					TENTATIVE BILL	OF QUANTITY FOR	2 X 5 MVA 33/11KV	PSS				
Α	В	С	D	E	F	G	н	I	l	К	L	М
					Supply	Rates			-	Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
A.0	33kV Bay (I/c + O/g)	Nos	2									-
A.1	33kV Bus Coupler with CT	Nos	1									
В	11kV O/G Feeder Bay	Nos	4									-
С	33kV transformer Bay	Nos	2									-
D	11 kV Transformer Bay	Nos	2									
E	11kV Bus Coupler Bay	Nos	1									
F	Station transformer	Nos	1									
	Type of INSULATORS to be used											
	Polymer Insulator											
	DETAIL REQUIREMENT (To be quoted)											
I	ELECTRICAL WORKS											
	Supplyof 33kV Equipments for (OUTDOOR AIS Sub-Station)											
1	30kV, 10kA, Metal Oxide, Class-2, Surge Arrester (for 33kV Incoming Line, HT side of 2nos. Power Transformers and 33/0.433kV Station Transformer) - Outdoor Type with Surge Counter	No.	15									
2	Center Rotating, 33kV, 1250A, 25kA, Beam Mounted Single Isolator (Motorised) Double break Double Tandem operating pipe With Earth Switch, Base channel, Post insulator (For Incoming Line) - Outdoor Type - Outdoor Type	Set	4									
3	Center Rotating, 33kV, 1250A, 25kA, Beam Mounted Single Isolator (Motorised) Double break Double Tandem operating pipe Without Earth Switch, Base channel, Post insulator (For Incoming Line) - Outdoor Type - Outdoor Type	Set	6									
4	33kV, 200A, Horizontal type AB Switch complete Set with post insulators, operating pipe, base channel etc (for Station Trf. 100KVA, 33/0.433kV)	Set	1									
5	33kV HG Fuse with horn gap, support insulator and channel (for Station Trf. 100KVA, 33/0.433kV)	Set	1									
6	33KV, 1250A, 25 KA/3 sec, Vacuum Circuit Breaker (Outdoor Type)	No	5									
7	Control Relay Panel for 33 KV Feeder Bay Vacuum Circuit Breaker (Inside Control Room)	No	3									

Α	В	с	D	E	F	G	н	I	J	к	L	м
					Supply	Rates			1	Erection Rates		I
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
8	Control Relay Panel for 33 KV Transformer Bay Vacuum Circuit Breaker (Inside Control Room)	No	2									
9	33kV, 400-200/1-1-1,25 KA/3 sec, 3 Core Single Phase Current Transformer (Outdoor Type)	No	15									
10	33kV, 2 Core, Single Phase, IVT (33/V3kV / 110/V3-110/V3V) (Outdoor Type)	No	6									
	Supply, Comissioning, Testing of 11kV Equipments (Indoor Type)											
11	9kV, 5kA, Metal Oxide, Surge Arrester with out surge counter(For Transformers & Out Going Feeders) - Outdoor type	No	18									
12	Center Rotating, 11kV, 1250A, 25kA, Out door Single Isolator Double break Double Tandem operating pipe With Earth Switch, Base channel, Post insulator (for out going Feeders)	Set	4									
13	11kV Indoor Air Insulated switchgear Panel consisting of Breaker-630A, Busbar- 1250A(Copper) & CT (400-200/1-1-1A) for Transformer Protection Relays to be installed on the panel, Multi- function Meter to be installed above the panel, Energy meter to be installed on the panel	No	2									
14	11kV Indoor Air Insulated switchgear Panel consisting of Breaker-630A, Busbar- 1250A (Copper), CT (400-200/1-1-1A) for Feeder protection Relays to be installed on the panel, Multi- function Meter to be installed above the panel, Energy meter to be installed on the panel	No	4									
15	11kV Bus-Coupler Indoor AIS Panel consisting of Breaker-630A, Bus-bar-1250A (Copper)	No	1									

Α	В	с	D	E	F	G	н	I	L	К	L	М
					Supply	Rates				Erection Rates	1	
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
16	11kV, 2 Core, Single Phase, IVT (11/V3 kV / 110/V3-110/V3V), 3nos in a set, in a separate draw out chamber with Digital Voltmeter inside Control Room separately for Bus-1 & Bus-2 plug in type with disconnector.	Set	2									
17	RTU & Accessories as per technical specification	Set	1									
18	Industrial Router and Accessories (Detailed Annexure-1)											
18.1	Supply of Industrial Router (Input Power 12VDC to 48 VDC) routers, Gigabit WAN 2 ports, 4 lan ports 10/100MBPS, 3G/4G/LTE support module). Along with Mounting Kit with SYears Warranty		1									
18.2	Ethernet switch, 24VDC to 48VDC, Fully Managed, Industrial Grade Ethernet Switch for Grid Substation. Ethernet Ports: 16 port (RJ45) Copper 10/100 MBPS, IEC61850 Compliant, with 5 Years Warranty		2									
18.3	Supply of 6U Rack along with necessary DC PDU and 20 Mtr power cables		1									
	Supply, Comissioning, Testing of Transformer											
19	5.0 MVA, 33/11kV Power Transformer DYn11 (OLTC, Outdoor Installation) with Accessories	No.	2									
20	100 KVA 33/0.433kV Energy efficient Station Transformer	No	1									
21	RTCC/TMU as per tech specs and scope of work	No	2									
Su	upply &Testing of Insulator & Hardware											
22	33kV 70 kN Polymer Disc Insulator String at 33kV Gantry, Bus (4 Nos of Insulator in one Tension String/Set)	Set	24									
23	33kV 70 kN Polymer Tension Insulator at 33kV Gantry, Bus	Set	18									
24	33kV Polymer Post Insulator at 33kV Gantry, Power Transformer	Set	12									
25	70 kN Polymer Tension Insulator at 11kV Out Going Feeder (2 Nos of Insulator in one Tension String/Set)	Set	12									

