#### TENDER SPECIFICATION

NO: BHE/PW/PUR/HZGG-CBL/747

**FOR** 

HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION, CHECKING OF CALIBRATION, TESTING, COMMISSIONING AND HANDING OVER OF CABLING WORKS FOR 1x 350 MW, GSEG, HAZIRA,

**AT** 

#### **GUJARAT STATE ENERGY GENERATION LIMITED**

NEAR HAZIRA, VILLAGE MORA

POST BHATHA, SURAT HAZIRA ROAD, DISTT.-SURAT, PIN: 394510 GUJARAT

**VOLUME-II - PRICE BID** 



#### **BHARAT HEAVY ELECTRICALS LIMITED**

(A Govt. of India Undertaking)

POWER SECTOR - WESTERN REGION

345, KINGS WAY - NAGPUR 440 001

#### BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

POWER SECTOR - WESTERN REGION

345, KINGS WAY - NAGPUR 440 001

NO: BHE/PW/PUR/ HZGG-CBL/747

FOR

HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION, CHECKING OF CALIBRATION, TESTING, COMMISSIONING AND HANDING OVER OF CABLING WORKS FOR 1x 350 MW, GSEG, HAZIRA

AT

#### **GUJARAT STATE ENERGY GENERATION LIMITED**

NEAR HAZIRA, VILLAGE MORA

POST BHATHA, SURAT HAZIRA ROAD, DISTT.-SURAT, PIN: 394510 GUJARAT

THESE TEMBER DOCOMENTS CONTAINING VOLUME-ITT NICE BID IS 1880ED TO.
M/s
(THESE TENDER DOCUMENTS ARE NOT TRANSFERABLE)
FOR BHARAT HEAVY ELECTRICALS LIMITED
AGM (PURCHASE)
AGIN (FUNGIAGE)
PLACE: NAGPUR
DATE:

THESE TENDED DOCUMENTS CONTAINING VOLUME II DDICE DID IS ISSUED TO

# BHARAT HEAVY ELECTRICALS LIMITED: PSWR: Nagpur T.S. No. BHE/PW/PUR/HZGG-CBL/747 VOLUME-II-PRICE BID (Page 1 of 7)

SN	DESCRIPTION	TOTAL QTY.	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	Applicable terms of payment
AA	Power & Control Cables (Laying, glanding, dressing, clamping, termination & testing etc.)					1.2.0
A1	HT Cable					
A1.1	1C x 630 sqmm, 11KV(UE) XLPE	450	Mtrs			
A1.2	1C x 500 sqmm -Al	1000	Mtrs			
A1.3	3C x185 sqmm - Al.	2000	Mtrs			
A2	LT POWER CABLE (Aluminium)					
A2.1	3c x10 sqmm - Al.	2000	Mtrs			
A2.2	3c x 25 sqmm -AI.	4000	Mtrs			
A2.3	3c x 50 sqmm -AI.	3000	Mtrs			
A2.4	3c x 95 sqmm -AI.	3000	Mtrs			
A2.5	3.5C x 25 sqmm -Al.	13000	Mtrs			
A2.6	3.5C x 50 sqmm -Al.	23000	Mtrs			
A2.7	3.5C x 95 sqmm -Al.	3000	Mtrs			
A2.8	3.5C x 185 sqmm -AI.	2000	Mtrs			
A2.9	1C x 25 sqmm -Al	4000	Mtrs			
A2.10	1C x 70 sqmm -Al	3000	Mtrs			
A2.11	1C x 120 sqmm -Al	1000	Mtrs			
A2.12	1C x 400 sqmm -Al	3000	Mtrs			
A2.13	1C x 630 sqmm -AI	44000	Mtrs			

