GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
Regd. Office: Sardar Patel Vidyut Bhavan, Race Course, VADODARA – 390 007.
(CIN: U40100GJ1999SGC036018)

Transmission Circle Office Surendranagar,
66KV Sub-Station Compound, Nr. Shiv Hotel, ST Station Road,
Surendranagar-363002
Email: setrsurendranagar.getco@gebmail.com
☏ No. 02752 – 223050 Web site: www.getcogujarat.com

Price Bid

(Submitted through n-Procure (n code) only)

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GUJARAT ENERGY TRANSMISSION CORPORATION LMITED

CONSTRUCTION DIVISION, LIMBDI

Surendranagar Circle

Name of Work : Work of Erection of Structures, Equipments, Earthing, Control Wiring, Yard Lighting, Control-Room & Electrification etc. 66/11kV Halvad - IV Sub-Station along with Erection of Pro. 66kv D/C LILO at Khetavav(Halvad-4) ss from Exi. 66kv Halvad(220KV)-Ganshyamgadh Line with ACSR_Panther Conductor on D/C Tower with Route Length of 0.3 Rkm.under Construction Division Limbdi under Surendranagar Circle.

SCHEDULE B-1 : Main Erection

SR. NO.	ITEM DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
1	**Erection of equipments** of any type / make with required all spares & accessories as per supplier's manual and FQP, including individual & interpole wiring of for all mentioned voltage class switchyard (as per respective technical specifications & relavant special conditions) suitable for all type of bus configurations. Scope includes the dragging / loading / unloading of same from site store to erection site. **c) Erection of breakers-66/22 KV (without crane permitted)**	Set of 3 pole	4	5535.00	22140.00
2	**Erection of CT/PT/CVT** on Erected structure including complete dragging/loading/unloading of same with crane only from site store to erection site and fixing of required clamps, connectors & accessories as per instruction of Engineer-in-charge **d) 66 kV CT / PT / CVT (without crane permitted)**	Per Phase	18	623.00	11214.00
3	**Erection of surge arrester with counter** on Erected structure including complete dragging/loading/unloading of same with crane only from site store to erection site and fixing of required clamps, connectors as per instruction of Engineer-in-charge. **d) 66 kV LA (without crane permitted)**	Per Phase	12	415.00	4980.00

4	**Erection of Double break isolator (All make) with earth blade** on its erected structure consisting of 3 base channels with solid core porcelain insulator including interconnected piping with operating mechanism and accessories with final adjustment for simultaneous mechanical & electrical operating for opening & closing. The rates are inclusive of dragging / loading /unloading of the same from site store to erection site as per instructions of Engineer-in-charge. **a) 66 kV Isolator (without crane)**	Set of 3 phase	2	3459.00	6918.00
5	**Erection of Double break isolator (All make) without earth blade** on its erected structure consisting of 3 base channels with solid core porcelain insulator including interconnected piping with operating mechanism and accessories with final adjustment for simultaneous mechanical & electrical operating for opening & closing. The rates are inclusive of dragging / loading /unloading of the same from site store to erection site as per instructions of Engineer-in-charge. **a) 66 kV Isolator (without crane)**	Set of 3 phase	7	2491.00	17437.00
6	**Erection of Solid core porcelain/ composite polymer Bus post insulator** on its erected structure complete, fixing of accessories and shifting of same including loading /unloading from its site store to erection site. **d) 66 kV**	Per No	7	277.00	1939.00
7	**Laying of any size of 11/22kV XLPE cable including excavation of trench 300 mm wide & 600 mm deep** including laying and filling up sand of 100 mm layer from bottom & bricks on three side of cable & refilling the trench with murram/soil & ramming etc. Required bricks, sand, power cable marker/ C.I. /G.I. plate etc. will have to be supplied by the contractor. Rates are inclusive of shifting of cable drum to the site from S/S site store. Drum should be handled only by jacking to avoid damage to cables.	Mtr.	250	138.00	34500.00
8	**Laying of any size of 11/22kV XLPE cable in ready made cable trench or in open space.** Rates are inclusive of shifting of cable drum to the site from S/S site store. Drum should be handled only by jacking to avoid damage to cables.	Mtr.	600	63.00	37800.00

9	**Erection of S/S & Equipment structure** including punching of nut bolts. Rates are inclusive of shifting of same up to erection site from its s/s Store. **a) 66 kV**	MT	25	2491.00	62275.00
10	**Erection of 66/22kV or 66/11kV Class power transformer** with complete mounting of all the accessories i.e bushings, radiators, conservator tank etc. as per OEM approved drawing including laying of cable between all accessories mounted on the transformer / marshalling KIOSK. Filling and filtration of oil with filter machine as per direction of Engineer-in-charge, manufacturer engineer or as per instruction manual of the equipment. All necessary toold tackles, required filter machine, Hydralic Jack, Vacuum pump etc. required for transformer erection shall be provided by the contractor. Filteration of oil will be in scope of the contractor for the transformer.				
	(i) 5 MVA	No.	0	12452.00	0.00
	(ii) 10 MVA	No.	0	20754.00	0.00
	(iii) 15 MVA	No.	2	24905.00	49810.00
	(iv) 20 MVA	No.	0	31754.00	0.00
11	**Stringing of Bus** complete in all respect with fixing of all fittings, insulators sag compensating plate/spring and all accessories as per the instruction of Engineer –In-Charge. **c) Single Moose / AL-59 / Zebra conductor**	Rmt./ Phase	160	63.00	10080.00
12	**Preparing and fixing of required length of jumpers** in the switchyard on respective Bus & equipments, tensioning & dressing of jumpers complete as per instructions of Engineer –in – charge. **c) Single Moose / AL-59 / Zebra / Panther conductor**	Rmt/Per Phase	320	16.00	5120.00

13	**Installation of earthing strips / MS round bar in any kind of soil except Rocky(HR/SR) Soil as per earthing philosophy of GETCO** Earthing Grid: 1) Including digging of 600mm depth and 450mm wide trench. 2) Cutting, bending, laying and fixing of Earthing grid conductor. 3) 75x10mm / 50x6mm GI strips: Fixing of two bolt at each straight joints and lap welding, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints. 4) 25/32/36/40MM dia MS Rod: Lap welding at each straight & cross joints, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints. 5) Including supply of red oxide paint, black powder, HDGI Nuts & bolts as per specification. 6) Back filling of the trench with yellow/ Normal soil. Structure & Equipment earthing: 1) Including digging of 600mm depth and 450mm wide trench. 2) Cutting, bending as per required shape, laying and fixing of risers from Grid to structures and Equipments. 3) Lap welding, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints including supply of HDGI Nuts & bolts for all connections including suporting to structures etc as per specification. 4) Back filling of the trench with yellow/ Normal soil.				
	a) 75 x 10 mm GI strip / MS round bar (25 to 40 mm)	Mtr.	0	52.00	0.00
	b) 50 x 6 mm GI strip / MS round bay up to and including 25mm	Mtr.	1500	43.00	64500.00

14	**Installation of earthing strips / MS round bar in Rocky(HR/SR) Soil as per earthing philosophy of GETCO**Earthing Grid:1) Including digging of 600mm depth and 450mm wide trench.2) Cutting, bending, laying and fixing of Earthing grid conductor.3) 75x10mm / 50x6mm GI strips: Fixing of two bolt at each straight joints and lap welding, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints.4) 25/32/36/40MM dia MS Rod: Lap welding at each straight & cross joints, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints.5) Including supply of red oxide paint, black powder, HDGI Nuts & bolts as per specification.6) Back filling of the trench with yellow/ Normal soil.Structure & Equipment earthing: 1) Including digging of 600mm depth and 450mm wide trench.2) Cutting, bending as per required shape, laying and fixing of risers from Grid to structures and Equipments.3) Lap welding, removing oxide films formed during welding, applying two coats of red oxide and black powder after welding and applying zinc rich paint on welded joints including supply of HDGI Nuts & bolts for all connections including suporting to structures etc as per specification.4) Back filling of the trench with yellow/ No.rmal soil.				
	a) 75 x 10 mm GI strip / MS round bar (25 to 40 mm)	Mtr.	0	174.00	0.00
	b) 50 x 6 mm GI strip / MS round bay up to and including 25mm	Mtr.	2800	164.00	459200.00