Α	В	с	D	E	F	G	н	1	J	к	L	м
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SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
26	4 bolted (M-16 U bolts) H/W fittings for 70KN insulators at 33kV side Suitable for ACSR Zebra	No	21									
27	4 bolted (M-16 U bolts) H/W fittings for 70KN insulators at 11kV side	No	12									
28	3 bolted (M-16) PG clamp suitable for ACSR Zebra (3 Nos. for 33 KV Bus to Stn Tr., 1 nos for each side of sectional Isolator in Bus system, 3 Nos. for 33 KV Bus to PT)	No	12									
29	3-bolted (M-16) PG clamp suitable for ACSR 232 sq. mm Conductor (For Isolator & Surge Arrester at 33kV side gantry, Surge Arrester at 33kV side of Power Transformer)	No	18									
30	3-bolted (M-16) PG clamp suitable for 100sqmm AAA Conductor (For Isolator & Surge Arrester) at 11kV side	No	36									
31	8 bolted (M-12) "T" clamp ACSR Zebra run & 232 mm2 drop	No	15									
32	8 bolted (M-12) "T" clamp 232 mm run & 232 mm2 drop	No	21									
33	ACSR Zebra Conductor for 33 kv Bus Stringing	Km	0.06									
34	AAAC 232 sq. mm Conductor for 33 kv Stringing from incoming gantry to bus bar and from bus bar to power transformer	Km	0.1									
35	148 sq. mm AAAConductor for 11 kV , Station Jumpering etc	Km	0.1									
	Supply, Supply of of Substation Earthing System GI											
36	(Supply of Earth Mat at a depth of 600mm including excavation ,soil treatment,painting etc as per specification) Earthing Conductor For Burial : 75X10 mm (5.89 Kg/Mtr.) GI Flat for Supply (spacing maximum 2m both ways)	Km	1.5									
37	Supply of Earthing Conductor: 50X6 mm (2.4Kg./Mtr.) GI Flat for Raiser from the burial earth mat to equipment, structure etc)	Km	1.2									

Α	В	С	D	E	F	G	н	I	J	к	L	М
	<u>ل</u>			E	Supply	-		•	, ,	Erection Rates	-	
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)		Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
38	Supply of Earthing Device & Associated Accessories (Heavy duty GI Perforated Pipe of ID=40mm & OD=50 mm with 3000mm long for treated Earth Pit) including excavation, soil treatment with Bentonite powder, supply of charcoal, etc and also making of earth chamber with brick masonary (1:5) , PCC (1:4:8) and with cast iron cover size of the pit 450mmX450mm X600 mm depth as per direction of Engg in Charge.	Set	50									
39	Flexible Cu. Earth bond 1cm dia & 500mm long, both end provision of socket suitable for M-16 bolts.	No	50									
	Supply of Switchyard GI Structures Column & Beam (with H-Type Pole) for 33kV side including Foundation Bolts & Nuts											
	Supply of Different Types of Columns With Details											
40	T-1 GI Column (for 33 kv incoming line & near Power Transformer) (7.25 mtr long, consisting of 2 Nos of 150X76X6.5 mm channel jointed by plates) Nominal Unit Wt - 0.35 MT	MT	1.05									
41	T-2 GI Column (for 33 kv incoming line & near Power Transformer) (7.25mtr long, consisting of 2 Nos 175X75X6 mm channel jointed by plates) Nominal Unit Wt - 0.42 MT	MT	0.84									
42	T-1A GI Column (for 33 kv Bus) (6 mtr long, consisting of 2 Nos of 150X76X6.5 mm channel jointed by plates) Nominal Unit Wt - 0.31 MT	MT	1.24									
43	T-2A GI Column (for 33 kv Bus) (6 mtr long, consisting of 2 Nos 175X75X6 mm channel jointed by plates) Nominal Unit Wt - 0.37 MT	MT	0.74									
44	T-3 GI Column Set including beam arrangement for 11 kv side of Power Transformer (one T-3 Column is 3.5 mtr long, consisting of 2 Nos 100X50X5 mm channel jointed by plates, 2 nos T-3 Column for one Transformer) Nominal Unit Wt of set - 0.27 MT	MT	0.54									

Α	В	с	D	E	F	G	н	1	1	К	L	М
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SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
45	GI Spikes with cone and GI (2 nos) base plate 10mm (50x2500 mm GI pipe) (Unit Wt=0.035 MT)	MT	0.385									
46	Supply of Different Types of GI Beam G-3 GI Beam(5.05mtr long, consisting of 2 Nos 150X75 X5.7mm channel jointed by plates) for 33kV incoming line - (2 nos. Beam- one for Surge Arrester another for Post Insulator, Nominal Unit Wt - 0.2 MT)	MT	0.4									
47	G-2 GI Beam (6.1 mtr long, consisting of 2 Nos 125X65 X5.3 mm channel jointed by plates) for 33kV Bus Stringing , Nominal Unit Wt - 0.175 MT)	MT	0.7									
48	G-1 GI Beam (4.5mtr long, consisting of 2 Nos 150X75 X5.7mm channel jointed by plates) (3 nos for 33kV Bus, 1 nos for mounting PT) (, Nominal Unit Wt - 0.17 MT)	MT	0.68									
49	R-1 GI Beam (6.1 mtr long, consisting of 2 Nos 125X65 X5.3 mm channel jointed by plates) for 33 kv LA , Post Insulator near Power Trf. (Nominal Unit Wt - 0.225 MT)	MT	0.9									
	Supply of Supply of Equipment Structures.(GI)											
50	For 33 KV Isolator (Unit Wt of Equipment Structures per set - 0.33 MT)	Metric Ton	2.64									
51	For 33 KV Vacuum Circuit Breaker (Unit Wt of Equipment Structures per set - 0.2 MT)	Metric Ton	0.8									
52	For 33 KV CT (Unit Wt of Equipment Structures per set - 0.285 MT)	Metric Ton	1.14									
53	GI foundation Bolt for above (32x1400mm for T2 & T2A , 32x1000mm for T1& T1A, 25x750mm for T3) with two nos Nut & 1 no 6mm flat washer, 10mm thick plate to be welded at the bottom	Metric Ton	1.0824									
	Supply of GI Nuts & Bolts											
54	GI Nuts & Bolts etc for column and beam & Equipment Structures	Metric Ton	0.4									

