

Ref No.:	P-247/RVG/WO/Electrical/M&L/...../T1/R0	Date: 15-01-2021
Project Name:	RVG Hostel	
Subject:	BOQ and contract rates (Material + Labour), for Electrical works	

ANNEXURE "A"

Sr. No.	DESCRIPTION OF ITEMS	APPROVED MAKES	UNIT	QTY	UNIT RATE	AMOUNT	
A	Internal Wiring System Of Rooms						
A.1	Circuit and Point Wiring (Lights/Fans/ACs/Geysers/LV-points) : For Rooms Type 1						
A.1.1.a	Circuit-1 (upto SB1): Circuit Main Wiring from DB (MCB) to switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches. <i>Note: This is wiring from DB to switch-box.</i>	2mm thick Conduit: Precision, 650V PVC insulated FRLS Cu Wires&Cables: Polycab/Finolex/RR , TV-cable: RG6, VDF-cable: CAT6 / (4P*0.5sqmm) Polycab/Finolex/RR wire, Switches: Anchor-Roma/Vinay/GM	No's	232		₹ 0	
A.1.2	Secondary Circuit Main Wiring from one switch-box to another switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches.		No's	58		₹ 0	
A.1.3.b	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit (wiring length more than 3m but less than 6m).		No's	348		₹ 0	
A.1.5	Ceiling Fan point controlled by electronics type fan regulator (step type regulator), switch & ceiling-rose. With 2x1.5sqmm Cu wires in 20mm PVC conduit.		No's	174		₹ 0	
A.1.6	6Amp socket on switch board with 6A switch. <i>Note: On existing Switch-Box only.</i>		No's	290		₹ 0	
A.1.9	Circuit-3 (upto SB3, for AC): Circuit Main Wiring from DB (MCB) to AC switch-box. With 2x4sqmm + 1x2.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories. And from AC-switch to AC-socket. This Point must be inclusive of a 25Amps switch with a 25Amps plug-point (socket) as per location mentioned in plans.		No's	58		₹ 0	
A.1.10	Bell : Bell point controlled by switch board (inside floor lobby) with 2x1.5sqmm Cu wires in 20mm PVC conduit, including required accessories with switches. <i>Note: Bell switch to be in floor-lobby and Bell to be fixed in passage-area of flat. Bell to be supplied by client free of cost to contractor.</i>		No's	58		₹ 0	
A.1.30	6/16Amp socket on switch board with 16A switch. <i>Note: On existing Switch-Box only.</i>		No's	58		₹ 0	
	Toilet Points & Passage-area Points						
A.1.31	Circuit-1 (upto SB8): Circuit Main Wiring from DB (MCB) to switch-box. With 2x4sqmm + 1x2.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches. <i>Note: This is wiring from DB to switch-box.</i>		No's	58		₹ 0	
A.2.2	Secondary Circuit Main Wiring from one switch-box to another switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches.	No's	174		₹ 0		
A.1.32	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit.	No's	174		₹ 0		
A.1.33	Exhaust fan point (socket) with 2x1.5sqmm Cu wires in 20mm PVC conduit, from main-switch-box to exhaust-fan-socket/ceiling-rose. This point must be inclusive of switch & 6A socket/ceiling-rose as per location mentioned in plans.	No's	58		₹ 0		
A.1.35	Wi-Fi Power Point in room Passage: Secondary Circuit Main Wiring from Toilet-switch-box. With 2 x 2.5sqmm + 1 x 1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories and switch-box including the 6Amp socket on switch board with 6A switch.	No's	58		₹ 0		
Total of Circuit and Point Wiring (Lights/Fans/ACs/Geysers) : For Room Type 1						₹ 0	
A.2	Circuit and Point Wiring (Lights/Fans/ACs/Geysers/LV-points) : For Room Type 2						
A.2.1.a	Circuit-1 (upto SB1): Circuit Main Wiring from DB (MCB) to switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches. <i>Note: This is wiring from DB to switch-box.</i>	2mm thick Conduit: Precision, 650V PVC insulated FRLS Cu Wires&Cables: Polycab/Finolex/RR , TV-cable: RG6, VDF-cable: CAT6 / (4P*0.5sqmm) Polycab/Finolex/RR wire, Switches: Anchor-Roma/Vinay/GM	No's	25		₹ 0	