15	Providing Bore type earthing with drilling of minimum 200mm dia bore upto following mentioned depth in Rocky (HR/SR) Soil as per earthing philosophy of GETCO. 1) Work includes inserting 20/25mm dia MS Rod (for 66kV S/S) / 40 mm dia MS Rod (for EHV S/S) in bore depth and to be connected to the earthing grid at junction point by proper welding at both end. 2) This includes cutting, fabrication & welding of flat. 3) Refilling and compression of surrounding areas with No.rmal/yellow soil, ground enhancement material etc. wherever applicable as per approved Soil strata and earthing design calculation. 4) Required G.I. Earthing strip/ MS rods will be supplied by GETCO Free of Cost. 5) Earthing material like Normal/yellow soil, ground enhancement material (0.5CMT/Meter depth), water, etc. shall be supplied by contractor.				
	(a) 18 Mtr Depth	No	0	5229.00	0.00
	(b) 15 Mtr Depth	No	0	4358.00	0.00
	(c) 12 Mtr Depth	No	0	3486.00	0.00
	(d) 9 Mtr Depth	No	0	2615.00	0.00
	(e) 6 Mtr Depth	No	0	1743.00	0.00
	(f) 3 Mtr Depth	No	40	871.00	34840.00
16	**(a) Supply,Installation,Testing and commissioning of maintenance free treated earth electrodes suitable for NORMAL SOIL as per drawing No. GETCO/E/STD/P-021 (1 OF 2) R3 dated 29-05-2020** and technical specifications GETCO/E/TS-Maintenance free earth pits/R1 dated 04-06-15 for 66/11 kV substations with ground enhancement material/ back fill / grounding compound as per IEEE 80-2000 Clause 14.5 (d) and as per part-7 of IEC-62561 Using Copper bonded earth electrode (with 250 micron copper coating) having 24 mm dia (min) and 3000 mm length which shall be capable of handling STC of 25 KA-1 sec. Work also includes Providing BB masonary inspection chamber(manhole) incl. light type CI cover.	No	0	13893.00	0.00

17	**(b) Supply, installation, Testing and commissioning of Maintenance Free Treated Earth Electrodes suitable for ROCKY Soil as per drawing no. GETCO/E/STD/P-021 (2 OF 2) R3 dated 29-05-2020.** and technical specifications GETCO/E/TS-Maintenance free earth pits/R1 dated 04.06.15 for 66/11KV substations with ground enhancement material/back fill/grounding compound as per IEEE 80-2000 clause 14.5 (d) and as per part-7 of IEC-62561 using copper bonded earth electrode (with 250 micron copper coating) having 24 mm dia (min) and 3000 mm length which shall be capable of handling STC of 25 KA -1 sec. work also includes providing BB masonary inspection chamber (Manhole) incl. light type CI cover.	No	41	14844.00	608604.00
18	**Installation of 20/32/40 mm dia., 3 mtr. Long vertical spike for mesh type earthing in Normal soil.**	No	0	158.00	0.00
19	**Fabrication for erection of any Equipment/Structure/panel** or anywhere in s/s & F.B. at other endas per Inst. Of E.I.C.	L.S. (Max.)	1	4992.00	4992.00
20	**Erection of support structure for 11kV Power cable termination at 11kV bushing for 10/15/20MVA power transformer as per Drawing No.:- GETCO/E/06S-STD/11kV STR-A2-02.** 1) Material for supporting structure will be supplied free of cost by GETCO. 2) Necessary wooden clamps with required nut-bolt-washers & HDPE rubber piece for packing etc. as per drawing shall be supplied by the contractor. 3) Job also includes miNo.r fabrication if required as per instruction of EIC.	No	2	998.00	1996.00
21	**Erection of support structure for station transformer as per GETCO Drawing No.:- GETCO/E/06S-STD/11kV STR A3-03.** 1) Necessary wooden clamps with required nut-bolt-washers & HDPE rubber piece for packing etc as per drawing shall be supplied by the contractor. 2) Job also include erection of required 11kV LA, D.O. Fuse and any miNo.r fabrication if required as per instruction of EIC. 3) Material for supporting structures, DO Fuse and 11kV LA will be supplied by GETCO Free of Cost.	No	1	2196.00	2196.00

22	**Providing & fixing Set of following Items on erected 11kV support structure system for power cable of 66/11kV Transformer as per GETCO drawing No..GETCO/E/06S-STD/SPL-028A, R3, DT-26.10.2016 and instruction of EIC.** 1) Allu. alloy bus bar of size 120X20X2000 mm with heat shrinkable anti tracking tubing : 03 Nos. 2) 11kV SRI of PCD 127 mm - 12 No. 4) Copper laminated fusion welded flexible jumper of size 75 X 10 X 600 mm having 2000 Amp capacity : 03 No. (4) Bi Metalic Plate (Al/Cu): 03 No. (5) 11kV Heat Shrinkable anti tracking Sleeve on Al Bus bar of all three Phase: 06 mtrs (6) Including required GI/SS nut-bolt and washer of good Quality for fitting support structure. (7) All live parts shall be coverd with heat shrinkable MV insulated tape/ sleeve.	Set	2	27303.00	54606.00
23	**Erection of 11kV D.P. Structure as per GETCO Drawing No.: GETCO/E/06S-STD/11 kV STR- A1-01.** 1) Job includes erection of 11kV A/B Switches, 11kV PI, jumpering between 11kV cable to 11kV bus, etc. on erected structure. 2) Material for DP structure, AB switches, PI and conductor for jumpers will be supplied free of cost by GETCO. 3) Necessary wooden clamps with required nut-bolt-washers & HDPE rubber piece for packing etc. to hold 11kV power cable as per drawing shall be supplied by the contractor. 4) Job also includes miNo.r fabrication if rquired as per instruction of EIC.	No	5	2196.00	10980.00
24	**Erection of 11kV D.P. Structure as per GETCO Drawing No.: GETCO/E/06S-STD/11 kV STR- A4-04.** 1) Job includes erection of 11kV A/B Switches, 11kV LA, jumpering between 11kV cable to 11kV bus, etc. on erected structure. 2) Material for DP structure, AB switches, PI and conductor for jumpers will be supplied free of cost by GETCO. 3) Necessary wooden clamps with required nut-bolt-washers & HDPE rubber piece for packing etc. to hold 11kV power cable as per drawing shall be supplied by the contractor.	No	5	2196.00	10980.00

	4) Job also includes miNo.r fabrication if rquired as per instruction of EIC.				
25	**Stringing of Single ACSR Dog bus between 11kV D.P. Structure (A1) to cross boundry structure (A4) in all respect.**1) Job includes fixing of all fittings and accessories on erected DP structures.2) Single tension hardware suitable for ACSR Dog Cond.- 6 set shall be supplied by the contractor. 3) Necessary ACSR DOG conductor, 11kV Insulators will be supplied by GETCO free of cost.	Set of 3 phase	5	4786.00	23930.00
26	**Providing of M15 Grade Concrete for various equipment structure**, Guy, 11kV DP, M.K. Box, Neutral channels, cable support channel, grouting of Pole/ Flood light structure with cement, sand & metal in proportion of 1:2:4 respectively. 1) Work includes muffing with smooth cement mortar (1:6) finish. 2) Necessary sand, metal, water & cement shall be supplied by the contractor.	Cmt	5	5276.00	26380.00
27	**Excavation in Hard Rock** for excavation of Earthing Pits / 11kV or LT power cable trenchs/ Yard Light Poles only.	Cmt	3	525.00	1575.00
28	**Loading, Transporting & Unloading of all material** for 66 kV substation like Structure, indoor & out door Equipments, DP Structure, earthing materials, Battery set, fire wedge, GI/MS scrap, all other required materials, etc. in all respect for Substation & oposite end feeder bay from Store (Any store either const. div. or R & M store within respective Zone) to Sub Station Site. This job also includes crediting balance materials at respective construction division store at No. extra cost.	Job	1	51720.00	51720.00
29	**Supply & laying of 1 Core X 25mm2,** armroured Copper Cable, multi-strand flexible of approved make ISI marked in ready made trench and/or PVC pipe **from Battery Charger to Battery Set** including termination at both side as per inst. of EIC.	Mtr	45	199.00	8955.00

30	**Providing and Fixing of various type of sign Board, sticker, Big Sign Board, earthing pit board, earthing pit Board & Single line diagram etc as per instruction of EIC. Sticker of red, white, black Letters are to be utilised for various sign board.** A. Earthing Pit Board Size:- 6" x 6" - **40 Nos.** B. Safety Slogan Board, Hard Sheet board size 2' x 2'and 4mm thick (Gujarati Language) - **2 Nos.** C. Safety Slogan Board, Hard Sheet board size 3' x 2'and 4mm thick (Gujarati Language) with red and Yellow colour.- **03 Nos.** D. Single line diagram size 5' x 3' Digital with Alluminium frame with fitting and as per approved diagram given by EIC.- **01 No.** E. Big sign board size 5' x 4' and 2mm thickness indicating sub station name digital with S.S. rod with hole & as per approved symbol with fitting charge - **01 No**. F. Switch yard sign Board 12" X 6" with 2 mm Thickness black & white Gujarati language - **25 Nos.** G. Safety Slogen Board size 2" x 6" in side control room.- **05 Nos.** H. Various type of control room equipment sticker size-24 cms x 5cms.--**18 Nos.** I. Prohibition Board: size - 5' x 3' with 2mm thick MS Sheet on MS square pipe/ angle frame with hole and fitting charge.- **01 No.** J. Maintenance Chart Board: size - 5' x 3' Digital with Alluminium frame with fitting and as per detail given by IEC. - **01 No.** K. Zero Accident Board: Size - 2' x 3' Digital with Alluminium frame with fitting and as per detail given by IEC. - **01 No.** L. Safety picture board size :- 3' x 3' (Laminated for O/D use) - **03 Nos.** M. Name plate board of transformer size :- 2' x 1'- **04 Nos.** N. Cable marker size:- 6" x 6", Radium, fixed on 750mm long M.S.Rod for fixing arrengement.- **30 Nos.**	Job	1	24957.00	24957.00
31	**Providing and fixing of Radium sticker for outdoor and Indoor Equipment** Identification like LA, Isolator, Circuit Breaker, Transformer, CT, PT, MK Box, C&R Panels, 11kV Panel borad etc	Sq.lnch	1500	2.00	3000.00