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					Supply	/ Rates				Erection Rates		
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55	Supply of GI Pipe with bend & socket set (Total 60 mm GI Pipe=50 Mtr & Bends= 10, Total 40 mm GI Pipe=28 & Bends=6)	Set	1									
56	Supply of CT & PT Console (GI)	Nos	5									
57	Supply of DP GI Structure for 11kV O/G feeder with supported Channel & Angle Arrangement for Installation of Isolator , Surge Arrester & provision for holding 11kV O/G -U/G Power cable,											
57.1	10 Mtr Long 160X160 GI WPB POLE (30.44 kg/mtr)	Nos	8									
57.2	Surge Arrester Arrengement (Unit Wt=0.03183 MT)	MT	0.50928									
57.3	75x40x4.8 mm Channel (7.14kg / Mtr) (3.330Mtr - 02nos per DP) (Unit Wt=0.0.02377 MT)	MT	0.19016									
57.4	50x50x6mm Angle (4.5kg / Mtr) (5.1Mtr - 02nos per DP) (Unit Wt=0.02295 MT)	MT	0.1836									
57.5	125x70x5 RS GI joist 8Mtr (13.3kg / Mtr) (02 no) for supporting of 11kV Cable for O/G feeder per DP (Unit Wt=0.1064 MT)	Nos	8									
57.6	(100 x 50 x5 mm) GI Channel (9.56kg / Mtr) (1Mtr - 04 nos) for supporting of 11kV Cable for O/G feeder per DP (Unit Wt=0.00956 MT)	MT	0.15296									
58	Supply of Material for DP GI Structure for Station Transformer											
58.1	(100 x 50 x5 mm) Channel (9.56kg / Mtr) (4.5 Mtr - 06nos per DP) (for Cantilever arrangement for mounting AB Switch, HG fuse) (Unit Wt=0.04302 MT)	MT	0.258									
58.2	LTDB for 100KVA, 33/0.433kV Station Transformer	Nos	1									
	Supply of Materials for Installation of Power Transformer on Plinth											
59	90 lb Rail 5.4 mts (2.7x2) 44.62 kg per mtr / Transformer each (Unit Wt=0.240 MT) Supply of rail track Including fabrication, welding & grouting with out supply of rails for all types of Transformers.	Nos	2									

Α	В	с	D	E	F	G	н	I	J	К	L	М
					Supply	/ Rates			•	Erection Rates		
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60	Supply including Fabrication works (Cutting, welding& Supply in position etc) (300x300x10) mm Gl plate 12 nos / Transformer each (Unit Wt=0.007065MT)	Nos	24									
61	Supply including Fabrication works (Cutting, welding& Supply in position etc)) (65x65x5) mm GI angle of 5.4 mts length.4.9 kg/mtr. / Transformer each (Unit Wt=0.026 MT)	Nos	2									
62	Supply of 11kV Power Cables											
62.1	3Core x 400sq mm for transformer to Indoor Panel 40 Mtr (with one Spare for both)	Km	0.12									
62.2	3Core x 300sq mm for Indoor Panel to O/G Feeder 40 Mtr (with one Spare for all)	Km	0.2									
63	Termination of Out door Heat Shrink type Cable termination kit (for 11kV HT Cable))											
63.1	3Core x 400mm2, 11kV Transformer (one spare)	No	3									
63.2	3Core x 300mm2, 11kV O/G Feeder (one spare)	No	5									
64	Termination of In door Heat Shrink type Cable Termination kit (For 11kV HT Cable)											
64.1	3Core x 400mm2, 11kV for Transformer Panel	No	3									
64.2	3Core x 300mm2, 11kV for O/G Feeder Panel	No	5									
65	Supply of Control Cables											
65.1		Km	2									
65.2		Km	1									
65.3		Km	0.5									
65.4		Km	0.5									
65.5	1 Core x 16 mm2 (Battery to Battery Charger & Battery Charger to DCDB)	Km	0.3									
<u>66</u>	Supply of 2 tier 2 rows cable trench (internal width 1500 mm, depth 680 mm, with 75X75X6 mm support angles fixed RCC column of 250 X 250 mm & with ladder type cable tray (45X45X5mm two angles at both side having welded flats of 25X5 mm at a gap of 150mm) for Power & control Cable	Mtr	40			1						

