MALAVIYA NATION AL INSTITUTE OF TECHNOLOGY JAIPUR ESTATE SECTION

Estimate

Name of Work: Electrical work for the construction of Shopping complex in MNIT Jaipur.

PART A (G SCHEDULE)

G 3.7		** *:	OTTE	.	
S.No.	Particulars	Unit	QTY.	Rates	Amount
	S&F following sizes (dia.) of ISI marked medium duty PVC conduit				
	along with accessories in surface / recessed using saddles, clamps,				
1	fastener as required including cutting the wall, covering conduit and				
1	making good the same as required. (Make: AKG, BEC, Precision,				
	Polypack, Polycab)				
1.1	20 mm	R. mtr.	320.0	32.00	10240.00
1.2	25 mm	R. mtr.	500.0	42.00	21000.00
	Wiring of light point/ fan point/ exhaust fan point/ call bell point with 1.5				
	sq. mm nominal size FR PVC insulated unsheathed flexible copper				
	conductor 1.1 kV grade and 1.5 sq. mm nominal size FR PVC insulated				
	unsheathed flexible copper earth conductor 1.1 kV grade (IS:694) of				
	approved make in surface / recessed ISI marked medium duty PVC				
2	conduit & it's accessories, round tiles, Hot Dipped Galvanized Modular				
	Box with earth terminal, 6 A Modular switch, Modular plate with grid plate, screws, making connections, testing etc. as required. (Make				
	BSR Group-1)				
	BSK Group-1)				
2.1	Medium point (up to 6 mtr.)	P. point	22.0	377.00	8294.00
2.2	Long point (up to 10 mtr)	P. point	58.0	508.00	29464.00
	Supplying and drawing FR PVC insulated & unsheathed flexible copper				
	conductor ISI marked (IS:694) of 1.1 kV grade and approved make in				
3	existing surface or recessed conduit/casing capping including making				
	connections etc. as required. (RR Kabel, National, Finolex)				
3.1	2 x 2.5 sq. mm. + 1x1.5sqmm	Mtr.	400.0	53.00	21200.00
3.2	2 x 4.0 sq. mm. + 1 x 2.5 sq. mm.	Mtr.	600.0	77.00	46200.00
3.3	2 x 6.0 sq. mm. + 1 x 2.5 sq. mm.	Mtr.	400.0	109.00	43600.00
3.4	1 x 10.0 sq.mm	Mtr.	50.0	78.00	3900.00
	P&F 240/415 V AC MCB with positive isolation of breaking capacity				
	not less than 10 KA (B/ C/ D tripping characteristic) ISI marked IS				
	8828(1996)]/ conforming to IEC 60898 in existing board/sheets				
4	including making connections with lugs, testing etc. as required. (Make:				
	Schneider (neo break), Siemens, HPL, GE, Standard,				
	Indoasian(gold), Havell's, C & S, ABB (S270))				
4.1	Cinale nele MCD				
4.1 a	Single pole MCB 0.5 A to 5 A rating	Each	6.0	206.00	1236.00
b b	6 A to 32 A rating	Each	78.0	151.00	11778.00
4.2	Triple pole MCB	Each	70.0	131.00	11776.00
a	40 A 63 A rating	Each	4.0	1034.00	4136.00
-	P&F 240/415 V isolator conforming to IS:13947-III/ IEC 60947-3 on	Lucii	7.0	1024.00	4150.00
	existing board / sheet including making connections, testing etc. as				
	required.(Make: Schneider (neo break), Siemens, HPL, GE,				
5	Standard, Indoasian(gold), Havell's, C & S, ABB (S270))	Each			
5.1	Double pole isolator	Each			
a	30 A / 40 A rating	Each	4.00	298.00	1192.00
b	63 A rating	Each	12.00	367.00	4404.00
	P&F 240/415 V Residual current circuit breaker conforming to				
	IS:12640:1988/ IEC 61008 on existing board/sheet including making				
_	connections, testing etc. as required. (Schneider (neo break), Siemens,				
6	HPL, GE , Standard, Indoasian(gold), Havell's, C & S, ABB (S270))				
6.1	Two pole 30 mA sensitivity				
a	25 A rating	Each	8.0	1781.00	14248.00
	P&F Recessed/ Surface mounting heavy duty horizontal type sheet steel				
	Distribution board phophatised/ powder painted complete with suitable				
	rating insulated copper bus bar, shorting link, neutral link, earth link and				
	din bar,masking sheet, conforming to IS13032 & IS8623 including				
7	making internal DB terminations with copper lugs, testing etc. as				
	required. (Make: Schneider (neo break), Siemens, HPL, GE,				
	Standard, Indoasian(gold), Havell's, C & S, ABB (S270))				
7.1	Double door (single phase)	Each			
a	6 Way, Gr.I	Each	2.00	860.00	1720.00