32	**Providing and Fixing of fire stand made from 75mm dia Gl pipe A class ISI mark heavy duty having 5ft width and 4ft height as per inst of Engr. In charge** 1) Work includes cutting, drilling, welding of pipe as required. Fabrication and supply of 16mm dia meter hook size required for hanging the buckets.2) 4 Nos.of fire buckets are to be provided by the contractor.3) Fire stand should grouted with excavation of pit size 300mm x 300mm-2 Nos. of 600mm depth with 1:3:6 mix muffing 300mm in height including leveling of stand. 4) The fire stand is to be painted with post box red colour of approval quality as per instruction of EIC. 5) All required approved material including cement, sand, metal etc are to be provided by contractor.	Job	1	4992.00	4992.00
33	**Providing, Fabrication and erection of VHF set entena** support pipe on control room by providing 25mm dia. GI pipe of length 20 feet including providing & fixing of 4 Nos. of guy of GI wire 10 SWG. This job includes painting of GI pipe by good quality paint white and red alterlatively	Job	0	1498.00	0.00
34	**Labour charge for fixing of 11kV XLPE Indoor/Outdoor cable kit of any make for 11kV**, 3C x 95 sqmm to 300 sq.mm XLPE power cable. Cable kit will be provided by GETCO.	No	24	748.00	17952.00
35	**Providing & Fixing of RAYCEM/MSEAL/CABSEAL or equivalent GETCO approved make heat shrinkable type 11kV XLPE Indoor/Outdoor cable Termination kit** suitable for 11kV, 3C x 95 sqmm to 300 sq.mm XLPE power cable.	No	12	6139.00	73668.00
36	**Providing & Fixing of Aquaguard Total Reviva Water R.O. Plant** including Commissioning & Testing and also with required peripherals for installation of plant as per site condition (1) Dimension: 320 X 275 X 410 mm (2) Weight : 8 KG (3) Water flow : 8 to 12 LPH (4) Input power : 230V AC (5) RO membrence : TFC spiral You have to provide guarantee for the 12 month from the installation.	No	1	6889.00	6889.00

37	**Providing and fixing of ISI mark Rubber Matting sheet Suitable for 11kV Class As per following specification.** Reference IS:15652-2006 with latest amendment. Suitable for Voltage Class :B Max Use Voltage : 11kV AC proof voltage : 22kV Dielectric strength : 45kV Leakage current : < 10 micro ampere Colur RED/BLUE Make : Vardhman or equivelent (Rubberhouse India) Width :1 mtr. Thickness :2.5 mm. Surface :Chequred on one side and other side plain. NOTE: Contractor has to supply Rubber Matting sheet as per IS:15652-2006 with latest amendment specification and shall submit test certificate for routine test as per relevant IS	sq.mtr	18	4492.00	80856.00
38	**Providing & fixing of reputed make ISI mark Fire Extingusher**.with latest ammendment Dry chemical powder 9 kg Capacity. Note: Contractor shall submit Test certificate for routine test as per relevant IS.				
39	a) Chemical powder 9 kg	No	2	6301.00	12602.00
40	b) CO2 type - 6.5Kg	No	2	7047.00	14094.00
41	c) CO2 type - 22.5Kg	No	2	17817.00	35634.00
42	d) Mechanical foam type - 50Ltr	No	1	14499.00	14499.00
43	**Providing & fixing of all weather proof, cold rolled steel sheet floor mounted fixed type single door grey color Main AC Dist box having size 900x600x250 MM with door closing arrangement and necessary rubber gasket.**Contractor has to supply following materials with box along with necessary mounting and wiring.(1) L&T/Anchor/Havells Make 100A,4P MCCB - 1 No.(2) L&T/Anchor/Havells Make 63A,4P MCB - 2 Nos.(3) 100 A Copper Bus-Bar Link - length 6 inch size & 25 x 3 MM - 4 Nos.(4) Tinned Earth Bus 25 x 3 MM Length - 32 Inch - 1No.(5) 25 & 16 sqmm Cu. flexible cable - 4 & 8 Meter respectively.(6) Required Nos. of Cu. Lugs , etc. as per instruction of EIC.	No	1	20650.00	20650.00

44	**Providing & fixing of all weather proof, cold rolled sheet steel Yard AC Dist box having** (1) one No 63A,4P MCB as main I/C (2) 09 Nos of 32A, 4P, MCB as O/G feeders (3) 6 Nos of 32A, DP, MCB as O/G feeders **(4) 1No - 63Amp TPN ELCB** as per drawing enclosed. All MCB are Only Following Any one Make L&T/ANCHOR/MDS /HAVELLS.	No	1	24250.00	24250.00
45	**Erection of control panel relay panel or C/R panel or RTCC panel** including grouting of panel, jointing with adjoining panels including required fabrication for entry of control cables and complete vermin proofing. Job includes supply of required bolts, nuts etc. and shifting of panel from S/S site store to work site. **d) 66 KV**	Per No.	5	691.00	3455.00
46	**Erection of 11KV CB panel of any make** including grouting, jointing with adjoining panels & horizontal , vertical levelling including required fabrication in control panel or required stone cutting in flooring for entry of power cable, control cable, including interpanel wiring and complete vermin proofing. Job includes supply of required bolts, nuts etc. and shifting of panel from S/S site store to work site.	Per No.	10	2076.00	20760.00
47	**-DO- but for L.T. panel board** including fixing of all switches, bus bars etc.	Per No.	1	968.00	968.00
48	**Erection of battery charger of any make** as per manufacture 's instruction manual including grouting , vermin proofing	Per No.	1	968.00	968.00
49	**Erection of 100 AH / 250 AH DC battery set** on wooden stand as per instruction manual of supplier including first filling of battery solution, proper connection of cells and applying charging /discharging cycles as per manufacturer's / instruction of engineer in charge. **b) 100 AH, 250 AH , 110 V**	Per Set.	1	6227.00	6227.00
50	**Erection of station transformer of 22 KV or 11 KV / 430 V on its plinth** , grouting of foundation bolts, fixing of channels, danger board etc. including connection with power cable LV cable terminations including shifting from S/S site store to plinth as per the instruction of engineer in charge.	Per No	1	2214.00	2214.00
				Sub-Total 1 (Schedule - B-1)	**1998302.00**

SCHEDULE B-2 : Control Wiring

SR. NO.	ITEM DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
51	**Laying of 1.1 KV PVC armored copper/ aluminum cable inside Hume pipe/cable trench** including binding/clamping of cable with Gl wire as per requirement including supply and fixing of identification tags on both ends and at distance every 10 mtr for following size. **a) 2C × 2.5 mm2 ,2 C × 3.5 mm2 , 4C x 2.5 mm2, 7C × 2.5 mm2, 4C x 4 mm2 Copper control cable or any equivalent size of all LT cable.**	Per Mtr.	2500	6.00	15000.00
52	**Laying of 1.1 KV PVC armored copper/ aluminum cable inside Hume pipe/cable trench** including binding/clamping of cable with Gl wire as per requirement including supply and fixing of identification tags on both ends and at distance every 10 mtr for following size. **b) 12C x 2.5 mm, 12C x 4 mm2, 12C x 6 mm2, 19C x 2.5 mm2, 27C x 2.5 mm2, Copper control cable, 3.5 C or 4 C x 10 mm2, 70 mm2 aluminum armored or unarmored LT power cable.**	Per Mtr.	2000	10.00	20000.00
53	**Laying of 1.1 KV PVC armored copper /aluminum cable in ground by digging trench** of suitable width and 450 mm depth in any type of soil including supply and fixing of identification tag on both end and at distance every 10 mtr for following size **a) 2C x 2.5mm2, 2C x 3.5 mm2, 4C x 2.5mm2, 7C x 2.5mm2, 4C x 4mm2 copper control cable or any equivalent size of all L.T. cable.**	Per Mtr.	250	21.00	5250.00
54	**Laying of 1.1 KV PVC armoured copper / alluminium cable in ground by digging trench** of suitable width and 450mm depth in any type of soil including supply and fixing of identification tag on both end and at distance every 100 mtrs for following size. **b) 12C x 2.5mm², 12C x 4mm², 12C x 6mm², 19C x 2.5mm², 27C x 2.5mm² copper control cable, 3.5C or 4C x 10mm² to 70mm² alluminium around or unaround L.T. power cable.**	Per Mtr.	225	26.00	5850.00