Α	В	с	D	E	F	G	н	1	J	к	L	М
		-	_		Supply				-	Erection Rates		
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66.2	Supply of 2 tier 1 rows cable trench (internal width 750 mm,depth 680 mm, with 65X65X6 mm support angles fixed RCC column of 250 X 250 mm & with ladder type cable tray (45X45X5mm two angles at both side having welded flats of 25X5 mm at a gap of 150mm) for Power & control Cable	Mtr	35									
66.3	Supply of 2 tier 1 rows cable trench (internal width 500 mm,depth 580 mm, with 50X50X6 mm support angles fixed RCC column of 250 X 250 mm & with ladder type cable tray (45X45X5mm two angles at both side having welded flats of 25X5 mm at a gap of 150mm) for Power & control Cable	Mtr	35									
66.4	Supply of chequerred plate 1000X300X5.6mm thick for 12 Mtr Cable Trench in side Control Room	Metric Ton	0.638									
67	Supply of 1.1 kV XLPE Power Cables											
67.1	XLPE 4 Core x 120 mm2 (for Station Transformer)	Km	0.15									
67.2	XLPE 4 Core x 95 mm2 (for Oil Filtration Machine Connection)	Km	0.1									
67.3	XLPE 4 Core x 25 mm2 (for Switchyard Lighting)	Km	0.3									
67.4	XLPE 4 Core 16 mm2 (for Switchyard Lighting)	Km	0.3									
67.5	XLPE 2 Core 16 mm2 (for Switchyard Lighting)	Km	0.3									
68	Supply of Battery & Battery Charger											
68.1	48 V, 100 AH, maintenance free VRLA Battery (Set. 4 Nos of 12V Battery)	Set	1									
68.2	48V, Float cum Boost Battery Charger (15 A float charging, 20 A boost charging)	No	1									
	Supply of Sub-station Lighting											

Α	В	С	D	E	F	G	Н	I	J	к	L	М
		-			Supply					Erection Rates		
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69	Sub-Station Switchyard Lighting , Control Room Lighting (it includes supply of fixtures & Lamps (LED) with switch gear, Gl Conduit etc.(120Wx 4 sets and 100Wx6 sets out side the control room, 18 Watt LED tube inside control room .Control Room wiring to be done with Copper wires as per the requirement (Lighting fixtures are to be fixed rigidly on the Column at a suitable height with Gl tubular pole so that the required lux as per the technical specification is maintained). Gl Tubular pole -10No's., 2x18watt-24No's., 1x18watt- 18No's., as per technical specification and scope of work.	Lot	1									
70	1.5 Ton capacity Split Air Conditioning units with Remote control facility: Including supply of split Air conditioner 5 Star rated, voltage stabiliser, control boxes (25Amp MCCB & 25Amp switch), Remote etc. for completing the A.C scheme of control room. Each AC will have its own control through respective switch, as per technical specification and scope of work.	No	6									
71	1400 mm sweep 250Volt A/C Celling Fan with Regulator, as per technical specification and scope of work.	No	6									
72	Supply of 300 mm sweep 70W A/C Exhaust Fan	No	4									
73	Supply of Fire Fighting System (portable and wheel mounted sets for control room)											
73.1	Foam type- 9 Ltrs	No	2									
73.2	CO ₂ - 4.5 Kgs	No	2									
73.3		No	2									
73.4	Fire Bucket with Stand (4nos. in each Stand)	Set	1									
73.5	NIDS System for PTR as per tech specs and scope of work		2									
74	Supply of AC & DC System											
74.1	AC System											
	ACDB (as per specification)	Lot	1									
74.1. 1	Main Lighting Distribution Board (as per specification)	Lot	1									
74.1. 2	Indoor Lighting Distribution Board as per specification	Lot	1									

Α	В	с	D	E	F	G	Н	I	J	к	L	м
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74.1. 3	Receptable Panel near Power Transformer	No	1									
74.2	DC System											
74.2. 1	48 V DC Board as per specification .	No	1									
75	Supply of of Maintenance Testing Equipment	Lot	1									
76	Supply ofTools and Plants (T&P's) Requirement	Lot	1									
1	Excavation in all types of ordinary soils / hard murrum including all necessary permissions, dewatering, depositing / stacking of all materials, removal of vegetation, backfilling with excavated earth in layers, well watered, compacted, transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth within a basic lead of 100 mtrs as directed for a depth from 0.0 to 3.0 mtrs	М3	1300									
2	Providing cartage service and transporting, excavated soil, debris, bricks, concrete, scrapwood including loading and unloading and disposing off to dumping sites approved by statutory bodies outside premises including submission of relevant documents, as applicable outside the station premises . (Note. Payable measurement shall be dismantelled qty. (Voids to be deducted as applicable whenever heap / truck mesurements are taken))	M3	80									
3	Levelling & Dressing upto 150mm Levelling & dressing the ground in proper slope and camber including cutting and filling the area depth exceeding 75mm but upto 150mm & disposing the surplus soil if any upto a distance of 1 KM as per the instruction provided	M2	250									
	Civil Works											
	Civil Wester											

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					Supply	/ Rates			1	Erection Rates	L	
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
4	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M20 with required slump for Raft / footings at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER	МЗ	120									
5	directed by the ENGINEER Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M20 with required slump for Pedestals, columns, walls at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEEP	M3	145									
6	ENGINEER Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M20 with required slump for Beams / slabs at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing, including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER	M3	40									

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	ت			-	Supply		1 11			Erection Rates	£	
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)		Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
7	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Raft / footings at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing, including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER	M3	60									
8	directed by the ENGINEER Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Pedestals, columns, walls at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER	M3	85			1						1
9	ENGINEER Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Beams / slabs at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing, including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER.	M3	90									

Α	В	С	D	E	F	G	н	I	J	К	L	М
					Supply	y Rates				Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
10	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Pardis / Fins at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing, including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER. Extra for shuttering work where floor	МЗ	1									
11	extra for snuttering work where hoor height is more than 3.5M over and above concrete item due to extra scaffolding work compared to normal height slab.	M2	100									
12	Supplying, Providing and laying in position plain cement concrete of grade M10 machine mixed, vibrated and placed to correct line and level in levelling course/fill under or around foundations pits, slabs on grade, sumps, soak pits, etc. at any depth with 30 mm down graded coarse aggregates including curing, compacting, de- watering wherever necessary, providing marine plywood shuttering form work wherever required etc. complete. (Min cement content 210Kg/m3)	M3	65									

