

E Tender no3/BVN/Canteen-E.gallaery- Sales cum Record room /2019 ( Re invite)					
Sub:Construction of e Gallery , sales Cum Record room and canteen building at Lignite project Bhavnagar					
Note: (1) The price bid contains separate quantity for each structures in all the items and bidders has to quote the same rate for each structure . If bidder quote the different rates for same item for different buildings , than the lowest rate of the particular item shall be considered for evaluation .					
<b>PRICE BID-II-ELECTRICAL WORK</b>					
Sr.No	Description	Qty.	Per	Rate	Amount
1.1	Point wiring for Light / Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. With medium class Rigid PVC pipe and accessories Cat-III- (1) For Canteen Building	25	Point		
1.2	-do- as above item no- (1.1) but for Sales Cum record Room	27	Point		
1.3	-do- as above item no- (1.1) but for E- gallery building	15	Point		
2.1	For Secondary light Point wiring with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. With medium class Rigid PVC pipe and accessories for secondary light point Cat-III. Maximum 6 mtr. length, excess will be conducted per meter.- (1) For Sales Cum Record Room	8	Point		
2.2	-do as above item no. (2.1) But for E-gallery Building	5	Point		
3.1	Point wiring for FAN with 2-1.5 sq.mm and earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator with separately mounted and accessories with earth continuity of following type erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. With medium class Rigid PVC pipe and accessories Cat. III (1) For canteen Building	8	Point		
3.2	-do- as item no. (3.1) but for sales cum record Room	6	Point		
3.3	-do- as item no. (3.1) but for e- gallery Building	2	Point		
4.1	Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessories.cat-III- (1) For Canteen building	6	Point		
4.2	-do- as item no. (4.1) but for sales cum record Room	16	Point		
4.3	-do- as item no. (4.1) but for e- gallery Building	10	Point		

5.00	Point wiring for two way controlled light point with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall / ceiling , complete with 6A modular type switches and following type of accessories erected on PVC / metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary batten / angle holder or ceiling rose or H.D.Connector as directed. (a) With medium class rigid PVC pipe and accessories. cat-III.- <b>For Sales Cum record Room</b>	<b>13</b>	<b>Point</b>		
6.1	Point wiring for individual plug with & earthwire of 1.5 sq.mm(green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistandard copper wires, in following type of to be erected consealed in / on surface of wall / ceiling complete with modular type switch and 5 pin plug erected on PVC / Metallic box covered with appropriate front plate modules erected on /in wall / ceiling as per pipe erected with following type of accessories.- For 6A plug with 2-1.5 sq.mm Cu. Wire Cat III- (1)For sales Cum Record room	<b>9</b>	<b>Point</b>		
6.2	-do- as item no. (6.1) but for e- gallery Building	<b>3</b>	<b>Point</b>		
7.1	Providing following type of Modular Type Accessies mounted with PVC/Metalic box, Single mounted base frame covered with textured / metallic front plate, moues erected with necessary connection. As desired by Engineer In charge. <b>One No. SP 6 Amp. Cat. III - (1) For Sales cum record Room</b>	<b>16</b>	<b>Point</b>		
7.2	-do- as item no. (7.1) but for e- gallery Building	<b>16</b>	<b>Point</b>		
8.1	Providing following type of Modular Type Accessies mounted with PVC/Metalic box, Single mounted base frame covered with textured / metallic front plate, modules erected with necessary connection. As desired by Engineer In charge. One No. SP 5 pin plug Cat. III (1) for Canteen Building	<b>6</b>	<b>Point</b>		
8.2	-do- as item no. (8.1) but for sales cum record Room	<b>16</b>	<b>Point</b>		
9.1	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge.- (1) For sales Cum record Room 16 Amp. SP one way switch Cat.III	<b>1</b>	<b>Each</b>		
9.2	-do- as item no. (9.1) but for e- gallery Building	<b>1</b>	<b>each</b>		