A.2.2	Secondary Circuit Main Wiring from one switch-box to another switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches.		No's	5		₹ 0	
A.2.3.a	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit (wiring length more than 3m but less than 6m).		No's	15		₹ 0	
A.2.3.b	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit (wiring length more than 6m but less than 9m).		No's	5		₹ 0	
A.2.5	Ceiling Fan point controlled by electronics type fan regulator (step type regulator), switch & ceiling-rose. With 2x1.5sqmm Cu wires in 20mm PVC conduit.		No's	20		₹ 0	
A.2.6	6Amp socket on switch board with 6A switch. <i>Note: On existing Switch-Box only.</i>		No's	50		₹ 0	
A.2.9	Circuit-3 (upto SB3, for AC): Circuit Main Wiring from DB (MCB) to AC switch-box. With 2x4sqmm + 1x2.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories. And from AC-switch to AC-socket. This Point must be inclusive of a 32Amps switch with a 32Amps plug-point (socket) as per location mentioned in plans.		No's	5		₹ 0	
A.2.10	Bell : Bell point controlled by switch board (inside floor lobby) with 2x1.5sqmm Cu wires in 20mm PVC conduit, including required accessories with switches. <i>Note: Bell switch to be in floor-lobby and Bell to be fixed in passage-area of flat. Bell to be supplied by client free of cost to contractor.</i>		No's	5		₹ 0	

A.1.30	6/16Amp socket on switch board with 16A switch. <i>Note: On existing Switch-Box only.</i>		No's	15		₹ 0
	Toilet Points & Passage-area Points					
A.2.31	Circuit-1 (upto SB8): Circuit Main Wiring from DB (MCB) to switch-box. With 2x4sqmm + 1x2.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches. <i>Note: This is wiring from DB to switch-box.</i>	2mm thick Conduit: Precision, 650V PVC insulated FRLS Cu Wires&Cables: Polycab/Finolex/RR , Switches: Anchor-Roma/Vinay/GM	No's	5		₹ 0
A.2.2	Secondary Circuit Main Wiring from one switch-box to another switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches.		No's	10		₹ 0
A.2.32	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit.		No's	20		₹ 0
A.2.33	Exhaust fan point (socket) with 2x1.5sqmm Cu wires in 20mm PVC conduit, from main-switch-box to exhaust-fan-socket/ceiling-rose. This point must be inclusive of swith & 6A socket/ceiling-rose as per location mentioned in plans.		No's	10		₹ 0
A.2.35	Wi-Fi Power Point in room Passage: Secondary Circuit Main Wiring from Toilet-switch-box. With 2 x 2.5sqmm + 1 x 1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories and switch-box including the 6Amp socket on switch board with 6A switch.		No's	5		₹ 0
Total of Circuit and Point Wiring (Lights/Fans/ACs/Geysers) : For Room Type 2						₹ 0
A.3	Circuit and Point Wiring (Lights/Fans/ACs/Geysers/LV-points) : For Room Type 3					
A.2.1.a	Circuit-1 (upto SB1): Circuit Main Wiring from DB (MCB) to switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches. <i>Note: This is wiring from DB to switch-box.</i>	2mm thick Conduit: Precision, 650V PVC insulated FRLS Cu Wires&Cables: Polycab/Finolex/RR , TV-cable: RG6, VDF-cable: CAT6 / (4P*0.5sqmm) Polycab/Finolex/RR wire, Switches: Anchor-Roma/Vinay/GM	No's	60		₹ 0
A.2.2	Secondary Circuit Main Wiring from one switch-box to another switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches.		No's	18		₹ 0
A.2.3.a	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit (wiring less than 3m).		No's	6		₹ 0
A.2.3.a	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit (wiring length more than 3m but less than 6m).		No's	24		₹ 0
A.2.3.b	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit (wiring length more than 6m but less than 9m).		No's	12		₹ 0