Α	В	С	D	E	F	G	Н	I	J	К	L	м
	_	-			Supply		1		-	Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
13	Supplying, Providing and laying in position plain cement concrete of grade M15 machine mixed, vibrated and placed to correct line and level in levelling course/fill under or around foundations pits, slabs on grade, sumps, soak pits, etc. at any depth with 30 mm down graded coarse aggregates including curing, compacting, de- watering wherever necessary, providing marine plywood shuttering form work wherever required etc. complete. (Min cement content 300 Kg/m3)	M3	115									
14	Providing and fixing precast reinforced concrete cable trench covers, drain covers, fencing post, etc of class M25 concrete w/c 0.5 (max) leaving cutouts/ pockets, placing of inserts/ embedments, etc., complete all as per drawing including shuttering, vibrating, machine mixing, providing lifting arrangements, placing inserts curing handling, transporting, etc. complete but excluding the cost of providing reinforcement, inserts / embedments, with 30 mm downgraded aggregates. (Cement consumption 7.9 Bag/M3)	МЗ	11									
15	Providing and applying Antiweed treatment using approved make chemicals as per manufacturer's specifications & as per direction of Engineer in charge. The contractor shall be required to maintain the area free of weeds for a period of TWO year from the application of last dose of antiweed chemicals. Contractor shall be required to give necessary Bond / Gurantee for performance of the work done by him. This item shall be inclusive of all required manpower, machineries, materials, tools and tackles inlcuding all leads and lift, loading unloading etc. a compolete job as directed by Engineer In Charge.	M2	600									

Α	В	с	D	E	F	G	н	1	J	к	L	М
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SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)		Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
16	Providing and laying BBCC 1:5:10 (1cement : 5 fine sand : 10 burnt brick aggregates) in substation area, over prepared sub-grade including side centering, shuttering, laying, spreading, ramming, consolidating, curing etc. Necessary / specified slope shall be provided for easy drainage of water. The rate quoted shall also include laying slurry using CM 1:6 (1 cement : 6 fine sand) uniformly laid over BBCC layer to get finished smooth surface, complete as per instructions of Engineer-in-charge. BBCC shall be laid in pannels of appx. size 4.0 mtr. x 4.0 mtr. or as per the instruction of Engineer in Charge and concreting shall be laid when subgrade is in moist condition	M2	600									
17	Providing and laying of gravel using uncrushed / crushed / broken stone of 40 mm nominal size (ungraded single size) conforming to table 2 of IS : 383-1970. The material laid shall be spread uniformly to achieve required thickness of final 100 mm thick compacted layer etc. complete as directed by the Engineer - in- charge.	М3	84									
18	Providing all the materials including binding wires, cleaning, bending, cutting, hoisting, placing in position, lapping and binding with 16 SWG annealed soft iron wire or tack welding reinforcement steel for all types of RCC / Precast work irrespective of locations & levels all as per drawings including steel scaffolding, handling and transporting from site stores, complete as directed by using High yield strength deformed bars conforming to IS 1786 - HYSD Bars		42									
19	Providing all material and constructing brick masonry 230mm. thick and above in cement mortar (1:5) using approved quality, class 50 conforming to IS:3102 table moulded bricks, including leaving inserts / pockets, steel scaffolding, curing, raking joints, etc.	М3	272									

Α	В	с	D	E	F	G	н	I	L	к	L	м
					Supply	y Rates				Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
20	Providing all material and constructing brick masonry 115 mm. thick and in cement mortar (1:4) using approved quality, class 50 conforming to IS:3102 table moulded bricks, including leaving inserts / pockets, steel scaffolding, curing, raking joints, etc. Any reinforcement required to be placed shall be paid separately in reinforcement item of this BOQ.	M2	42									
21	Providing and fixing Chicken-mesh of 1.5 mm dia steel wire with hexagonal or rectangular openings of 20-25 mm 150 mm wide fixed with U nails 150 mm centre to centre placed and held properly in position at brick and R.C.C joints as per direction of engineer-in-charge.	Sqm	150									
22	Providing all materials and carrying out sand faced plaster 18 mm thick in sigle layer and plastering external surfaces of concrete and brick work such as walls, columns, beams etc. with 1:4 cement mortar, including providing & erecting steel scaffolding, hacking of concrete surfaces, curing including bands, drip moulds, grooves, etc. complete with 2% Accoproof or approved waterproofing compound	M2	1925									
23	Providing and plastering internal surfaces of concrete and brick work such as walls, ceilings, columns, beams, etc. with cement mortar 1:4, including providing and erecting steel scaffolding, hacking concrete surface, providing bands, grooves drip moulds, curing, etc - 12 mm thk	M2	685									

Α	В	С	D	E	F	G	н	I	J K	L	м
					Supply	y Rates			Erection Rates	1	
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%) Total Erection uni rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
24	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales, making the surface to receive exterior quality paint, Applying a coat of approved Primer and Two Coats of Paint. Including necessary scaffolding / staging etc. complete as directed. Paint shall be of First Quality Manufactured by Asian / Burger / Shalimar paints Exterior quality Plastic Emulsion paint	M2	1480								
25	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales, making the surface plain by applying putty, Applying a coat of approved Primer and Two Coats of Paint. Including necessary steel scaffolding / staging etc. complete as directed. Paint shall be of First Quality Manufactured by Asian / Burger / Shalimar paints Synthetic Enamel Paint	M2	345								
26	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales, making the surface plain by applying putty, Applying a coat of approved Primer and Two Coats of Paint. Including necessary steel scaffolding / staging etc. complete as directed. Paint shall be of First Quality Manufactured by Asian / Burger / Shalimar paints Internal quality Plastic Emulsion paint	M2	680								