b	lo				
	8 Way, Gr.I	Each	6.00	897.00	5382.00
	P&F metal clad industrial plug top & socket unit with pin and sleeve type				
	contact on porcelain/ bakelite base in sheet steel enclosure (without				
	MCB) including making connections with lugs, testing etc.as				
	required.(Make:Schneider (neo break), Siemens, HPL, GE ,				
8	Standard, Indoasian(gold), Havell's, C & S, ABB (S270))				
	3 (2)				
8.1	Single / Double Pole (Three pin)				
a	20 A	Each	10.0	725.00	7250.00
	P & F following modular accessories made out of unbreakable and fire	Lacii	10.0	725.00	7250.00
	retardant poly carbonate with silver contacts including making				
	connections testing etc. as required (Make: Legrand (Myrius), ABB (
9					
	Classic Luminia), Anchor (Wood), Schneider (Opale), Philips,				
	Havell's (Crabtree))				
9.1	6 A one way switch	Each	10.0	92.00	920.00
9.2	16 A one way switch	Each	90.0	138.00	12420.00
9.3	6 A 3 pin shuttered socket	Each	10.0	120.00	1200.00
9.4	16 A 6 pin shuttered socket	Each	90.0	138.00	12420.00
9.5	5 step fan regulator 2 Module	Each	18.0	460.00	8280.00
9.6	Blanking plate	Each	10.0	19.00	190.00
···	P & F following size mounting grid plates with cover plates. (Make:		20.0	22.00	
	Legrand (Myrius), ABB (Classic Luminia), Anchor (Wood),				
10	_ = · · · · · · · · · · · · · · · · · ·				
	Schneider (Opale), Philips, Havell's (Crabtree))				
10.1	3 Module	Each	10.0	74.00	740.00
10.1	5/6 Module				3488.00
10.2		Each	32.0	109.00	3488.00
	P & F following size hot dip galvanized M.S. box with earthing terminal				
	in recess/ surface suitable for modular accessories as required. (Make:				
11	Legrand (Myrius), ABB (Classic Luminia), Anchor (Wood),				
	Schneider (Opale), Philips, Havell's (Crabtree))				
	3 Module	Each	10.0	47.00	470.00
11.2	5-6 Module	Each	32.0	82.00	2624.00
	SITC of wall/ free standing floor mounted dust and vermin proof				
	compartmentalised cubical panel made out of CRCA sheet , required				
	hardware ,duly treated for derusting in 7 tank process with				
	dephosphating and with powder coating on both side of panel in desired				
	shade The panel having PU/ Neoprene rubber gasket of not less than				
	3mm thickness, separate detachable gland plate M.S. base channel				
	hinged door with locking arrangement for equipment/switchgear .				
	Thickness of sheet shall not be less than 1.6 mm up to 600 mm length /				
	width of any compartment and be of 2.0 mm above 600 mm. Load				
12	width of any compartment and be of 2.0 mm above 600 mm. Load bearing structure shall be of 2.0 mm thick sheet supported by base M.S.	Sqm	18	2752.00	49536.00
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13.1 14.1 15.1 15.1	bearing structure shall be of 2.0 mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with / without detachable extension type structure. (only outer area on all sides shall be measured & panel to be fabricated from CPRI approved fabricator) Supplying and fixing of Aluminium / Copper bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending, cutting in required shape and size and colour coding with heat shrinkable PVC sleeves. Electrolytic grade Aluminium bus bar SF of (0-500) V range Volt meter on existing panel, making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Schneider, L&T, HPL, Secure, AE, Neptune, Raychem RPG Digital type, Gr.I SF of CT operated direct reading type Ampere meter on existing panel, making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Schneider, L&T, HPL, Secure, AE, Neptune, Raychem RPG Digital type, Gr.I Below 500 A, Gr.I SF of Current Transformer, with all necessary support in existing panel including connection etc. as required. C&S, L&T, Nippen, Schneider,	Kg	15	420.00	6300.00
13.1 14.1 15.1 15.1	bearing structure shall be of 2.0 mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with / without detachable extension type structure. (only outer area on all sides shall be measured & panel to be fabricated from CPRI approved fabricator) Supplying and fixing of Aluminium / Copper bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending, cutting in required shape and size and colour coding with heat shrinkable PVC sleeves. Electrolytic grade Aluminium bus bar SF of (0-500) V range Volt meter on existing panel, making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Schneider, L&T, HPL, Secure, AE, Neptune, Raychem RPG Digital type, Gr.I SF of CT operated direct reading type Ampere meter on existing panel, making connection by PVC insulated copper conductor with PVC sleeves / channel etc. as required. Schneider, L&T, HPL, Secure, AE, Neptune, Raychem RPG Digital type, Gr.I Below 500 A, Gr.I SF of Current Transformer, with all necessary support in existing panel including connection etc. as required. C&S, L&T, Nippen, Schneider,	Kg	15	420.00	6300.00