A.2.5	Ceiling Fan point controlled by electronics type fan regulator (step type regulator), switch & ceiling-rose. With 2x1.5sqmm Cu wires in 20mm PVC conduit.		No's	42		₹ 0
A.2.6	6Amp socket on switch board with 6A switch. <i>Note: On existing Switch-Box only.</i>		No's	60		₹ 0
A.2.9	Circuit-3 (upto SB3, for AC): Circuit Main Wiring from DB (MCB) to AC switch-box. With 2x4sqmm + 1x2.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories. And from AC-switch to AC-socket. This Point must be inclusive of a 32Amps switch with a 32Amps plug-point (socket) as per location mentioned in plans.		No's	12		₹ 0
A.2.10	Bell : Bell point controlled by switch board (inside floor lobby) with 2x1.5sqmm Cu wires in 20mm PVC conduit, including required accessories with switches. <i>Note: Bell switch to be in floor-lobby and Bell to be fixed in passage-area of flat. Bell to be supplied by client free of cost to contractor.</i>		No's	6		₹ 0
A.1.30	6/16Amp socket on switch board with 16A switch. <i>Note: On existing Switch-Box only.</i>			No's	24	
	Toilet Points & Passage-area Points					
A.2.31	Circuit-1 (upto SB8): Circuit Main Wiring from DB (MCB) to switch-box. With 2x4sqmm + 1x2.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches. <i>Note: This is wiring from DB to switch-box.</i>	2mm thick Conduit: Precision, 650V PVC insulated FRLS Cu Wires&Cables: Polycab/Finolex/RR , Switches: Anchor-Roma/Vinay/GM	No's	12		₹ 0
A.2.2	Secondary Circuit Main Wiring from one switch-box to another switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches.		No's	30		₹ 0
A.2.32	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit.		No's	30		₹ 0
A.2.33	Exhaust fan point (socket) with 2x1.5sqmm Cu wires in 20mm PVC conduit, from main-switch-box to exhaust-fan-socket/ceiling-rose. This point must be inclusive of swith & 6A socket/ceiling-rose as per location mentioned in plans.		No's	6		₹ 0
A.2.35	Wi-Fi Power Point in room Passage: Secondary Circuit Main Wiring from Toilet-switch-box. With 2 x 2.5sqmm + 1 x 1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories and switch-box including the 6Amp socket on switch board with 6A switch.		No's	12		₹ 0
Total of Circuit and Point Wiring (Lights/Fans/ACs/Geysers) : For Room Type 3						₹ 0
A.4	Circuit and Point Wiring (Lights/Fans/ACs/Geysers/LV-points) : For Room Type 4					
A.2.1.a	Circuit-1 (upto SB1): Circuit Main Wiring from DB (MCB) to switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches. <i>Note: This is wiring from DB to switch-box.</i>	2mm thick Conduit: Precision, 650V PVC insulated FRLS Cu Wires&Cables: Polycab/Finolex/RR , TV-cable: RG6, VDF-cable: CAT6 / (4P*0.5sqmm) Polycab/Finolex/RR	No's	15		₹ 0
A.2.2	Secondary Circuit Main Wiring from one switch-box to another switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches.		No's	15		₹ 0
A.2.3.a	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit (wiring less than 3m).		No's	5		₹ 0
A.2.3.b	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit (wiring length more than 6m but less than 9m).		No's	5		₹ 0
A.2.5	Ceiling Fan point controlled by electronics type fan regulator (step type regulator), switch & ceiling-rose. With 2x1.5sqmm Cu wires in 20mm PVC conduit.		No's	10		₹ 0

A.2.6	6Amp socket on switch board with 6A switch. <i>Note: On existing Switch-Box only.</i>	wire, Switches: Anchor-Roma/Vinay/GM	No's	35		₹ 0
A.2.9	Circuit-3 (upto SB3, for AC): Circuit Main Wiring from DB (MCB) to AC switch-box. With 2x4sqmm + 1x2.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories. And from AC-switch to AC-socket. This Point must be inclusive of a 32Amps switch with a 32Amps plug-point (socket) as per location mentioned in plans.		No's	5		₹ 0