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					Supply	Rates			1	Erection Rates	L	
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
27	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels Granite of any colour and shade. Area of slab over 0.50 sqm.	M2	27									
28	Providing and fixing first quality non-skid ceramic tiles (1st Quality) of Kajaria / Nitco or equivalent tiles approved by owner to match existing shade in floor & dado, laid to line and level on cement mortar 1:5 bedding of average thickness 40mm , floated with matching cement etc. complete of size (300mm X 300mm). Rate shall be inclusive of one coat of rough plaster to receive dado tiles.	M2	6									
29	Providing and fixing first quality Coloured glazed tiles (1st Quality) of Kajaria / Nitco or equivalent tiles approved by owner to match existing shade in floor & dado, laid to line and level on cement mortar 1:4 bedding upto 40mm , floated with matching cement etc. complete of all sizes upto 300 x 600. Rate shall be inclusive of one coat of rough plaster to receive dado tiles.	M2	25									
30	Providing and fixing first quality ceramic vitrified tiles (1st Quality) of Kajaria / Nitco or equivalent tiles approved by owner to match existing shade in floor laid to line and level on cement mortar 1:4 bedding upto 75mm , floated with matching cement etc. complete of size 600 x 600.	M2	185									

Α	В	с	D	E	F	G	н	I	J	К	L	м
					Supply	Rates			-	Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
	Providing steel and supplying all material,											
31	fabricating and erecting structural steel work at all heights including steel scaffolding for roof trusses, purlins, beams, columns, chequered plate flloring, treads, risers, stringers, bracings, runners etc. at all heights including welding and gas cutting, drilling of holes etc. complete as per the approved drawing or as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of MS bolts, and nuts, and washers and applying one coat of Shalimar or any other approved	то	7.5									
32	Providing, fabricating and erecting 6 / 8 / 10 mm thick aluminum Chequered plate for platform, flooring, treads, risers, stringers, bracings, runners etc. at all heights including straightening, cutting, grinding, drilling of holes or other lifting arrangements, etc. complete as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of bolts, and nuts' washers and other fixtures etc. complete.	MT	0.5									
33	Providing and fixing powder coated aluminum doors part panelled and part louvered or glass 8mm thick (for all sizes) Main frame shall be made out of Hollow extruded sections of size 100mm x 75mm x 14 gauge. The louvers shall be made of 5.5mm thick wire glass slided inside suitable aluminum 14 guages channels fixed to main frame by 2 nos. 4 mm aluminum rivets fixed at 45 deg etc. complete.	M2	16									
34	Providing, stretching and fixing chain link fencing 2" square and of gauge 10 (bare metal thickness) on angle posts with heavy duty GI split pins etc. in position complete as directed at all Heights including steel scaffolding.	M2	150									

Α	В	С	D	E	F	G	н	I	J	К	L	м
					Supply	/ Rates				Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
35	Providing and fixing G I barbed wire of 10 guage along the boudary wall / fencing on angle iron post with all necessary fitting such as welding of nuts, bolts, clips, split pins, manpower etc.complete	м	150									
36	Providing and fixing concertina coil of 610 mm dia., 80 Nos. of circles, 200 Nos. of clips, hot dip galvanized. The wire shall be of 12 SWG tensile wire, covering 10 RM with one coil, each RM will have 8 Nos. of circles, including labour, fixing in position on existing V shaped angles including 2 nos. of guard wires and painting with 2 coats of Bus green paint complete at all heights including scaffolding.	М	150									
37	Hiring JCB with operator & helper including fuel and carrying out the work as directed by Owner's site manager.	SFT	4									
38	Providing, Fabricating and erecting MS gates consisting of MS hollow rectangular or square box sections with 6mm to 8mm thk. MS joining plates, including welding of sections as per design approved by the Owner. Fabricating the framework with necessary hinges, locking arrangement including applying synthetic enamel paint of approved make over one coat of primer. Contractor shall use his own welding set, gas cutting set, gas, electrodes and other accessories, steel scaffolding required to complete the entire job. All hollow box steel section shall be of primary manufacturer and confirm to IS 4923	MT	0.85									
39	Providing and fixing CP jet spray size 12mm dia. of approved make with ISI mark	NO	1									

Α	В	с	D	E	F	G	н	I	J	К	L	М
		-			Supply					Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
40	Providing & replacing existing damaged pipe with C class G.I. pipe to correct line and level including providing all materials such as C class pipes and required fittings, carrying out necessary excavation, backfilling & ramming after testing etc. complete for 12mm Dia.	Μ	3									
41	Providing & replacing existing damaged pipe C class G.I. pipe to correct line and level including providing all materials such as C class pipes and required fittings, carrying out necessary excavation, backfilling & ramming after testing etc. complete for 19mm Dia.	М	7									
42	Providing and fixing 100 x 80mm PVC deep seal Nahani Trap of insect proof type with PVC heavy grating and frame as directed	No	2									
43	Providing and fixing white vitreous china pedestal type Europen water closet (Hindware make:Constellation set white) with seat & lid,10 litres flushing cistern & manually controlled device confirming to the IS-7231 with all fittings & fixtures complete including cutting and making good the walls and floors wherever required.WC pan with ISI marked white sloid plastic seat & lid heavy duty (HINDUSTAN/Parryware MAKE)	EA	1									
44	Providing lip type urinal and flushing valve and bottle trap, lead and GI pipe connections overflow outlet pipes with mosquito proof cover including providing all the materials. etc. complete. (HINDUSTAN/Parryware MAKE)	EA	1									
45	Providing and fixing brass connecting rod with PVC ball cock etc. and of 1st quality and of ISI approved make Ball cocks 19mm Dia.	EA	1									