55	**Preparing of complete schedule of wiring for line/ transformer bay for 66KV bays** in triplicate. necessary drawing will be provided by the GETCO. Schedule should be approved by EE. or DE in charge/Testing/SMS.**Line 01 Bay & PT 1 Bay = 01 NoLine 02 Bay & PT 2 Bay = 01 No TR 01 Bay & 11 KV Panel = 01 NoTR 02 Bay & Remote Wiring = 01 No**	Bay	4	1996.00	7984.00
56	**Providing and fixing 'B' class G.I. pipes** of following size for cable protection including fixing with the structures.(Non SOR) including required 'L' & 'T' band,coupling for CT,PT, Transformer, M.K.Box cabling on structure including required fabrication. **a) 40mm dia (weight of pipe-3.2kg/meter)**	Mtr	100	255.00	25500.00
57	**Providing and fixing 'B' class G.I. pipes** of following size for cable protection including fixing with the structures.(Non SOR) including required 'L' & 'T' band,coupling for CT,PT, Transformer, M.K.Box cabling on structure including required fabrication. **b) 50mm dia (weight of pipe-5.1kg/meter)**	Mtr	50	284.00	14200.00
58	**Termination of Control Cable at Panel / M.K./ Equipments** including supply of required size of double compression type metal glands, lugs, ferrules, PVC Binding Tape, Buttons, Cable ties, etc. for following size of cables. **a) Up to 7 Core Control Cable.**	End	200	199.00	39800.00
59	T**ermination of Control Cable at Panel / M.K./ Equipments** including supply of required size of double compression type metal glands, lugs, ferrules, PVC Binding Tape, Buttons, Cable ties, etc. for following size of cables. **b) As above but for Above 7 Core Control Cable.**	End	100	349.00	34900.00
60	**Providing & installation and commissioning of remote control switch board** for ON/OFF control of all 11kv panel at operator table with supply of good quality metal sheet box (18 SWG) size 450 x 450 x 125 mm with door, 20 nos standard ISI make and rating industrial push botton, indication lamp(LED), terminal connectors fixed on c-type channel, etc. with installing accept/reset arrangement with required ISI marked copper flexible wire size 2.5 Sq. mm including complete wiring in PVC pipe and fixing on wall as per inst. of	Job	1	6489.00	6489.00

	EIC.only 19/27 core x 2.5 sqmm cable supply by GETCO.				
61	**Providing and fixing of all weather proof, cold rolled sheet steel junction box for CVT & PT, CT** terminations with 30 Nos. of disconnecting type, 'Elmex' make CATDM 4 or equivalent type connectors and required no of fuses, links etc.as per instruction of Engineer-in-charge, as per approved schedule of cable. **In each PT JB HRC Fuses (16 Nos) and Disconnecting Link & require connectors to be provided & wiring to be carry out for PT selection etc as per inst of EIC.**	No	6	21549.00	129294.00
62	**Providing & Fixing of Finolex brand or equivalent rigid 4KG/Cm2 PVC pipe for cable protection** in free space beyond cable trench up to foundation top including making hole in cable trench with necessary finishing after provision of pipe incuding necessry fittings like bends, shoe, cowl etc & fixing the pipe to the wall in plumb ny fixing of G.I clamps of 18 gauge sheet with 1 to 1.5 mtr distance & execavation up to 450mm depth & refilling the trenches in any type of soil, filling the joits with approved solution complate as directed of E.I.C **b) 165mm dia O.D PVC Pipe**	Mtr	80	415.00	33200.00
				Sub-Total 2 (Schedule - B-2)	**337467.00**

SCHEDULE B - 3 : Yard Lighting

SR. NO.	ITEM DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
63	**Providing & fixing of all weather proof, cold rolled sheet steel AC Panel - 2 for Yard-Light AC supply having**(1) 63A 4P MCB : 01 No.(2) MCX-12A contactor : 01 No.(3) Digital Timer : 01 No.(4) 20A TPN MCB : 06 Nos(5) Indication lamp " 03 Nos(6) Push Butten : 02 Nos(7) Terminal Connector as per site requiermentand other detail as per drawing enclosed including grouting & Necessary fabrication of GI Angle or fixing on GI Structure, including earthing with main grid as per instruction of EIC.	No	1	24732.00	24732.00

64	**Supplying & laying of following size Control/ L.T. power cable** in readymade cable trench or by excavating in any type of soil cable trench size 300mm wide 600mm depth and refilling the same as per the direction of EIC. Item Includes the cable laying upto termination box with clamps & proper clamping of cable on gantries by GI pipe & glands as per direction. Item includes providing & supply of bircks, sand as per requirement. The L.T power cable to be provided by contractor as under :As per ISI 1554 (Part-I). **3.5 Core x 50 mm2 Alluminium cable -Armoured, from distribution X'mer to Main Distribution Board near dist. X'mer and from MDB to indoor LT panel board (LTPB) - both 2 runs.**	Mtr	150	292.00	43800.00
65	**Supplying & laying of following size Control/L.T power cable** of FINOLEX or equivalent ISI make in readymade cable trench or by excavating in any type of soil cable trench size 300mm wide and 600mm depth and refilling the same as per the direction of EIC. Item Includes the cable laying up to termination box with clamps & proper clamping of cable on gantries by GI pipe & glands as per direction. Item includes providing & fixing of bricks, sand as per requirement to protect cables . The L.T power cable to be provided by contractor as under :As per ISI 1554 (Part-I). **4 Core x 25 mm2 Aluminum cable - Armored, from LT panel board (LTPB) to Yard Light AC MK (AC Panel-2)., AC Panel 1 in C.R. and yard AC Box**	Mtr	150	175.00	26250.00
66	**- - do - - 4C x 4mm2 Copper cable - Armoured, from yard-light AC MK (AC panel-2) to all yard-light fixture junction boxes on LM & street light light pole & Station transformer to Colony & LT panel to watchman cabin.** Note: Cable Laying work either in ready made cable Trench or by excvating in any type of soil if required.(Only laying. Cable will be supplied by GETCO)	Mtr	600	19.00	11400.00
67	**- - do - - 4C x 2.5mm2 Copper cable - Armoured, from yard-light AC MK (AC panel-2) to all junction boxes on post top lantern.** Note: Cable Laying work either in ready made cable Trench or by excvating in any type of soil if required.(Only laying. Cable will be supplied by GETCO)	Mtr	200	19.00	3800.00

68	**Providing & fixing of 'B' class ISI marked GI. Pipe of 32/40mm dia** for cable looping & road crossing with necessary elbow/ bend for each pole & J.Box for yard lighting & for control-room flood light wiring work with fixing on wall with shadles if required as per inst. Of EIC.	Mtr	50	180.00	9000.00
69	**Providing & erection of 7.0 Mtr. long swaged type welded GI tubular street light pole** on the foundation in any type of soil as per inst. of E.I.C. confirming to relevent IS and as per atached Drawing No. GETCO/E/STD/LTG.POLE -R2, DT-24-12-2019	No	6	9983.00	59898.00
70	**Providing & erection of 4.5 Mtr. long swaged type welded GI tubular post top lantern pole** on the foundation in any type of soil as per inst. of E.I.C. confirming to relevent IS and as per atached Drawing No. GETCO/E/STD/LTG.POLE -R2, DT-24-12-2019	No	4	6988.00	27952.00
71	**Supply and fixing of Pole/Wall/Structure mounted FRP junction box** of any standard reputed make of required size with clamp, providing 1 SPN MCB, of 16 A having short ckt breaking capacity of 10kA peak of standard ISI make like L&T/ANCHOR/MDS /HAVELLS & 2 Nos. of stud type connector of standard make like Connectwell. The cable glands & lugs are also included for both incoming & out going cables Amp. of standard make like MDS/HAVELLS.	No	30	748.00	22440.00
72	**Earthing to tubular pole/luminaries,by coil type earthing at 10 SWG,** GI wire in earth pit of 1.5 mtr. Depth in any type of solil by using salt/ coke (charcole) 16 kgs each & remaining filling with yellow/ Normal soil & clamping the earth wire with pole & Junction box.	No	10	400.00	4000.00
73	**Providing and fixing of 1 x 250-Watt LED luminaries - Energy Efficient flood light** with complete allied accessories having features like powder coated, aluminium housing, heat resistant toughened glass provided with gasket (Philips/CGL/Bajaj/GE/Osram/Wipro or equivalent make). Luminaries to be fixed on swaged pole / GI structure by providing required fabrications & 4 core 2.5 sqmm double insulated flexible stranded wire should be used from fittings to approved SMC type junction box as per inst. of E.I.C.	No	16	11576.00	185216.00