# BHARAT HEAVY ELECTRICALS LIMITED: PSWR: Nagpur T.S. No. BHE/PW/PUR/HZGG-CBL/747 VOLUME-II-PRICE BID (Page 2 of 7)

SN	DESCRIPTION	TOTAL QTY.	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	Applicable terms of payment
A3	LT POWER CABLES (Copper)					
A3.1	2Cx2.5sqmm	14000	Mtrs			
A3.2	3Cx2.5sqmm	26000	Mtrs			
A3.3	1Cx25sqmm	3000	Mtrs			
A3.4	1Cx70sqmm	3000	Mtrs			
A3.5	1Cx630sqmm	1000	Mtrs			
A3.6	2C x 50 sqmm	1000	Mtrs			
A3.7	3Cx16sqmm	3000	Mtrs			
A3.8	3C X 35 sq. mm	4250	Mtrs			
A3.9	3C X 95 sq. mm	600	Mtrs			
A3.10	3C X 150 sq. mm	1500	Mtrs			
A3.11	3C X 240 sq. mm	1500	Mtrs			
A4	CONTROL CABLES (PVC FRLS)					
A4.1	24C X 2.5 SQ. MM	2000	Mtrs			
A4.2	19C X 2.5 SQ. MM	3000	Mtrs			
A4.3	12C X2.5 SQ. MM	2500	Mtrs			
A4.4	7C X 2.5 SQ MM	3000	Mtrs			
A4.5	3C X 2.5 SQ. MM	4000	Mtrs			
ВВ	CABLE TERMINATION KIT					I.10.4

# BHARAT HEAVY ELECTRICALS LIMITED: PSWR: Nagpur T.S. No. BHE/PW/PUR/HZGG-CBL/747 VOLUME-II-PRICE BID (Page 3 of 7)

SN	DESCRIPTION	TOTAL QTY.	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	Applicable terms of payment
B1	6.35/11 kV Indoor Termination Kits for 6.35/11 kV, XLPE insulated, Armoured, Aluminium cable					
B1.1	1C x 630 sq.mm	10	Nos.			
B1.2	1CX500 sq.mm	25	Nos.			
B1.3	3CX185 sq.mm	33	Nos.			
B2	Trefoil Clamps (Complete with fixing hardware's) for 6.35/11 kV, XLPE insulated armoured Al Cable					I.10.1
B.2.1	1C X 500 sq. mm	140	Nos.			
В3	Trefoil Clamps (Complete with fixing hardware's) for 1.1 kV, XLPE insulated armoured Al Cable					I.10.1
B.3.1	1C X 25 sq. mm	500	Nos.			
B.3.2	1C X 70 sq. mm	400	Nos.			
B.3.3	1C X 120 sq. mm	150	Nos.			
B.3.4	1C X 400 sq. mm	400	Nos.			
B.3.5	1C X 630 sq. mm	5200	Nos.			
CC	CABLE TRAYS (with coupler plates, fastners, clamps and fixing hardwares) AND ACCESSORIES					I.1.0
C1	600mm Ladder type tray	10000	Mtrs			
C2	450mm Ladder type tray	1000	Mtrs			
C3	300mm Ladder type tray	500	Mtrs			
C4	150mm Ladder type tray	1000	Mtrs			

# BHARAT HEAVY ELECTRICALS LIMITED: PSWR: Nagpur T.S. No. BHE/PW/PUR/HZGG-CBL/747 VOLUME-II-PRICE BID (Page 4 of 7)

SN	DESCRIPTION	TOTAL QTY.	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	Applicable terms of payment
DD	PRE FABRICATED CABLE TRAYS ACCESSORIES					I.1.0
D1	HORIZONTAL TEE/BEND WITH COUPLER PLATES FOR LADDER TYPE CABLE TRAYS					
D1.1	600mm Ladder Horizontal bend	60	Nos			
D1.2	450/300/150mm Ladder Horizontal bend	21	Nos			
D1.3	600mm Ladder tee	45	Nos			
D1.4	450/300/150mm Ladder tee	30	Nos			
D2	VERTICAL ELBOW -UP/DOWN WITH COUPLER PLATES FOR LADDER TYPE CABLE TRAYS					
D2.1	600mm Ladder Vertical Up/Down	30	Nos			
D2.2	450/300mm Ladder Vertical Up/Down	12	Nos			
D3	HORIZONTAL TEE/BEND WITH COUPLER PLATES FOR PERFORATED TYPE CABLE TRAYS					
D3.1	600/450/300/150mm Perforated Horizontal bend	30	Nos			
D3.2	600/450/300/150mm Perforated Horizontal tee	15	Nos			
D4	VERTICAL ELBOW -UP/DOWN WITH COUPLER PLATES FOR PERFORATED TYPE CABLE TRAYS					
D4.1	600/450/300mm Perforated Vertical Up/Down	15	Nos			
D5	HORIZONTAL CROSS WITH COUPLER PLATES FOR LADDER TYPE CABLE TRAYS					
D5.1	600/450/300/150mm Ladder type cross	25	Nos			