Α	В	с	D	E	F	G	н	I	у к	L	м
		-			Supply	Rates			Erection Rates		
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46	Removing , providing & fixing white glazed wash basin flatback confirming to IS 2556 (Part IV) of approved make including providing wash basin, C.I brackets, fixed to the wall with rawl plug bolts & screws and painted in two coats of white zinc paint over a coat of red oxide primer, with 15mm C.P. pillar tap as per IS 1795 (1 No.) of approved make, plug & C.P chain, 50mm dia. mosquito proof gratings, 32mm dia. C.P. waste pipe, brass stop cock as per IS 781 of bottle trap with C.P pipe pieces upto wall or floor level plus 40mm lead, waste pipe embedded floor from 32mm CP waste extension pipe to the CI waste shaft on the outside wall. complete with brass union	EA	1								
47	Providing and fixing heavy duty CP Jali for nahni trap as directed of size 100mm dia.	EA	2								
48	Providing and fixing 100mm dia CP shower with 300mm long arm .	EA	1								
49	Providing and fixing heavy duty CP concealed bib cock size 12mm dia. of approved make with ISI mark as directed.	EA	2								
50	Providing and fixing heavy duty PVC soap dispenser of standard size .	EA	1								
51	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. Work includes removal of existing damaged valve etc. complete as directed. (New or Equipment) Size 25 mm dia.	No	2								
52	Providing & replacing damaged pipe with heavy duty CPVC pipes to correct line and level including providing all materials such as C class required GI fittings, carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme for 25 mm dia	М	20								

Α	В	с	D	E	F	G	н	I	J	К	L	Μ
					Supply				4	Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
53	Providing & replacing damaged pipe with heavy duty CPVC pipes to correct line and level including providing all materials such as C class required GI fittings, carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme for 75 mm dia	М	5									
54	Providing & replacing damaged pipe with heavy duty PVC pipes to correct line and level including providing all materials such as C class required GI fittings, carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme for 110 mm dia Type B	М	10									
55	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Litre	1000									
56	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm) with necessary accessories and screws etc. complete. This item will cover a performance guarantee of 1 year, during this Guarantee period if any malfunctioning is observed the same shall be attended by the vendor within 2 day	EA	6									
57	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	Ea	6									

Α	В	с	D	E	F	G	н	I	J	к	L	М
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58	Supplying all materials, fittings and fixing Towel Rail, Make:Jaquar, ACN-1111SM ,600mm long	Nos	1									
59	Providing and fixing 550 mm dia round shaped mirror above wash basin, 8mm thick mirror with ¾" bevelling all four sides of make Saint Gobain, Modi, AIS, HNG fixed with either mirror screws or SS studs approved make and colour including all material, tools, tackles etc complete. area of finished glass shall be considered for payment.	nos	1									
60	Providing and fixing stainless steel tower bolts with necessary screws etc. complete. 200 mm on existing door	EA	8									
61	Providing & fixing stainless steel Door stopper with necessary screws etc. complete. Twin rubber stopper. on existing door	EA	6									
62	Providing and fixing stainless steel door handel with necessary screws etc. complete 150 mm on existing door	EA	12									
63	Providing and fixing fully glazed sliding POWDER COATED windows. Outer frame shall be of size 100 mm x 45 mm x (14 guage) anodised INDAL section of min. weight 6 Kg / 12' length. The 3 track Box Section (20 mm Series) Indal shall consist of a) Bottom rail size 90 mm x 45 mm (14 guage) of min. weight 5.5 Kg / 12' length. b) Sides and top rail 90 mm x 32 mm (15 guage) of min. weight 3 Kg / 12' length, and panelled with approved 5.5mm thick clear or opaque glass. including civil works for filling any gaps between the frame and the wall with cement mortar 1:1 and restore the same original condition neatly.	M2	18									

Α	В	с	D	E	F	G	н	I	J	К	L	Μ
					Supply	Rates				Erection Rates		
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64	Providing all materials ,tools, tackles such as wire brush, putty blade,sand paper etc. for removing all loosely adhering material from the internal surface of existing wall, ceiling , plastered surface etc. & ensuring substrate should be clean, free from dust, grease & loose material. Moisten the wall with sufficient quantity of clean water prior to application of 1st coat of Birla White Wallcare Putty or equivalent. Allow the 1st coat surface to dry for at least 3 hrs after that rub the surface gently with the putty blade in order to remove all loose particles. Apply 2nd coat of putty, allow the surface to dry for 10-12 hrs after that rub the surface gently with the putty blade in order	M2	600									
65	Providing & laying hume pipe 300 mm Dia confirming to IS 458 (Class NP3) in line and level in required slope or as directed including providing all materials pipes etc., cement jointing the collars with 1:1 cement mortar including 50mm thick and sufficient wide (to cover at least 25 mm beyond the joint), M 10 concrete below joints but excluding excavation .	М	20									
66	P & L Granular Sub base. Providing & Laying, spreading & compacting specified crushed stone in granular sub base course including premixing the material in mechanical Mixer (Pug mill) transportation of mixed material laying in uniform layer of 150mm (Compacted to 100mm thickness)	M3	36									

Α	В	С	D	E	F	G	н	1	l	к	L	М
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SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
67	Supplying, diluting and injecting chemical emulsion PRE CONSTRUCTIONAL ANTI- termite treatment and creating a continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits etc. complete as per IS codes & specifications (plinth area of the building at ground floor only shall be measured for payment) a) Chlorphyriphos Emulsifiable concentrate 20% with 1% concentration	M2	165									
68	Providing and fixing on wall face unplasticised - Rigid PVC rain water pipes confirming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes including all fittings, clamps, spacer etc 110 mm dia	Μ	30									
69	Extra for neat cement punning on alltype of plaster or concrete work at all levels and locations.	M2	370									
70	Providing and laying at or near ground level factory made kerb stone of M-20 grade cement concrete in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5 mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-Charge. (Precast C.C. kerb stone shall be approved by Engineer-in-Charge). size: 300x125x325mm	RMT	60									