74	**Providing & Fixing of LED Street Light Fixtures (1X120W)** (CGL Cat No. LSTO120/CDL 120W or equivalent under Cat-II or above as per R&B SOR), 4-core 2.5mm2 double insulated flexible strended wire should be used from control gear fittings to approved SMC type junction box as per inst. of E.I.C.	No	6	9593.00	57558.00
75	**Providing & fixing of 1x40W LED Post Top Lantern fixtures** (CGL Cat No. LPTO-40/CDL 40W or equivalent under Cat-II or above as per R&B SOR) complete fitting in all respect and 4 core x 2.5 mm2 double insulated PVC flexible copper cable from control gear fitting to SMC junction box as per instruction of E.I.C. (4 No. are to be provided on Main gate & 3 No. are to be provided on 4.5Mtr Tubular pole)	No	6	7556.00	45336.00
				Sub-Total 3 (Schedule - B-3)	**521382.00**

SCHEDULE B - 4 : Control Room Electrification

SR. NO.	ITEM DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
76	**Providing and fixing of DBS as AC Panel - 1 for CR** of ISI marked Powder coated Pearl DBS of ivory color , wall mounting, Double door Distribution board of L&T, Heggar or higher make fitted with 63Amp Phase Bus bar, Earth / Neutral Bars and inter connecting wires with removable bottom gland plates for all power cable entry from bottom with DIN Channel ,incoming contact and 1No. - 63Amp TPN MCB 'C' Series, 6Nos. - 20A SP MCB 'C' Series and 13Nos. -10A SP MCB 'C' Series All MCBs are L&T, Anchor or Higher make only. Complete in all respect and as per instruction of EIC.	No.	1	6738.00	6738.00
77	**Supplying & Laying Sub-main lines of 3 X 2.5 mm2** (two for P & N and one for Earthing) copper PVC insulated wier of ISI brand in suitable standard make steel conduit pipe having minimum 1.5 mm thickness of approved brand with ISI brand with clmpes with it's associated accessories for various circuits amanating from AC panel 1.as per inst. of E.I.C.	Rmtr	200	125.00	25000.00

78	**Point wiring for control room tube lights, fans, exhaust fans, fency lights, water tight bulck head lights** with PVC insulated 660 V grade standard copper wire in ISI make GI conduct pipe 20 mm dia and 1.6 mm wall thickness size fitted with sadles on the wall/ceiling. Size of wire shall be with 3C x 1.5 sq.mm PVC insulated copper wire for phase and neutral and earth wire [Green] and 5 Amp Anchor/Roma or any equivalent switch as per specification with 16 guage M.S. box. The box shall be covered with 3 mm thick decorative mat finish hylum sheet. The work is all inclusive of supply and fixing of required materials as afore said [like GI conduct pipe , sadles , swithces , Steel box , ceiling Rose , flexible copper wire etc] to complete point wiring with each fixture to be earthed by SWG-12 stranded copper conductor having green color as per direction and instructions of E.I.C.	Point	50	1298.00	64900.00
79	**Providing, fixing & termination for Emergency D.C. supply arrangment.** This job includs supply & laying of 2C x 2.5 mm2 Copper arrmoured cable from battery charger to SBDC, fixing & providing SBDC & complete wiring with supply of wire & D.C. lamp (110V D.C., 100 watt-4 Nos.) in standard steel conduit pipe as per inst. of E.I.C.	Job	1	4492.00	4492.00
80	**Providing and Fixing points wiring in GI. Conduit** size 20 mm dia and 1.6 mm wall thickness with single PVC insulated 2.5 Sqmm. copper wire of ISI standard good quality using 1.5mm thick suitable size ISI mark Anchor brand 15 Amp. 250 Volt, 5-pin plug socket as seperate plug point with shock proof accessories incl. indication lamp; erected on separate decorative mat finish hylum sheet board on wall with providing adequate green earthing wire as per specification and instruction of Engineer Incharge.	Point	5	1213.00	6065.00
81	**---- Do ---- as above but with singal PVC insulated 3C x 1.5 sq. mm.copper wire of ISI mark plug socket for 5A domestic use separate plug pointas per direction and instruction of E.I.C.**	Point	5	814.00	4070.00
82	**---- Do ---- as above but looped on same board i.e. No separate board, plug socket for 5A domestic use as per direction and instruction of E.I.C.**	Point	10	199.00	1990.00

83	**Providing & Fixing of Ceiling Fan of 1400mm sweep** Bajaj/Crompton / Orient/ usha / Cinni make (ISI approved). Fan is to be purchased from authorised dealer. Flexible wiring using twin core double PVC 48/0.2 mm copper flexible cord of suitable & approved make and size from ceiling rose upto fan terminal & supply and fixing of energy saver regulators, extra GI pipe of required size and length for lowering of fan if required as per instruction of EIC.	No.	7	1797.00	12579.00
84	**Providing & Fixing of 50 W LED Lighting Fixture** (CGL Cat No. LCTLR-50-FO-CDL 50W or equivalent under Cat-II or above as per R&B SOR), 4-core 2.5mm2 double insulated flexible strended wire should be used from control gear fittings to approved SMC type junction box as per inst. of EIC.	No.	18	5059.00	91062.00
85	**Providing and fixing of 41.5W LED Lighting Fixture** (CGL Cat No. LPFC-36-CDL 41.5W or equivalent under Cat-II or above as per R&B SOR) as per instruction of EIC.	No.	4	3154.00	12616.00
86	**Providing and fixing of 40W (1X4) LED Lighting fixtures** as per drawing (in office area & Porch Area) (CGL Cat No. LCTLSN-40-CDL (1X4) 40W or equivalent under Cat-II or above as per R&B SOR) as per instruction of EIC.	No.	4	3417.00	13668.00
87	**Providing & fixing of 30W LED Street Light Bulkhead** (CGL Cat No. LSTO-30-CDL 30W or equivalent under Cat-II or above as per R&B SOR) on out side C/R building and inside cable trench in C/R including wiring from ceiling rose to fixture with suitable size of PVC insulated ISI marked copper wire only as per Instruction of EIC.	No.	8	2678.00	21424.00
88	**Providing and fixing of heavy duty exhaust fan in battery room** size 18" of Make GEC/KHAITAN/ CROMPTON/ BAJAJ incl. M.S. louver shutter of Fan & necessary wall finishing works and applying bird proof net on outside wall with required arrangement for rain water sealing and necessary conection from ceiling rose as per Direction and instruction of EIC.	No.	2	3494.00	6988.00
89	**Providing & Fixing of Electric bell with bell switch** near officer's table. All materials must be ISI mark and approved by EIC.	No.	1	149.00	149.00
90	**Providing and fixing of 18W LED Lighting Fixture** (CGL Cat No.. LCTL-18-CDL 18W or equivalent under Cat-II or above as per R&B SOR) as per instruction of EIC	No.	5	1281.00	6405.00

91	**Providing & fixing of surface mounted 12-way distribution box** of L&T/STANDARD/MDS/INDOASIA make for electric power supply to staff quatrs. It includs providing and fixing of one 32A TPN, three 16A DP switch of L&T/STANDARD/MDS/INDOASIA with fixing and commissioning of energy meter provided by DISCO, if required with complete wiring with 2.5mm2 copper, insulated wire of POLYCAB/AVOCAB make.	No.	0	1997.00	0.00
92	**Providing & fixing of Wall Mounted Fan** Crompton / Orient/ PSPO / Usha / Cinni (must be ISI approved). including wiring from ceiling rose to Fan terminals of by using twin core flexible PVC to PVC 48 / 0.2 mm copper cord of suitable & approved size & fixing of Fan regulator.	No.	2	1597.00	3194.00
93	**Providing and laying of 2 core, 2.5 sq. mm PVC armoured copper cable** of standard ISI make , inside hume pipe / cable trench / in ground, from control room / transformer distribution board to junction box of quarter & main switch of watchman cabin. During laying of cable in the ground, excavation of 300mm width and 450mm depth in any soil with murrum refilling to be done. This includes supply of saddles on the wall as instructed and approved by E.I.C.	Mtr.	100	120.00	12000.00
94	**Cutting, uprooting and removing of grass, shrubs, bushes etc. from area as per priority given by E. I. C and also removing unwanted plants like Bordies, Ankdas, Nafatias, etc. to be excavated uproots**. Also includes disposing off of cut grass, shrubs and unwanted plants outside the premises of GETCO as per instructions of E. l. C. Scope included all tools and tackles, equipment, transportation, loading and unloading of cut grass. Nothing will be issued by getco	sq.mtr	4000	1.00	4000.00
95	**Providing & Fixing of G.I. 1.5Mtr Long, 16MM Dia Lightning Rod (Spike) for Lightning Protection** of Control Room Buiding as per Instruction of EIC as shown in Drawing No.. GETCO/E/STD/DSLP-66kV CR- R0 Dtd. 26.10.17	No	4	141.00	564.00
96	**Providing & fixing of 50x6 mm GI Flat for Control Room DSLP Protection.** The work is to be carried out as per Drg. No.. GETCO/E/STD/ DLSP-66kV CR, R0 dated:26.10.17 as per inst. of EIC. The rates are including fixing of clamps on wall which is to be fabricated from 50X6 GI Strip. (GI Strip will be supplied by GETCO Free of Cost)	RMtr	100	296.00	29600.00
				Sub-Total 4 (Schedule - B-4)	**327504.00**