A.2.10	Bell : Bell point controlled by switch board (inside floor lobby) with 2x1.5sqmm Cu wires in 20mm PVC conduit, including required accessories with switches. <i>Note: Bell switch to be in floor-lobby and Bell to be fixed in passage-area of flat. Bell to be supplied by client free of cost to contractor.</i>		No's	5		₹ 0
A.1.30	6/16Amp socket on switch board with 16A switch. <i>Note: On existing Switch-Box only.</i>		No's	10		₹ 0
Toilet Points & Passage-area Points						
A.2.31	Circuit-1 (upto SB8): Circuit Main Wiring from DB (MCB) to switch-box. With 2x4sqmm + 1x2.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches. <i>Note: This is wiring from DB to switch-box.</i>		No's	5		₹ 0
A.2.2	Secondary Circuit Main Wiring from one switch-box to another switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box but without switches.	2mm thick Conduit: Precision, 650V PVC insulated FRLS Cu Wires&Cables: Polycab/Finolex/RR, Switches: Anchor-Roma/Vinay/GM	No's	5		₹ 0
A.2.32	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit.		No's	10		₹ 0
A.2.33	Exhaust fan point (socket) with 2x1.5sqmm Cu wires in 20mm PVC conduit, from main-switch-box to exhaust-fan-socket/ceiling-rose. This point must be inclusive of swicth & 6A socket/ceiling-rose as per location mentioned in plans.		No's	5		₹ 0
A.2.35	Wi-Fi Power Point in room Passage: Secondary Circuit Main Wiring from Toilet-switch-box. With 2 x 2.5sqmm + 1 x 1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories and switch-box including the 6Amp socket on switch board with 6A switch.		No's	5		₹ 0
Total of Circuit and Point Wiring (Lights/Fans/ACs/Geysers) : For Room Type 4						₹ 0
Total of "Internal Wiring System Of Rooms" (A):						₹ 0
B	MV/LV Distribution Boards (DBs): Inside Flats					
	Design, supply, installation, testing and commissioning of following miniature type circuit breaker distribution boards, wall mounted (flush with wall surface), IP-42 protection and as per drawings, specifications & as required. The distribution board shall be of sheet steel enclosure with copper busbars suitable for single phase or three phase MCBs. The MCBDB shall have sheet steel hinged lockable door top to prevent access to MCBs from outside. The DB shall have suitable neutral and earth terminal block to facilitate easy termination of wires. All wires inside the DBs shall be terminated using Cu/AL end terminations. Rates of items/works must be inclusive of wire termination using necessary Cu/AL glands/lugs. All DBs shall be of double door type.	DBs: IndoAsian/Indo-Kopp/Siemens/L&T, MCB & RCCB: IndoAsian/Indo-Kopp/Siemens/L&T				
1	Room Type -1 DB (SPN DB)		No's	58		₹ 0
	Incomer having:					
	One(1) - 40A, DP, RCBO, 100mA					
	Outgoing feeders:					
	Five(5) - 10A, SP, 10kA, MCB					
	Two(2) - 20A, SP, 10kA, MCB					
2	Room Type -2 DB (SPN DB)		No's	5		₹ 0
	Incomer having:					
	One(1) - 40A, DP, RCBO, 100mA					
	Outgoing feeders:					
	Five(5) - 10A, SP, 10kA, MCB					
	Two(2) - 20A, SP, 10kA, MCB					
	One(1) - 25A, SP, 10kA, MCB					
3	Room Type -3 DB (SPN DB)		No's	6		₹ 0
	Incomer having:					
	One(1) - 63A, DP, RCBO, 100mA					
	Outgoing feeders:					
	Eight(8) - 10A, SP, 10kA, MCB					
	Two(2) - 20A, SP, 10kA, MCB					
	One(1) - 25A, SP, 10kA, MCB					
4	Room Type -4 DB (SPN DB)		No's	5		₹ 0
	Incomer having:					

	One(1) - 40A, DP, RCBO, 100mA					
	Outgoing feeders:					
	One(1) - 10A, SP, 10kA, MCB					
	Two(2) - 20A, SP, 10kA, MCB					
5	LV DB (for Wifi)	Any Local available box (Splitter not in scope of contractor)	No's	74		₹ 0
	LV DB					
Total of "Distribution Boards (DBs) inside Flats" (B):						₹ 0