SF of selector switch of 10 A for voluntary (a position) including making connection etc. as required GE, Stemens, C&S, HPT, L&T (17 sultary A, ABB, Schneider SF of CT linked elector switch of 10 A for Ampere meter (4 position) are through the connection with a second of the connection of the of the		·				
including making connection etc. as required GE, Siemens, C&S, BIFL, LATC salver, JABS, Schneider SP of 110/220 V, LED (22.5 mm dis.) Indicating lamp with integral circuit, terminal block, including connection etc. as required Siemens, C&S, GE, ESBEE (L&T), BCH, ABB, Schneider, Vaishno, Rass control, Kaycee, HPL-Milborn 19.3 Redyellow/Gene ologue, Gel. 19.2 Blue colour, Gel. 19.2 Blue colour, Gel. 19.2 Blue colour, Gel. 19.2 Blue colour, Gel. 19.3 Redyellow/Gene colour, Gel. 19.2 Blue colour, Gel. 19.3 Leg in the colour, Gel. 19.4 Fel. of 1951 direct or CT operated, 18240 / 38240 volts, 50 Hz static water bour meter (ship) having resolution 0.1 / 2010 twsh. 1.05 security class . LED indicators for tamper operation (Reverse ∨ ceath connection) pulsating resolution 0.1 / 2010 twsh. 1.05 security class . LED indicators for tamper operation (Reverse ∨ ceath connection) pulsating in EED indicator for meterology . electromechanical counter, LED Display, cover plate for body and terminal scaling, including making connection at setting etc. as required as required as required as required as required as a setting of the colour scaling, and the colour scaling, both circuit breaking capacity at 440415 V, 50 Hz. O.1. & SC settings and conforming to 18 60947.2 / EE, 660947.2 with front face and centralized adjustable, fine load interchangeability, having positive isolation capability, provision for UVR, shutt trip, and fined adjustable, fine load interchangeability, having positive isolation apability, provision for UVR, shutt trip, and fined and positive isolation as required adjustable, fine load interchangeability, having positive isolation as required. Makes-Schneider (see break), C & S, ABB (S270) 21.1 With Thermal Magnetic release a up to 100 Amp., 25 kA, redge of the colour scale and the colour of Si.554 PJ, 187 (Song) P - 10 for Group of approved make in ground as per IS1255 including executation of the col	17	making connection etc. as required .GE, Siemens, C&S, HPL, L&T (Each	2	228.00	456.00
countrol, Kayeee, HPLAdilborn 19.1 Redyellow/Green colour, Gr.I 19.2 Blue colour, Gr.I 19.2 Blue colour, Gr.I 19.3 Each 2 250.00 500.00 19.4 Redyellow/Green colour, Gr.I 19.5 Each 2 250.00 500.00 19.6 Redyellow/Green colour, Gr.I 19.7 Flat directs CT operated, 15.240 / 3c,20 volts, 50 Hz static ward for the colour, Gr.I 19.6 Flat directs CT operated, 15.240 / 3c,20 volts, 50 Hz static ward for the colour, Gr.I 19.6 Flat directs CT operated, 15.240 / 3c,20 volts, 50 Hz static ward for the colour for th	18	including making connection etc. as required .GE, Siemens, C&S,	Each	2	286.00	572.00
Blue colour, Grl PRF of Irrier of CT operated, 1x240 / 3x240 volts, 50 Hz static watt-hour meter (kwh) having resolution 0.1 / 0.01 kwh, 1 / 0.5 accuracy class . LED indicators for tamper operation (Reverse & for earth connection) pulsating LED indicator for meterology class . LED indicator in LED indicator for meterology class required. HIPL L&T, Schneider, Secure, AE, Raychem RPG, Neptune STTC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, OT, & SC settings and conforming to 18 60947-2 / IEC 60947-2 with front face and certained adjustable, line load interchangeability, having positive isolation capability, provision for UVR, shout trip earth face and certained adjustable, line load interchangeability, having positive isolation capability, provision for UVR, shout trip earth fatul trip, push (test) to trip, including making connections with lugs & spreaders, etc. as required. Maker-Schneider (neo break), C & S, ABB (8270) 22.1 With Thermal Magnetic release a up to 100 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Grl Each 1 18989.00 18989.00 22.2 Supply and fixing of following accessories for MCCB Each 1 18989.00 18989.00 22.2 Supply and fixing of following accessories for MCCB Each 2 2041.00 4082.00 PHAsing PVC. / XPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of 18:1554 P.1/18; 7098 P-1 of Group 1 of approved make in great genth-compaction of earth, making necessary connection, testing etc. as required of size. Maker- Havell's, KEI, Polycah, R Kable Score Mir. 36.00 159.00 37380.00 23.1 Ico Sq.mm Score Mir. 70.0 388.00 27160.00 23.2 Tol. Sq.mm Score Mir. 70.0 388.00 27160.00 24.1 3x 16.0 Sq.mm Score Mir. 70.0 388.00 27160.00 24.2 3x 70.0 Sq.mm Score S	19	circuit, terminal block, including connection etc. as required.Siemens, C&S, GE, ESBEE (L&T), BCH, ABB, Schneider, Vaishno, Rass				
