, cabling,one no.lighting Arrestors etc. as described in Tender Specification.	No	7				

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E8.2	25 MVA, 3-phase 21/6.9 kV Unit Auxiliary Transformer (UAT) including all accessories, piping, cabling etc as described in tender specification. Also including one Neutral Grounding Transformer (NGR) for each UAT.	No	4				
E8.3	80 MVA, 3-phase 400/11.5/6.9 kV Station Transformer (ST) , OLTC , ONAN/ONAF/OFAF including all accessories, piping, cabling etc as described in tender specification. Also including two nos Neutral Grounding Transformer (NGR)and 3 nos.lighting arrestors for each ST.	No	2				
SECTION-E 9 : ONLY TESTING & COMMISSIONING							1.9
E9.1	Heating elements for Hopper Heater of ESP Panel type	sets	288				
E9.2	Heating elements for Support Insulator Heater, Shaft Insulator Heaters of ESP	Nos.	720				
E9.3	High Voltage Rectifier Transformers (70 KV peak, 1200 mA) including oil filtration.	Nos.	144				
E9.4	Testing & Commissioning of Collecting, Emitting, GD Screen Motor	Nos.	304				
E9.5	Testing and commissioning of 6.6 &11KV HT motors including dryout.	Nos	45				
E9.6	Testing and commissioning of 415 V LT motors including dry out.	Nos.	350				
E9.7	Generator system testing	Set	2				
E9.8	Testing and Commissioning of soot blower control panel, including mounting of mimic ,	No	2				
E9.9	Testing & Commissioning of Wall, Long Retractable, Air Heater Soot Blower	No	516				
E9.10	Testing & Commissioning of Furnace temperature probe (including solenoids, thermocouple, etc)	No	4				

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E9.11	Thermostats including Calibration.	Nos.	304				
E9.12	Electrically (LT) Operated Valves, Dampers and Gates with Actuators, Limit Switches etc. (Regulating & ON/OFF Type).	Nos.	980				
SECTION-E 10 : Other Items							L.10
10.1	HT termination	Nos	250				
Grand Total in figures (In Rs)							
Grand Total in Words Rs.....							