10.1	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge. 6/16 Amp. Universal Socket Cat.III (1) For Canteen Building	<b>3</b>	<b>Each</b>		
10.2	-do- as item no. (10.1) but for sales cum record Room	<b>1</b>	<b>Each</b>		
10.3	-do- as item no. (10.1) but for e- gallery Building	<b>1</b>	<b>Each</b>		
11.0	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge. TV Co-axial socket outlet, Cat.III -(1) For Sales cum Record room	<b>3</b>	<b>Each</b>		

12.0	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge. For two gang, Cat.III- (1) For sales Cum Record room	3	Each		
13.1	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge. Fuse units 10Amp. or 16Amp., Cat.III (1) For sales cum Record Room	1	Each		
13.2	-do- as item no. (13.1) but for e- gallery Building	1	Each		
14.1	Providing following type of Modular Type Accessies mounted with PVC/Metalic box, Single mounted base frame covered with textured / metalic front plate, moues erected with necessary connection. As desired by Engineer In charge. <b>Black Plate Single Cat III- (1) For Sales Cum Record room</b>	1	Each		
14.2	-do- as item no. (14.1) but for e- gallery Building	1	Each		
15.1	Providing following type of Modular Type Accessies mounted with PVC/Metalic box, Single mounted base frame covered with textured / metalic front plate, moues erected with necessary connection. As desired by Engineer In charge. 6A/10A/16A/20A/25A/32A Single pole Modular MCB SwitchCat III (1) for Canteen building	5	Each		
15.2	-do- as item no. (15.1) but for Sales Cum record room	6	Each		
15.3	-do- as item no. (15.1) but for e- gallery Building	6	Each		
16.00	Providing following type of Modular Type Accessies mounted with PVC/Metalic box, Single mounted base frame covered with textured / metalic front plate, moues erected with necessary connection. As desired by Engineer In charge. 6A/10A/16A/20A/25A/32A Double pole Modular MCB Switch Cat III - For Sales cum Record Room	1	Each		
17.1	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size : With medium class rigid PVC pipe and accessories painted, 2 wire 2.5 sq. mm - (1) For Sales cum Record Room	100	Rmt		
17.2	-do- as item no. (17.1) but for e- gallery Building	50	Rmt		
18.1	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size:- With medium class Rigid PVC pipe and accessories 2 wire 4 sq. mm.(1) For Canteen building	80	Rmt		
18.2	-do- as item no. (18.1) but for Sales cum record room	60	Rmt		
18.3	-do- as item no. (18.1) but for e- gallery Building	15	Rmt		
19.0	Supplying & erecting Delton or approved make Telephone Cable electrolytic copper conductor PE insulation twisted in two pairs, & wrapped with FRLS PVC tape & sheathed with FRLS PVC or HFFR outer Jacket suitable for telephone wiring & confirming to C-DOT erected in existing pipe. of following size of conductors & nos.of pairs. With necessary connections :- Conductor Size 0.5 mm , Unarmoured Two Pairs( 10 for sales cum Record Room	60	Rmt		
20.1	Supplying and Erecting approved make LAN cable of following size in existing pipe as per direction :- <b>CAT - 6 (1) For sales cum record Room</b>	60	Rmt		
20.2	-do- as item no. (20.1) but for e- gallery Building	25	Rmt		

21.1	Supplying and Erecting approved make following size of TV Co-axial flexible cable comprising inner conductor of solid are copper insulated with foam PE & Secondary Conductor made of poly-Alluminium film bonded Al. braids @ Suitable coverage overall sheathed with black PVC Insulation of RG-6	1	Rmt		
21.2	-do- as item no. (21.1) but for e- gallery Building	1	Rmt		
22.1	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in Wall or ceiling erected with necessary PVC fitting & Junction boxes Fixed with Adhesive solution & clamps with following dai of pipes , in approved manner as directed.(b)25mm (1) For Sales Cum record Room	60	Rmt		
22.2	-do- as item no. (22.1) but for e- gallery Building	10	Rmt		
23.1	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in Wall or ceiling erected with necessary PVC fitting & Junction boxes Fixed with Adhesive solution & clamps with following dai of pipes , in approved manner as directed.(a)20mm (1) For sales Cum Record room	20	Rmt		