P&F of IPSI direct or CT operated, 12-30 / 32-28 volves, 50 Hz static watt-hour meter (twh) having resolution 0.1 (O.01 ksh. 1, 10-5 accuracy class., LED indicators for tamper operation (Reverse & or earth connection), pulsating LED indicator for meter templogy electromechanical counter, LCD Display, cover plate for body and terminal scaling, including making connection, testing etc. as required.HPL, L&T, Schneider, Secure, AE, Raychem RPG, Neptune 20.1 up to 40 ampere single phase meter SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 4440-15 V, 50 Hz, OLA, & SC Settings and conforming to 18 09-097-2 / IEC 60947-2 with from face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR, shant trip carth fault trip, push (test) to trip, including making connections with bugs & spreaders, etc. as required. Make-Schneider (neo break), C & S, ABB (8270) 21.1 With Thermal Magnetic release a up to 100 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1 c 160 Amp, 25 kA, adjustable OL & fixed S/C setting, Ics = 100 % Icu, Gr. 1	19.1	Red/yellow/Green colour, Gr.I	Each	4	150.00	600.00
watt-hour meter (kwh) having resolution 0.1 / 0.01 kwh, 1 / 0.5 accuracy class . LED indicators for tamper operation (Reverse & kore earth connection) . pulsating LED indicator for meterology . electrochenhaicd counter, LCD Displays, cover plate for body and terminal sealing . including making connection ,testing etc. as required.HPL . L&T, Schneider, Secure, AE, Raychem RPG, Neptune 20.1 up to 40 ampere single phase meter STFC of quick make and quick break 4 POLE current limiting MCCB STFC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, 0.1, & SC settings and conforming to IS 60947-2 / IEC 60947-2 with front face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UUR, shaut trip capath fatt trip, push (test) to trip, including making connections with lugs & spreaders, etc. as required. Maker-Schneider (neo break), C & S, ABB (8270) 21.1 With Thermal Magnetic release a up to 100 Amp , 25 kA, dijustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 100 Amp , 25 kA, adjustable OL. & fixed SC setting, les = 100 % lcu c 1	19.2	Blue colour, Gr.I	Each	2	250.00	500.00
STIC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, OL & SC settings and conforming to 15 60947-2 / BEC 60947-2 with front face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs & spreaders, etc. as required. Make:—Schneider (neo break), C & S, ABB (S270) 21.1	20	watt-hour meter (kwh) having resolution 0.1 / 0.01 kwh, 1/0.5 accuracy class, LED indicators for tamper operation (Reverse &/or earth connection), pulsating LED indicator for meterology, electromechanical counter, LCD Display, cover plate for body and terminal sealing, including making connection, testing etc. as required.HPL, L&T, Schneider, Secure, AE, Raychem RPG,				
STIC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz, OL & SC settings and conforming to 15 60947-2 / BEC 60947-2 with front face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip, earth fault trip, push (test) to trip, including making connections with lugs & spreaders, etc. as required. Make:—Schneider (neo break), C & S, ABB (S270) 21.1	20.1	un to 40 ampere single phase meter	Each	8.0	1350 0	10800 00
a up to 100 Amp, 25 kA, fixed O/L & S/C setting Each 250 Amp, 35 kA, adjustable O/L & fixed S/C setting, Ics = 100 % Icu, Gr. Each 1 18989.00 18989.00 18989.00 18989.00 160 Amp, 25 kA, adjustable O/L & fixed S/C setting, Ics = 100 % Icu Each 1 7363.0 7363.00 7363.00 22 Supply and fixing of following accessories for MCCB 22.1 Extended Rotary Handle Each 2 2041.00 4082.00 1 4082.00 2 2 2 2 2 2 2 2 2		SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 60947-2 / IEC 60947-2 with front face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR, shunt trip ,earth fault trip, push (test) to trip, including making connections with lugs & spreaders, etc. as required. Make:-				
250 Amp , 35 kA, adjustable O/L & fixed S/C setting, Ics = 100 % Icu Each 1 18989.00 18989.00 18989.00 160 Amp , 25 kA, adjustable O/L & fixed S/C setting, Ics = 100 % Icu Each 1 7363.0 7363.00 22 Supply and fixing of following accessories for MCCB	21.1	With Thermal Magnetic release				
Each 1 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 18989.00 22 Supply and fixing of following accessories for MCCB	a	up to 100 Amp, 25 kA, fixed O/L & S/C setting	Each	4	4302.00	17208.00
C	b	Gr.I	Each	1	18989.00	18989.00
22.1				-		
P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS:7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, IInd class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 23.1 16.0 Sq.mm	L .		Each	1	7363.0	7363.00
grade with aluminium conductor of IS:1554 P-I / IS:7098 P - I of Group I of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 23.1 16.0 Sq.mm 23.1 4 core 23.1 16.0 Sq.mm a 3 core 3 core Mtr. 350.00 159.00 55650.00 23.2 70.0 Sq.mm a 3.5 core Mtr. 70.0 388.00 27160.00 23.3 150.0 Sq.mm a 3.5 core Mtr. 145.0 735.00 106575.00 Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lags duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.Jainsons, Dowell's, Elcon, Metalcraft, Cabend, Trinity Touch Set 16.0 65.0 1040.00 24.1 3 x 16.0 sq.mm Set 16.0 65.0 1040.00 24.2 3.5 x 70.0 sq.mm Set 2.0 186.0 372.00			Each	1	7363.0	7363.00