SCHEDULE B - 5 : Supply of Furniture

SR. NO.	ITEM DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
97	**Supply of Steel Chair 'S' type,** overhanging arm with cushion with cane seat/ 1"x16" gauge round pipe frame complete as per instruction of EIC & procurement from Adult training centre for blind,Ahmedabad , Samanvay Saranjam-Rajkot, Saurastra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.	No.	2	1850.00	3700.00
98	**Supply of Steel Rack of size 30"x 36"x 15" (3' x 2.5'x 1')** with three partitions, prepared with 20 gauges as per instruction of EIC & procurement from Adult training centre for blind,Ahmedabad , Samanvay Saranjam-Rajkot, Saurastra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.	No.	1	2100.00	2100.00
99	**Supply of Steel Table of size 54"x 30"x 30" (4.5' x 2.5' x 2.5')** one side three drawers, one side shelf 1x18 gauge square pipe with Nova PAN Prelaminated top complete with locking arrangement to drawers & self as per instruction of EIC & procurement from Adult training centre for blind,Ahmedabad , Samanvay Saranjam-Rajkot, Saurastra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.	No.	1	8750.00	8750.00
100	**Supply of Computer Table** from prelaminated board with Key board facility and drawer with locking facility with continuous printer out facility & mouse tray and also with special tray fo CPU & UPS having size 42''x24''x30'' complete as per instruction of EIC & procurement from Adult training centre for blind,Ahmedabad , Samanvay Saranjam-Rajkot, Saurastra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.	No.	1	7200.00	7200.00
101	**Supply of Steel revolving Chair,** revolving & tilting, low back high type seat with foam rubber 3" in seat 2" in back with good quality raxine cover ,five legs. Chromium plated frame complete as per instruction of EIC & procurement from Adult training centre for blind,Ahmedabad , Samanvay Saranjam-Rajkot, Saurastra Rachnatmak Samiti, Rajkot, Udyog Bharti-	No.	1	4600.00	4600.00

	Gondal or any other Govt. approved organization only.				
102	**Supply of Steel Cupboard , of size 78" x 36" x 19"** four partition, door & Shelves 20 gauge complete as per instruction of EIC & procurement from Adult training centre for blind,Ahmedabad , Samanvay Saranjam-Rajkot, Saurastra Rachnatmak Samiti, Rajkot, Udyog Bharti-Gondal or any other Govt. approved organization only.	No.	1	9200.00	9200.00
				Sub-Total 5 (Schedule - B-6)	**35550.00**

SCHEDULE B - 6 : Supply, Installation and Commissioning of CCTV Camera Surveiliance System

SR. NO.	ITEM DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
103	Supply of IP Bullet Camera (2MP) with bracket and mounting accessories, as per technical specification and tender terms and conditions.	Nos	5	8230.74	41153.70
104	Supply of IP PTZ Camera (2MP) with bracket and mounting accessories, as per technical specification and tender terms and conditions.	Nos	1	67145.87	67145.87
105	Supply of Network Video Recorder (8 Ch) inbuilt 6 TB SURVEILLANCE HDD, as per technical specification and tender terms and condition.	Nos	1	26532.91	26532.91
106	Supply of Network Video Recorder (16 Ch) inbuilt 12 TB SURVEILLANCE HDD, as per technical specification and tender terms and condition	Nos	0	47940.15	0.00
107	Supply of POE SWITCH 4 Port with 01 nos SFP port, as per technical specification and tender terms and condition.	Nos	0	33286.75	0.00
108	Supply of POE SWITCH 8 Port, as per technical specification and tender terms and condition.	Nos	1	33527.95	33527.95
109	Supply of POE+ SWITCH 16 Port with 02 nos SFP port, as per technical specification and tender terms and condition.	Nos	0	227338.82	0.00
110	Supply of 22 LED Monitor With Wall Mount Bracket, as per technical specification and tender terms and condition.	Nos	1	9648.33	9648.33
111	Supply of 32 LED Monitor With Wall Mount Bracket, as per technical specification and tender terms and condition.	Nos	0	32502.82	0.00
112	Supply of 1 KVA UPS, as per technical specification and tender terms and condition.	Nos	1	23782.74	23782.74
113	Supply of Powder coated 6 U RACK, as per technical specification and tender terms and condition.	Nos	0	32901.21	0.00

114	Supply of Powder coated 9 U RACK, as per technical specification and tender terms and condition.	Nos	1	10661.60	10661.60
115	Supply of CAT-6 Armoured cable, as per technical specification and tender terms and condition.	Mtr.	400	79.08	31632.00
116	Supply of Fiber optical cable - 6 Core, as per technical specification and tender terms and condition.	Mtr.	0	64.26	0.00
117	Supply of LC-SC single mode optical fiber duplex patch cord, as per technical specification and tender terms and condition.	Nos	0	1035.02	0.00
118	Supply of LIU-06 port fully loaded, as per technical specification and tender terms and condition.	Nos	0	4076.82	0.00
119	Supply of Un-armored 3 core, 2.5 sq.mm with standard copper conductors power cable, as per technical specification and tender terms and condition.	Mtr.	100	94.90	9490.00
120	Supply of Standard ISI marked weather proof Junction box, as per technical specification and tender terms and condition.	Nos	6	518.99	3113.94
121	Supply of HDPE Pipe, as per technical specification and tender terms and condition.	Mtr.	150	49.43	7414.50
122	Supply of 3 mtrs Long GI Pole (Conical/polygonal), as per technical specification and tender terms and condition.	Nos	1	13025.25	13025.25
123	Supply of 9 mtrs Long GI Tubular Pole as per technical specification and tender terms and condition.	Nos	0	35578.22	0.00
124	Laying of CAT-6 armour/Fiber optical cable and Power Cable in PVC / HDPE pipe with all necessary accessories as per technical specification and tender terms and condition.	R.Mtr	400	13.84	5536.00
125	Digging suitable width up to 450 mm and back filling in any type of soil for laying of surveillance system cable.	R.Mtr	50	145.32	7266.00
126	Splicing of Single mode Pigtail with Fiber core	Nos	0	264.93	0.00
127	Installation and commissioning charges for CCTV surveillance system including providing and Mounting Stand for LED and brackets for IP Bullet/PTZ camera, Patch cord, LIU, power adopter, HDMI cable, connectors, required splicing of cable etc. as per tender terms and condition.	Job	1	3618.12	3618.12
				Sub-Total 6 (Schedule - B-6)	**293548.91**

SCHEDULE B - 7 : 66 kV Transmission Line

SR. NO.	ITEM DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
1	**The work of detail survey**, preparation and submission of profiles in 6 copies (PLSCAD as well as hardcopy), Detail scope of Work :- (a) Fixing of tower as per actual requirement, site condition and plotting of line on profile having standard details i.e. span length, lat-long (co-ordinate), chainage, weight and wind span, all dimensions, scale, legends, tower spotting data etc. as per requirement and along with all require details. (c) Preparation and submission of tower schedule as per standard require details with all the Major - Minor crossing details in profile drawing and tower schedule, along with due care of clearance as per prevailing standards i.e., for all electric line with pole, all type of track, river, pond, nala, road, canal etc. (d) Details of Right of Way in profile drawing. i.e. Building, Temple, Well etc. (g) Plotting line on TIKKA-MAP (Revenue Land map) - Required TIKKA-MAP will be provided by GETCO. Importantly, any work other than mentioned will align with the specific requirements outlined by the Engineer-in-Charge. Note : The survey report will be submit with sign and stamp of the surveyor agency and engineer in charge.	KM	0.3	10222.00	3066.60
2	**Check Survey** along with plotting of line route on village (tika) map with Coordinates including detailed survey, preparation of profiles and revision in original route alignment, if any and as per instruction of EIC.	KM	0.3	9277.00	2783.10
3	**Excavation** excluding back filling but including, shoring, shuttering, dewatering tree cutting for tower footings etc for :-				
	a. **Normal Soil either Dry or Wet/ Sandy Soil**	Cu.m	28	307.00	8596.00
	b. **Black cotton soil either dry or Wet**	Cu.m	0	614.00	0.00
	c. **Normal submerged / marine soil** where dewatering is necessary.	Cu.m	0	484.00	0.00
	d. **Black Cotton submerged / marine soil** where dewatering is necessary.	Cu.m	0	703.00	0.00
	e. **Soft Rock**	Cu.m	9	1066.00	9594.00
	f. **Hard Rock**	Cu.m	15	2212.00	33180.00