# BHARAT HEAVY ELECTRICALS LIMITED: PSWR: Nagpur T.S. No. BHE/PW/PUR/HZGG-CBL/747 VOLUME-II-PRICE BID (Page 5 of 7)

SN	DESCRIPTION	TOTAL QTY.	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	Applicable terms of payment
D6	HORIZONTAL CROSS WITH COUPLER PLATES FOR PERFORATED TYPE CABLE TRAYS					
D6.1	600mm Perforated type cross	10	Nos			
D6.2	450/300mm Perforated type cross	9	Nos			
D7	REDUCER WITH COUPLER PLATE					
D7.1	600-450/300mm Ladder type reducers	20	Nos			
D7.2	450-300mm Ladder type reducers	10	Nos			
D7.3	300-150mm Ladder type reducers	5	Nos			
D7.4	600-450/300mm Perforated type reducers	10	Nos			
D8	CLAMPS AND FITTINGS COMPLETE WITH REQUIRED HARDWARES(Anchor bolts, Spring nuts/ washers etc. as required for complete installation)					
D8.1	Double support channel	1000	Mtrs			
D8.2	Single support channel	7000	Mtrs			
D8.3	Canti lever arm (C/A) – 600 mm	13500	Nos			
D8.4	Canti lever arm (C/A) – 450 mm	1300	Nos			
D8.5	Canti lever arm (C/A) – 300 mm	700	Nos			
D8.6	Canti lever arm (C/A) – 150 mm	1500	Nos			
D8.7	90° angle fitting HL1	1000	Nos			
D8.8	Clamp for single channel CC1	600	Nos			
D8.9	Clamp for double channel CC2	2500	Nos			

# BHARAT HEAVY ELECTRICALS LIMITED: PSWR: Nagpur T.S. No. BHE/PW/PUR/HZGG-CBL/747 VOLUME-II-PRICE BID (Page 6 of 7)

SN	DESCRIPTION	TOTAL QTY.	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	Applicable terms of payment
D8.10	Base plate for single channel BP1	2500	Nos			
D8.11	Base plate for double channel BP2	600	Nos			
D8.12	Beam clamp BC1	800	Nos			
D8.13	Tray fixing clamp TC1	8000	Nos			
D8.14	Flat plate straight fitting PF2	1200	Nos			
D8.15	Flat plate tee fitting PF1	1000	Nos			
D8.16	90° angle fitting LA1	300	Nos			
EE	EARTHING MATERIALS (Civil works for earth pits included)					1.6.0
E1	65 x 10 GS Flat	12000	Mtrs			
E2	25 x 6 GS Flat	2500	Mtrs			
E3	25 x 3 GS Flat	2000	Mtrs			
E4	20 mm dia. 1000 mm long GS rod	80	Mtrs			
E5	8 SWG Solid GI wire	2000	Mtrs			
E6	Flexible braided conductor with tinned copper clamp connected by u bolt for fence gate earthing.	25	Mtrs			
FF	BELOW GROUND EARTHING (EARTH PITS / EARTHING ELECTRODES / ELCTRONIC EARTH PITS)(Material for					1.6.0
F1	40mm DIA, 3 mtrs long Earth Eelectrodes	114	nos			

# BHARAT HEAVY ELECTRICALS LIMITED: PSWR: Nagpur T.S. No. BHE/PW/PUR/HZGG-CBL/747 VOLUME-II-PRICE BID (Page 7 of 7)

SN	DESCRIPTION	TOTAL QTY.	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	Applicable terms of payment
F2	ELECT EARTH PIT ( for T/F, Generator Neutral Earthing) with 65 ID GI pipe, 3m long.	40	nos			
F3	Electronic earth pit with 65 ID GI pipe, 3m long for Electronic equipment earthing	10	nos			
F4	Earth pit with 65 ID GI pipe, 3m long for 220 KV Lightning Arrestor	6	nos			
F5	Test link for earth pit	16	nos			
GG	Structural steel fabrication & installation	25	MT			1.4.0
	ND TOTAL IN FIGURES (Rs) ND TOTAL IN WORDS (Rs)	1	1			