23.2	-do- as item no. (23.1) but for e- gallery Building	20	Rmt		
24.1	Proving & erecting PVC Corrugated Flexible Conduit with required nos. of Coupling, PVC bushes , Check-nuts etc. complete of following size. (a)20mm	5	Rmt		
24.2	-do- as item no. (24.1) but for e- gallery Building	5	Rmt		
25.10	Proving & erecting PVC Corrugated Flexible Conduit with required nos. of Coupling, PVC bushes , Check-nuts etc. complete of following size. (b)25mm - (1) For Sales Cum Record Room	5	Rmt		
25.20	-do- as item no. (25.1) but for e- gallery Building	10	Rmt		
26.10	Fittings - Supplying and erecting LED indoor fittings with LED of waltage .2 watt to .5 watt assembled on single on single MCPCB with housing used as heat sink shall be made of thick steel sheet conforming to Is 513 CRCA/ polyester powder coated and high U.V and corrosion resistance with diffuser and poly carbonate optics with company name 120 to 300 power factor more than .9THD <10% CCT 4000k to 6500k uniformity ratio >.7 Luminaire efficacy >85lumens/watt , LED driver efficiency >85% , CREE /OSRAM / PHILIPS lumiled /NICHIA/SEOUL/Bridgelux U.S.A make LED used for Luminaire ( Each fitting required LM79 & LM 80 certificate (A)Tube light with integral/non integral driver (b) 12-14 watt surge 2 KV , IP 20 , 4 feet- Catt-2 (1) For Sales Cum Record Room	8	Each		
26.20	-do- as item no. (26.1) but for e- gallery Building	2	Each		
27.10	Supplying and erecting Tube light with integral/non integral driver , (c)16 to 18 watt surge 4kv IP20 4feet- Catt-2 (1) For Sales Cum Record Room	3	Each		
27.20	-do- as item no. (27.1) but for e- gallery Building	1	Each		
28.10	Supplying and erecting square / circular surface / Recessed mounted down light with provision for spring loaded mounting clip complete .20-24watt surge 4kv , catt 2 (1) For Sales Cum Record room	25	Each		
28.20	-do- as item no. (28.1) but for e- gallery Building	12	Each		

29.10	Supplying and erecting LED street light / flood light fitting with high power white LED wattage 1 watt and above assembled on single MCPCB efficiency more than 130lm/w and corrosion free high pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminum with diffuser and polycarbonate optics with company marked name engraved or embossed 120 to 300 kv power factor more than .95 , THD <10% CCT 5000K to 5700K , Uniformity ration >.45 , luminaire efficiency >85% lumens watt , LED driver efficiency >85% , CREE/OSRAM/PHILIPS / Lumileds /NICHIA /SOUL/Bridgel 0% usa make LED use for luminare each fitting require Lm 79 and LM 80 Certificate (A) Street light IP-65 surge - 4KV (a)10 to 12watt (1) Catt-2 (1) For sales cum record room	10	Each		
29.20	-do- as item no. (29.1) but for e- gallery Building	5	Each		
30.10	-do- as item no. 29.1 as above but for (1)15 to 24 watt - Catt-2 (1) For sales Cum record room	4	Each		
30.20	-do- as item no. (29.1)and (30.1) as above but for e- gallery Building	4	each		
31.00	Providing and erecting approved Ceilling fan with double ball bearing ISI mark with condenser A.C. 230V .50 c/s 1200mm. Sweep compete. Canopy and 30cms. Down rod erected on existing hook or clamp with 24/0.2 3 core flexible wire with earthing. (make shall be approved by E.I.C)- For Sales Cum Record Room	6	Each		
32.1	MCB Distribution Board- Providing and erecting sheet steel powder coated MCB distriiution board flush / or surface mounted fitted with bus bar neutral link earth bar and din rail conforming to is 13032 and BS 54861986 without MCB to house appropriate no of MCB ( the DBS should be used of same company of MCB to be used(I) Three phase 4way SS Double door for single phase outgoing horizontal box(1) for Canteen Building	1	Each		
32.2	-do- as item no. (32.1) as above but for Sales cum Record Room	1	Each		
32.3	-do- as item no. (32.1) as above but for e- gallery Building	1	Each		
33.1	Supplying & erecting Sheet Steel powder coated Cable end termination Box to be mounted on Top or Bottom of the MCB Distribution Box for housing/covering Extra wires & Cables, suitable for following size of MCB DB Box:- Three Phase 4 Way( 1) for canteen Building	2.00	Each		