23.1 4 core 210.0 178.00 37380.00 23.1 16.0 Sq.mm	22	Supply and fixing of following accessories for MCCB				
23.1 4 core 210.0 178.00 37380.00 23.1 16.0 Sq.mm	22 22.1	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I/IS:7098 P-I of Group I of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI,				
23.1 16.0 Sq.mm	22 22.1	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS:7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable				
a 3 core Mtr. 350.00 159.00 55650.00 23.2 70.0 Sq,mm Mtr. 70.0 388.00 27160.00 23.3 150.0 Sq,mm Mtr. 70.0 388.00 27160.00 Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.Jainsons, Dowell's, Elcon, Metalcraft, Cabend, Trinity Touch 24.1 3 x 16.0 sq.mm Set 16.0 65.0 1040.00 24.2 3.5 x 70.0 sq.mm Set 2.0 186.0 372.00	22 22.1 23.1	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-1/IS:7098 P-I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 16.0 Sq.mm		2	2041.00	4082.00
a 3.5 core Mtr. 70.0 388.00 27160.00 23.3 150.0 Sq.mm Mtr. 145.0 735.00 106575.00 Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.Jainsons, Dowell's, Elcon, Metalcraft, Cabend, Trinity Touch Set 16.0 65.0 1040.00 24.1 3 x 16.0 sq.mm Set 2.0 186.0 372.00	22 22.1 23 23.1 23.1	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS:7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 16.0 Sq.mm 4 core		2	2041.00	4082.00
23.3 150.0 Sq.mm a 3.5 core Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.Jainsons, Dowell's, Elcon, Metalcraft, Cabend, Trinity Touch 24.1 3 x 16.0 sq.mm Set 16.0 65.0 1040.00 24.2 3.5 x 70.0 sq.mm Set 2.0 186.0 372.00	22 22.1 23 23.1 23.1 23.1	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS:7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 16.0 Sq.mm 4 core 16.0 Sq.mm	Each	210.0	2041.00 178.00	4082.00 4082.00 37380.00
a 3.5 core Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size. Jainsons, Dowell's, Elcon, Metalcraft, Cabend, Trinity Touch 24.1 3 x 16.0 sq.mm Set 16.0 65.0 1040.00 24.2 3.5 x 70.0 sq.mm Set 2.0 186.0 372.00	22 22.1 23 23.1 23.1 23.1 a	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS :7098 P - I of Group I of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 16.0 Sq.mm 4 core 16.0 Sq.mm 3 core 70.0 Sq.mm	Each	2 210.0 350.00	2041.00 178.00 159.00	4082.00 4082.00 37380.00 55650.00
Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size. Jainsons, Dowell's, Elcon, Metalcraft, Cabend, Trinity Touch 24.1 3 x 16.0 sq.mm Set 16.0 65.0 1040.00 24.2 3.5 x 70.0 sq.mm Set 2.0 186.0 372.00	22 22.1 23 23.1 23.1 23.1 23.2 a	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS:7098 P - I of Group I of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 16.0 Sq.mm 4 core 16.0 Sq.mm 3 core 70.0 Sq.mm 3.5 core	Each Mtr.	2 210.0 350.00	2041.00 178.00 159.00	4082.00 4082.00 37380.00 55650.00
24.2 3.5 x 70.0 sq.mm Set 2.0 186.0 372.00	22 22.1 23 23.1 23.1 23.1 23.2 a 23.3	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS :7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 16.0 Sq.mm 4 core 16.0 Sq.mm 3 core 70.0 Sq.mm 3.5 core 150.0 Sq.mm	Each Mtr. Mtr.	210.0 210.0 350.00 70.0	2041.00 178.00 159.00 388.00	37380.00 55650.00 27160.00
24.2 3.5 x 70.0 sq.mm Set 2.0 186.0 372.00	22 22.1 23.1 23.1 23.1 23.2 a 23.3 a	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS:7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 16.0 Sq.mm 4 core 16.0 Sq.mm 3.5 core 70.0 Sq.mm 3.5 core Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.Jainsons, Dowell's, Elcon,	Each Mtr. Mtr.	210.0 210.0 350.00 70.0	2041.00 178.00 159.00 388.00	37380.00 55650.00 27160.00
	22 22.1 23.1 23.1 23.1 23.2 a 23.3 a	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS:7098 P - I of Group I of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 16.0 Sq.mm 3 core 70.0 Sq.mm 3.5 core 150.0 Sq.mm 3.5 core Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.Jainsons, Dowell's, Elcon, Metalcraft, Cabend, Trinity Touch	Mtr. Mtr.	210.0 350.00 70.0	178.00 159.00 388.00	37380.00 55650.00 27160.00
	22 22.1 23.1 23.1 23.1 23.2 a 23.2 a 23.3 a	Supply and fixing of following accessories for MCCB Extended Rotary Handle P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS:7098 P - I of Group I of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Havell's, KEI, Polycab,RR Kable 16.0 Sq.mm 4 core 16.0 Sq.mm 3.5 core 70.0 Sq.mm 3.5 core Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.Jainsons, Dowell's, Elcon, Metalcraft, Cabend, Trinity Touch	Mtr. Mtr. Set	210.0 350.00 70.0 145.0	178.00 159.00 388.00 735.00	37380.00 55650.00 27160.00 106575.00