4	**Installation of steel reinforcement** in concrete foundation including supply of GETCO Approved M.S. bars, binding wire. Work also includes their cutting, bending, shaping and binding with binding wire and fixing in position of TMT bars as per drawing before the concrete work and as per instruction of the EIC	MT	0.3	99900.00	29970.00
5	**Stub-setting** with prop or template including back-filling, during back filling dispose of excess soil and levelling of site is to be done as per instructions of EIC but excluding excavation and concreting etc. for all types of towers/extensions except special towers. (Weight of stub, cleat & template with Bolt & Nuts of stub & template shall be counted) - **Upto 6 Mtr Extension**	MT	2	8206.00	16412.00
6	-do- but for **Upto 9 to 25 mtr Extension**	MT	0	9918.00	0.00
7	**Concreting of foundation by M20/M15/M25 mixture** including shoring, shuttering, compaction, dewatering etc. for normal tower / tower with extension upto 25mtr. After completion of concrete work, curring (watering to concerte) is to be done as per instruction of EIC. - **M20 Mixture** (Rates are inclusive of supply of GETCO approved Cement only.)	Cu.m	7	12246.00	85722.00
8	-do- but for **M15 mixture**	Cu.m	0	10306.00	0.00
9	**Grounding of towers with pipe type earthing** including excavation and back filling, with supply of all materials like 32mm dia heavy duty 3 mtr. long G.I. Pipe, 50 x 6 mm G.I. flat, GI bolt-nuts, with GI spring washer, salt, charcoal etc. as per drawing and as per instruction of EIC.	set	1	8985.00	8985.00
10	**Grounding of towers with COUNTER POISE TYPE** including excavation and back-filling and supply of all materials like GSS wire, GI lugs, GI bolt-nuts, GI Spring Washer, salt, charcoal etc. as per drawing and as per instruction of EIC.	set	1	15756.00	15756.00
11	**Erection of super structure upto 6 meter extension** including tree cutting, fixing of tower accessories, attachments except ACD /DP /NP /CIP /PP and excluding tack welding of bolts as per instruction of EIC. This includes taking delivery of tower materials and bolt-nuts from GETCO's stores etc. for normal, extension & special towers at destination and keeping them in safe custody and transporting the same to erection site.	MT	7.5	10076.00	75570.00
12	Same as above but **erection of 9/12/15/18/21/25 meter extension** with tower.	MT	0	12694.00	0.00
13	**Fixing of Anti-climbing devices** including supply of barbed wire as per drawing and as per instruction of EIC.				
	a. **66KV**	Loc	2	2596.00	5192.00
14	**Fixing of DP / NP / PP / CIP** including supply of plates and supply of G.I. bolts-nuts & tack welding as per drawings and as per instruction of EIC.				

	a. S/C	Loc	0	1690.00	0.00
	b. D/C	Loc	2	3379.00	6758.00
15	**Tack welding of nuts** upto approx. 10 mtrs. height OR two bottom-most panel from ground level at three places on the nuts diametrically and applying zinc rich paint immediately after tack welding and as per instruction of EIC.	Per Bolt	864	15.00	12960.00
16	**Dismantling of any type of tower** including transportation & crediting to nearest GETCO's store or substation as per instruction of EIC.	Per MT	0	8434.00	0.00
17	**Cutting of stubs of old tower** to be dismantled including breaking of chimney/cutting of RCC upto 450mm below ground level & crediting stubs & steel bars to GETCO's store or substation including back-filling & leveling of site as per inst. of EIC.	Per Tower	0	12618.00	0.00
18	**Work of Painting of Line name, Location No.,** two coat Painting Color code of desired length and telephone no. on Tower Leg with letter of Gujarati language using ISI marked Paint as per instruction of EIC including Supply of paints and other require materials.				
	b. **All four legs - For 2 Nos. of Line (D/C)**	Per Loc.	2	431.00	862.00
	c. **Two legs - For 1 Nos. of Line (S/C)**	Per Loc.	0	216.00	0.00
19	**Stringing of ONE ground wire** including laying, jointing, tensioning, clamping with accessories, jumpering, & sister wire, vibration damper earth bond etc.& including tree cutting as per instruction of EIC.	RKM	0.025	16843.00	421.08
20	**Stringing of ACSR/ AAAC 3 (Three) conductors** for single circuit including laying, jointing, tensioning, clamping with armour rods, hoisting of insulator string fixing of jumpers, dampers etc. & with required tree cutting on entire length for adequate clearances / safe charging of line, as per instruction of EIC - **66KV Panther / AL-59 Conductor**	RKM	0	56464.00	0.00
21	-do- but for **Stringing of ACSR/ AAAC 6 (Six) conductors** for double circuit - **66KV Panther / AL-59 Conductor**	RKM	0.05	112928.00	5646.40
22	**Termination and connection for making LOOP-IN-LOOP-OUT arrangement** with existing line during specified outage including restringing of existing conductors OR dismantalling / new stringing for making LILO arrangements with existing line or for change over line as per approved LILO arrangement in profile as per instruction of EIC **in COLD CONDITION** and dismentalled materials to be credited to near by GETCO's store or sub station as per inst. of EIC.	Job Work	1	117351.00	117351.00
23	**Complete Installation of OPGW cable (24/48 fibres)** including laying, providing required hardwares, in line splices to be encased in Fibre Optic Splice Enclosures, Laying and termination of a fibre optic approach cable required to connect Overhead Fiber Optic Cable (OPGW) between the final iin line splice enclosure on the gantry/tower and the Fibre Optec Distribution panel	KM	0	97193.00	0.00

	(FODP) to be installed within the building at both the substation ends as per technical specifications				
24	**Link up of OPGW Cable** including all related activities as per inst. Of EIC.	KM	0	8850.00	0.00
25	T**o make necessary arrangements for fixing of 3 Nos. of through (parallel / bypass) jumper** provide at any location of newly erected / existing line of (66kV / 132kV / 220kV) as per instruction of EIC. Firewadge and conductor for the same work will be provided by GETCO at free of cost, but agency has to take it from GETCO's store and credit back the balance materials. Only Fire wadge connector will be fixed by special authorized person with using of firewadge fixing gun only and same will be arranged by GETCO. **- D/C Line Only**	Job Work	0	9354.00	0.00
26	**Work for removing of 3 Nos. of through (parallel / bypass) jumper** provided at any location of newly erected / existing line of (66kV / 132kV / 220kV) along with fixing of main line jumper on tension tower as per instruction of EIC. Agency has to credit back the dismantled firewadge and conductor for the same work to the GETCO's store or sub-station as per instruction of the EIC. **- D/C Line Only**	Job Work	0	5094.00	0.00
27	**Erection of 'H' frame structure** with channels, bracings, clamps etc. for 'A'/'B' type location including excavation in Normal/ black cotton soil (Dry / Wet / submerged) and back filling of earth and leveling of the land as per inst. of EIC. Also with supply of bolts, nuts and painting of the complete structure including required tree cutting. Before erection, one coat of good quality primer must be applied to the complete structure and black paint of standard make should be applied up to 3 mtr. from bottom. After erection, two coats of aluminium paint of Asian / Burger / Nerolac make shall be applied to the complete structure.	No.	1	11771.00	11771.00
28	A**s per Item Sr. No. 1,** but for angular location upto 60 Degree deviation / dead end – **'C' type.**	No.	0	15673.00	0.00
29	**Erection of 105 Lbs./ Rail or RSJ 150 x 150 mm size single pole** as per work indicated in Item Sr. No. 1.	No.	0	4127.00	0.00
30	**Stringing of ACSR/AAAC - 3 (Three) conductors** for single circuit including laying, jointing, tensioning, clamping with armour rod, hoisting of insulator string, jumpering, fixing of dampers etc. complete as per specification including required tree cutting with adequate clearance and safe charging of Line and as per instruction of EIC.	RKM	0	36094.00	0.00

31	**Grounding of above 'H' frame/single pole structure with pipe type earthing** as per drawing including excavation by augering & back filling & supply of all materials like 32mm dia. heavy duty 3 mtr. long GI pipe (B-Class) & G.I. flat of 50x6mm size including supply of bolt nuts, salt, coal, charcoal etc. as per drawing. and as per instruction of EIC.	Set	1	5084.00	5084.00
32	**Erection of stay set** complete including excavation with stay clamp, turn buckle, eye bolt, anchor rod and binding with 7/8 or 7/10 SWG earth wire, as per instruction of EIC.	Set	6	802.00	4812.00
33	**Concreting of foundation for all the structures, with M15 mix.** including concreting of stay sets with supply of materials like cement of 43 grade, sand, metal etc. with muffing (400 mm Dia x 300 mm Ht.) above ground level for all the structures. After completion of concrete work, watering to concerte is to be done as per instruction of EIC. Rates are inclusive of supply of GETCO approved Cement only.	Cu.m	5	10306.00	51530.00
34	**Tack welding of nuts** at three places on the nuts diametrically fitted to 'A', 'B' and 'C' TYPE structures and applying red oxide & zinc rich paint on it immediately after tack welding, as pre instruction of EIC.	Per Bolt	16	20.00	320.00
35	**Transportation of Girder / Rail** from GETCO's nearest / any Store Centre to one end of the line including loading and unloading and as per instruction of EIC.				
	i. **up to 70 KMs (Upto 6 MT) - Lumsum** (To be executed / considered for a particular Job / Lot while weight is not increasing 6 MT per Trip)	Job / Lot	1	16848.00	16848.00
	ii. upto 70KMs (Beyond 6 MT) - proportionate	Per MT	0	2808.00	0.00
	iii. Beyond 70KMs.	per MT/KM	100	22.00	2200.00
36	**Conversion of 'A' type 'H' frame structure into 'B' type 'H' frame structure** in existing line by replacing necessary channels etc. and termination and restringing of Dog or Panther 3 conductors for making LILO arrangement with existing line or for change over of line during availability of specified outage only. Supply of require size GI N/B will be in the scope of contractor. Item also include transportation of new B type channel from store / Substation as per availability to site and to be creadit the dismental old channel / any hardware and other materials if replaced to TR dept with necessary inventory as per instruction of EIC.	Job work (Per Loc)	0	34042.00	0.00
37	**Dismantling of 'A' & 'B' type 'H' frame structure** by breaking of muffing upto 450 mm depth from ground level and cutting the girders from 450 mm depth from ground level by gas cutting & crediting the material to GETCO Store or Substation including transportation as instructed by Engineer in-charge.	Loc.	0	7656.00	0.00