Α	В	с	D	E	F	G	Н	1	J	к	L	м
	_	-	-		Supply					Erection Rates		
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71	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x 2mm and braced with flat iron diagonals 20x5 mm size with top and bottom rail of T- iron 40x40x6mm with 40mm dia, steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles including applying a priming coat of approved steel primer.	M2	15									
72	 Drilling of 300mm dia. Bore with hydraulic rig including cost of drilling borewell in all kinds of soil and rock in both rural and urban area for installation of submersible/jet pump set with all complete including supplying all materials tools, drilling rig, Air compressor and equipments, as well as fuel, lubricants and cost of transportation of rig machine and other required vehicle up to the site. 1. Item should be inclusive of supply and installation of PVC heady duty rigid pipe of 150mm dia (Min. 4Kg/Sqcm pressure rating) and accessories including cutting, jointing and lowering, covering all the holes with heavy duty MS lali and filled with 	Each	1									
73	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 2X1.5 + 1X1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required Group A	Point	50									
74	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel / PVC conduit as required. 3 X 1.5 Sqmm	Μ	75									

Α	В	С	D	E	F	G	Н	I	J	К	L	М
					Supply	Rates			1	Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
75	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel / PVC conduit as required. 3X 2.5 Sqmm	М	350									
76	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel / PVC conduit as required. 3X 4 Sqmm	М	180									
77	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 20 mm	М	375									
78	Supply and fixing of 6/16 Amp switch, sockets of MK make modular type in PVC/GI box complete in all respects with testing & commissioning.	EA	18									
79	INDUSTRIAL SOCKET OUTLETS (25/32A DPMCB) Supply, installation, testing & commissioning of industrial type plug and socket outlet with SP/TPN MCB (10 KA motor duty) mounted on a sheet steel enclosure including termination, earthing etc as required . (b) Supply and fising of 25/32 Amp DP MCB (C series) of approved make in MS enclouser	EA	1									
80	Supplying and fixing TP sheet steel enclosure on surface/ recessed along with 16/25/32amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	EA	8									
81	Providing and fixing following rating and braking capacity and 3 pole MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.125 Amp, 16 KA,TPMCCB	EA	1									

Α	В	С	D	E	F	G	Н	I	١	К	L	М
					Supply	/ Rates				Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
82	Supplying and fixing following way prewired SP&N MCB distribution board of steel sheet for 240 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator) 8 way, Double door	EA	1									
83	Supply, laying & fixing of following sizes of Cu/GI strip/wire clamped to walls, cable trays etc for equipment/System earthing complete as required including inter connection between length at joints, all fixing accessories saddles, clamps etc and other fixing hardware material as required for proper installation.8 SWG G.I Wire	М	40									
84	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	ST	1									
85	Supply and making end termination with brass double compression glands and aluminium lugs for PVC insulated and PVC sheathed aluminium conductor cable of 1.1 KV grade of the following sizes as required:- 4 C x 10 Sq.mm	ST	2									
86	Supplying & Installation of lighting fittings/ fixtures complete with special electronics low loss ballast/ lumilux tube/ lamp/ condenser/ starter /louvers/ reflector/cover etc. complete as required:- Recessed mounted fitting with 1 x 12 Watt, LED Light (Make:-Philips CAT No. DN192B- LED9S-6500 PSU WH) or equivalent.	EA	15									

Α	В	С	D	E	F	G	н	1	J	к	L	м
	5		-	-		/ Rates		•	-	Erection Rates	-	
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
87	Supply & Fixing decorative Gate Lamp including cable & switches complete in all aspect.	Nos	2									
88	Supplying & Fixing LED street Light 60 Watt with bend pipe, clamps in all aspect as per direction of engineer in charge	EA	12									
89	Supplying and fixing of exhaust fan with louvers and bird screen of PVC body in existing opening with 900 rpm (Approved make) b) 305 mm dia	EA	2									
90	Manual Call Box Providing & Fixing of manual call box in suitable enclosure with arrangements to raise the alarm when the glass is manually broken, complete as required	EA	1									
91	Electronic Fire Hooter Providing & Fixing electronic fire hooters of 120dB sound level, suitable for mounting, complete as required.	EA	2									
92	Blinking Type Photoelectric Smoke Detector Providing & Fixing of Blinking type photo Electric type Smoke Detector with mounting base etc. complete as required.	EA	8									
93	Supplying, installing, testing and commissioning 4 zone Main Control Panel with zone indication. The panel shall include solid state circuits, battery charger, batteries etc. and fire/fault/test positions selector switches, zone isolation facility etc. complete as required.	EA	1									
94	Supply and fixing of Tube light of 20W/28W as per direction of engineer in charge	EA	25									
95	Supply and fixing of Wall fan of approved make 2100 RPM of approved brand as per certified by engineer in charge.	Each	2									
96	Supply and installation of 10sqmm cable connecting main switch to DPMCB of approved brand as per certified by engineer in charge.	RM	80									

Α	В	С	D	E	F	G	н	I	J	К	L	М
					Supply	y Rates				Erection Rates		
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)
97	Supplying and fixing following rating, Four pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps	EA	2									
98	Supplying and fixing following rating, Four pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. 100 amps	EA	1									

	Items not listed above but required (as per Bidders)												
SI. No.	Item description	UoM	Quantity For Individual PSS	Unit rate for supply	Applicable GST (%)	Total supply unit rate (E+F)	Total supply value (G x D)	Unit rate for Erection	Applicable GST (%)	Total Erection unit rate (I+J)	Total Erection value (K x D)	Total Value (H+M)	
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