33.2	-do- as item no. (33.1) as above but for Sales cum Record Room	2.00	Each		
33.3	-do- as item no. (33.1) as above but for e- gallery Building	2.00	Each		
34.1	supplying and erecting approved make R.C.C.B+MCB (Electro magnetic type only )working on residual current device having 6KA short circuit breaking capacity and 30mA sensitivity and 30mili sectripping time conforming to IS 12640 test knob facility trip free mechanisham operating for rated leakage at nominal ten voltcomplete erected including all material lug screw etc.completed -(d)6A to 25A ,4 pole three phase Cat.2 - (1) For Canteen Building	1.00	Each		
34.2	-do- as item no. (34.1) as above but for Sales cum Record Room	1.00	Each		
34.3	-do- as item no. (34.1) as above but for e- gallery Building	1.00	Each		
35.1	Providing and erecting medium voltage danger notice board sticker of standard size (1) For Cateen Building	1.00	Each		
35.2	-do- as item no. (35.1) as above but for Sales cum Record Room	1.00	Each		
35.3	-do- as item no. (35.1) as above but for e- gallery Building	1.00	Each		

36.1	Miniature circuit breaker single pole 6A to 32A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark. Details as per drawing and diagrams. Cat.III (1) For sales cum Record Room	8.00	Each		
36.2	-do- as item no. (36.1) as above but for (2) for E - gallery Building	6.00	Each		
37.1	Plastic enclosure fitted with DIN rail suitable for incorporating one / two nos. MCB-(1) For Sales cum Record Room	3.00	Each		
37.2	-do- as item no. (37.1) as above but for (2) for E - gallery Building	1.00	Each		
38.10	Providing & erecting 240V MCB double Pole Switch for motor & inductive load ( C curve ) having 10KA breaking capacity & confirms to IS: 8828 in existing box having following capacity 6 to 32 Amp. Cat III (1)- For Sales cum Record room	3.00	Each		
39.00	-do- as item no. (38.1) as above but for (2) for E - gallery Building	1.00	Each		
40.1	<b>AC Earthing</b> -Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications. For Electrical installation covering transformer neutrals, lighting arrester earthing, A.C.Plant & Sensitive computer system ( Like Automation, SCADA) i.e. independent earthing in normal soil. Length of pipe 3.00 mtr., back filling compound : 2 nos bags of 25 Kg.(1) For Sales Cum Record Room	1.00	No		
40.2	-do- as item no. (40.1) as above but for (2) for E - gallery Building	1.00	No		
41	Providing one bag of 25 Kg. Additional Back Filling Compound (BFC) suitable for safe earthing device (1) For Sales cum Record Room	1.00	No		
42	Providing and erecting required size HOT deep Galvanised iron strip for earthing of H.T. , OCB/ ACB/ Transformer LT panel board, Motors etc. using proper clamp. (i) 25 * 3 _ For Sales cum Record Room	20.00	Kg		
43.1	Providing and erecting HOT deep Galvanised iron strip wire 8 to 16 SWG.(i)10 G - For Sales Cum Record Room	5.00	Kg		
43.2	-do- as item no. (43.1) as above but for (2) for E - gallery Building	3.00	Kg		
44	<b>CABLES-</b> Providing and erecting XPLE(IS : 7098 )(1)-88 ISI armoured cables multistrand Aluminum conductor for 1.1KV to be laid on wall with necessary clamps or in existing trench/pipe of following size of cables- 3 1/2 core 50 sqmm ( 25 sq 1/2 mm core) For Sales cum Record room	250.00	Rmt		
45.1	Making trench in soft soil of suitable width of 90cms deep for laying cables or locating the fault all over the run and back filling the same and making the surface as normal ground - For Sales cum Record room	200.00	Rmt		
45.2	-do- as item no. (45.1) as above but for (2) for E - gallery Building	50.00	Rmt		
46.1	Making trench in Hard Murrum/Tar road of suitable width of 90 cm or required depth for laying any size of cable or locating the fault all over the run and back filling the same and making the surfaces as normal ground OR (B) If additional machineries like hammer driller or JCB use (Add)( Rate Only) - For sales cum Record Room	0.00	Rmt		
46.2	-do- as item no. (46.1) as above butwith machineries like Hammer driller or JCB use - Sales cum Record room	20.00	Rmt		