25	Plate Earthing as per IS:3043 with copper Earth plate of size 300mm x 300mm x 3.0mm by embodying 3 to 4 mtr. below the ground level with 25 mm dia. G.I. 'B' class watering Pipe including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required. (Make BSR Group-1)	Set	3.0	5000.00	15000.00
26	S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required.				
26.1	8 SWG copper Wire	Mtr.	230.0	79.0	18170.00
26.2	20mm x 3mm copper strip	Mtr.	8.0	402.0	3216.00
27	P & F Star rated double ball bearing capacitor start, aluminium body & blade ceiling fan with down rod up to 30 cm with 3 x 1.5 sq.mm pvc insulated flexible copper conductor making connection testing etc. as required. (Almonard, CG, Khaitan, Bajaj, Usha, Orient, , Havell's,Polar).				
27.1	1200 mm Sweep 5 Star rated, Gr.I	Each	18.0	1896.00	34128.00
28	P&F of Double ball bearing, capacitor start single phase metallic blade fresh air fan, in existing opening including cost of hardware, flexible copper conductor ,making connections, testing etc. as required. Almonard, CG, Alstom, Khaitan, Bajaj, Usha, Remi, EPC, Polar				
28.1	300 mm sweep	Each	18.00	1856.00	33408.00
29	P & F extra down rod of 15 mm dia . ERW (Electrical resistance welded) of 1.6mm nominal thick medium duty steel pipe including cutting, threading, drilling, fixing quarter pin etc as reqd.	Mtr.	17.0	89.00	1513.00
			<u> </u>	Total	735008.00