38	**Providing & fixing of NP with name of line / DP in**cluding supply of bolts & nuts and tack welding/ punching as per drawings.	Loc.	1	1195.00	1195.00
39	**Providing & fixing of ACD on Single Pole girders** as per drawing and as per instruction of EIC.	Loc.	0	422.00	0.00
40	**Providing & fixing of ACD on A / B Type H-Frame** as per drawing and as per instruction of EIC.	Loc.	1	843.00	843.00
41	**Providing & fixing of ACD on C Type H - Frame** as per drawing and as per instruction of EIC.	Loc.	0	1265.00	0.00
42	**Work of Painting of Line name**, Location No., two coat Painting Color code of desired length and telephone no. **on Single Pole girder** with letter of Gujarati language using ISI marked Paint as per instruction of EIC including Supply of paints and other require materials.	Per Loc.	0	108.00	0.00
43	**Work of Painting of Line name,** Location No., two coat Painting Color code of desired length and telephone no. **on H-Frame (2 Leg)** with letter of Gujarati language using ISI marked Paint as per instruction of EIC including Supply of paints and other require materials.	Per Loc.	1	216.00	216.00
				Sub-Total 6 (Schedule - B-7)	**533644.18**
				Sub-Total 1 (Schedule - B-1)	**19,98,302.00**
				Sub-Total 2 (Schedule - B-2)	**3,37,467.00**
				Sub-Total 3 (Schedule - B-3)	**5,21,382.00**
				Sub-Total 4 (Schedule - B-4)	**3,27,504.00**
				Sub-Total 5 (Schedule - B-5)	**35,550.00**
				Sub-Total 6 (Schedule - B-6)	**2,93,548.91**
				Sub-Total 6 (Schedule - B-7)	**5,33,644.18**
				TOTAL	**40,47,398.09**
				GST @18% in Rs.	**7,28,531.66**
				Total amount with GST	**47,75,929.74**

NOTE: -Welfare Cess shall be reimbursed on production of proof of such payments made by the contractor to the appropriate department. GST rate will be applicable as per rules.

All the work related to the transmission line like detailed survey, check survey, tower/DP foundations, material testing, tower/DP erection, stringing, final testing, etc should be carried out as per GETCO'S standard FQP for transmission line.
Successful bidder has to appoint site engineer to maintain site register and FQP as per ISO
All work should be done according to ISO & FQP and all required documents including filled FQP, testing results, etc should be submitted while handing over the line
While calculating the weight of stub-setting, the weight of stub, cleat & templates shall also be added in stub weight.
Red oxide & zinc rich paint shall be applied after tack welding of nuts.
The above rates are with supply of cement by the contractor.
The rates of erection of 'H' frame structures are 'per NO' irrespective of weight & type of steel sections provided by the GETCO to be erected.
All 'H' frame A, B, C type structures, tensions guys are to be fully concreted and wind guys shall be concreted for 0.6 mtr. Height only.
All erection work is to be carried out strictly as per the manual of OEM (Original equipment manufacturer), FQP and instruction of Engineer in Charge.
All equipment erection charges are inclusive of shifting dragging handling of the respective equipment up to S/s erection site from its S/s site store but exclusive of service tax.
Contractor has to ensure safe shifting dragging erection of all equipments to comply with labour laws I.E. rules etc.
All erection charges are inclusive of fixing of clamp connectors, all necessary accessories to the respective equipments.
Transformer erection charges cover shifting, dragging, handling etc. for its bushings, radiators, conservator tank and allied accessories and oil filling, filtration with dedicated filter machine.
All erection work includes erection insurance to be arranged by the contractor at his cost.
All the required tools and tackles like compression jointing machine for conductor, earth wire, cutting machine, welding set, drill machine, etc are to be arranged by the contractor at his cost.
Contractor should complete transportation within one job as per above schedule. No extra payment will be given in any case other than this job.
If filtration of Transformer is required in any case than the dedicated filter machine shall be arranged by Contractor at his own cost
Earthing pit activities should be done in such a way in presence of GETCO supervisor that final earthing pit resistance should be record as per standard. All expenditure like sufficient watering to maintain earth resistance up to the mark should be born by contractor.
All the brought out items get to be approved from DE/EE invariably.
The execution of bore are to be carried out as per soil strata in consultation with E.E. .
The Classification of hard rock strata should be got approved from E.E. invariably.
Contractor has to arrange security arrangement for round the clock (3 person per day) switch yard and control room till sub station will be handover to concern TR division at contractor cost.
Contractor has to make arrangement for site engineer and skill labors for maintaining all activities and records as per FQP. also assisting to staff/Engineer in charge to take IR values, Earth pits values, name plate detail, oil samples etc all activities relative to commissioning of project.

Contractor has to make arrangement for skill labors for assisting to commissioning engineer, PLCC staff/engineer, SMS/testing staff/Engineer as an when require as per instruction of Engineer in charge.
After completion of project successful bidder has to submit all the records like battery charging report, control wiring schedule, earth pit lay out, earthing grid layout, power cable lay out, yard light pole and Ckt lay out etc in hard and soft copy for handing over the project.
For Colony & Yard lighting and Control Room Industrial Electrical wiring works the rates quoted shall be inclusive of providing and fixing / Installation ,testing and commissioning of complete Control Room lightings, Ceiling Fans, Exhaust Fans etc..
All items / materials shall be installed / erected in accordance with specified manuals /technical guide lines of the manufacturer and as per instruction of EIC.
Cable laying, Circuit distribution and Fixture fixing shall be carried out as per GETCO Standard Drg attched in tender and as per Instruction of Engineer In charge.
Control Room Wiring, Fixing of fixture, Ceiling fan & Exhaust fan etc shall be carried out as per Standard Drawing No. attached in tender and as per instruction of Engineer In charge.
For entire control Room, Office & store etc. building wiring is to be done by Providing and fixing of ISI Marked GI conduit pipes 20mm dia. & 1.6 mm wall thickness size (Minimum Size) and PVC insulated stranded copper wire of FENOLEX/ANCHOR make as per relevant IS.
Total tilting angle for the flood light luminaries provided on pole is considered as maximum of 45 degree, looking to the tilting angle 20 degree available with luminaries it self & supporting pipe should be fabricated & welded accordingly. Also arm for fixing of Flood light luminaries shall be fix as per required angle & direction as per instruction of EIC.
EE/DE will decide the make of luminaries, fan, cable, MCB, Switches etc. and same is to be inspected at authorize depot.
Yard light pole should be inspected at the cost of contractor.
GETCO will provide x'mer center. Electricity bill for earthing work, battery charging, testing, filtration, yard light testing etc. successful bidder has to pay & contractor has to apply to PGVCL for 3 phase connection for electricity & its bill has to pay by contractor at his own cost.
Service Tax will be reimbursed after submission of documentory evidence by the contractor for the amount which shall be lower of (1) the Amt. supported by the documentory proof of service tax paid; (2) service tax payable on the Amt. passed for payment as per terms and conditions of the order.
All the work related to the transmission line like detailed survey, check survey, tower/DP foundations, material testing, tower/DP erection, stringing, final testing, etc should be carried out as per GETCO'S standard FQP for transmission line.
Successful bidder has to appoint site engineer to maintain site regester and FQP as per ISO
All work should be done according to ISO & FQP and all requier documents including filled FQP, testing results, etc should be submitted while handing over the line
The above rates are with supply of cement by the contractor.
For Maintenance Earthing Electrode & Compound must be ERDA Tested. GETCO will randomly select the sample of Electrode and Compound and send to ERDA for Testing Purpose. If any Materials found fail in Testing whole the Electode will be rejected. Testing Charge will be born by GETCO.

CERTIFICATE

I/we am / are ready to carry out the above work …….. % above/below, (In word …….. % above/ below) of schedule rate of GETCO