			Percentag	e "Above" or	"Below" or "A	t par" the
		Estimated	Rate Quoted by		Price	
Sr.No.	Description of Item	cost of work	"Above"	% in	In Words	Total
		(in Rupees)	or	Figures	III Words	Cost (in
1	2	3	4	5	6	7
1						-
_		735008.00				
	TOTAL COST OF SCHEDULES:-	7,35,008.00		TOTAL QUO	OTED PRICE=	0.00
	Grand Total (in words)	•				

PART B (H SCHEDULE)

S.No.	Particulars	Unit	QTY.	Rates	Amount
1	P & F energy efficient direct fit (Retrofit) LED tube system (with integral driver), on existing fixture. Power Consumption of 18W / 36W 1500-3000 lumens, system lumen efficiency 100 lm/Watt output, life time of 50,000 burning hours with 70% initial lumen maintained. CCT 3000°K, 4000°K & 6000°K. Philips, Havell's, Lighting Science				
1.1	4' LED Tube shape fixture 18W	Each	45.0		
2	P & F of IP65 IK10 rated LED bulk head type light fixture made from CRCA sheet steel housing suitable for moutning LED tube system (integral driver), Power Consumption of 10-15W ~ 500-600 lumens, system lumen efficiency 100 lm/Watt output suitable for 1x100W GLS / 9W CFL bulk head fixtures, life time of 50,000 burning hours with 70% initial lumen maintained. CCT 3000°K, 4000°K & 6000°K. Fixture shall be in compliance with CE & KEMA standards. Philips, Havell's, Lighting Science.				
2.1	LED BULK head luminaire 9/10W	Each	10.0		

3	P & F of IP 65 protected LED Post-Top-Light system with Die cast housing, poycarbonate diffuser, 40 - 60W, 220-240V, 50Hz (integrated Driver), LED lamps supplied with pre-wired cable of 1 mtr. Driver shall be high efficiency having efficiency > 85% and in compliance to IEC standards (Integral with light fixture).system life of 25000 Burning Hours with 70% of initial Lumens maintained. Light output in Cool white or Warm White Colour as per engineers choice. Fixtures shall be CE compliance.Philips, Havell's, Lighting Science.				
3.1	40W LED Post Top Fixture	Each	8.0		
4	Supply Installation testing and commissioning of 3.0 long MS tubular pole light pole standard pole fabricated out of 70 mm dia. pipe 1.8 metre long and bottom dia of 140 mm 1.2 meter long complete with 300 mm x 300 mm x 6 mm thick MS plate welded at bottom including welding of 1 no. earth stud and drilling holes for drawing the wire etc. complete as required including foundation, wiring with 3x1.5sqmm copper wire from JB to light fitting,painting and connections . A looping/junction box shall be inbuilt into the pole.	Each	8.0		
				TOTAL	

EXECUTIVE ENGINEER MNIT JAIPUR

TOTAL QUOATED AMOUNT (G SCHEDULE + H SCHEDULE)

SIGNATURE OF CONTRACTOR WITH POSTAL FULL ADRESS