C	MV Main-Lines-of-the-Flats AND Isolators/MCBs (Flat-DBs to Meter-room)					
1	From DB-inside-flat To Isolator-in-MV-duct: Providing all materials, accessories and labour for wiring with conduits & accessories, for circuit main, using PVC insulated stranded copper conductor wires of 650V grade drawn through heavy gauge rigid PVC conduit of thickness 2mm using necessary conduit accessories, PVC pull / junction boxes, G.I fish wire etc. The rate shall include the cost of providing PVC insulated stranded copper conductor earth wire in each conduit along with other circuit main wires. Here, earth-wire to be provided from DB to MV-duct earthing strip ONLY.	2mm thick Conduit: Precision, 650V PVC insulated FRLS Cu Wires&Cables: Polycab/Finolex/RR				
1.1	2 x 6 sqmm + 1 x 4 sqmm (earth) Cu wires in 25mm dia PVC conduit. (For Single-Phase Main line)..... For All Rooms		Mtr's	280.6		₹ 0
1.5	2 x 2.5 sqmm + 1 x 1.5 sqmm (earth) Cu wires in 32mm dia PVC conduit. (For Single-Phase Main line)..... For Pantry		Mtr's	7.7		₹ 0
2	ISOLATORS in Electrical-ducts (cost must be using necessary Cu/AL glands/lugs):	MCB : IndoAsian/Indo-Kopp/Siemens/L&T				
2.1	400A, 4P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside Electrical-Duct, as ISOLATOR....for 6th Floor)		No's	1		₹ 0
2.2	400A, 4P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside Electrical-Duct, as ISOLATOR....for 7th Floor)		No's	1		₹ 0
2.3	315A, 4P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside Electrical-Duct, as ISOLATOR....for 8th Floor)		No's	1		₹ 0
2.4	250A, 4P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside Electrical-Duct, as ISOLATOR....for 9th Floor)		No's	1		₹ 0
2.5	200A, 4P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside Electrical-Duct, as ISOLATOR....for 10th Floor)		No's	1		₹ 0
2.6	125A, 4P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside Electrical-Duct, as ISOLATOR....for 11th Floor)		No's	1		₹ 0
2.7	80A, 4P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside Electrical-Duct, as ISOLATOR....for 12th Floor)		No's	1		₹ 0
3	ISOLATORS in Panels for each Floor (cost must be using necessary Cu/AL glands/lugs):	MCB : IndoAsian/Indo-Kopp/Siemens/L&T				
3.1	63A, 2P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside Electrical-Duct, as ISOLATOR....for All Rooms)		No's	6		₹ 0
3.1	40A, 2P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside Electrical-Duct, as ISOLATOR....for All Rooms)		No's	68		₹ 0
4	From Isolator-inside-MV-duct To Meter-room: Providing all materials, accessories and labour for wiring with conduits & accessories, for circuit main, using PVC insulated stranded copper conductor wires of 650V grade drawn through heavy gauge rigid PVC conduit of thickness 2mm using necessary conduit accessories, PVC pull / junction boxes, G.I fish wire etc. The rate shall include the cost of providing PVC insulated stranded copper conductor earth wire in each conduit along with other circuit main wires. The rates must be including GI Z brackets @ 750mm c/c on duct walls, 3mm thick SS clamps & reqd. accessories to clamp cables/conduits onto the duct-walls.	2mm thick Conduit: Precision, 650V PVC insulated FRLS Cu Wires&Cables: Polycab/Finolex/RR				
3.1	2Run-3.5 x 150 sqmm AL Cables in 25mm dia PVC conduit. (For Single-Phase Main line)..... from Meter room to 6th Floor		Mtr's	20		₹ 0
3.2	2Run-3.5 x 120 sqmm AL Cables in 25mm dia PVC conduit. (For Single-Phase Main line)..... From 6th Floor to 7th Floor		Mtr's	3		₹ 0
3.3	2Run-3.5 x 95 sqmm AL in 25mm dia PVC conduit. (For Single-Phase Main line)..... From 7th Floor to 8th Floor		Mtr's	3		₹ 0
3.4	3.5 x 185 sqmm AL Cables in 25mm dia PVC conduit. (For Single-Phase Main line)..... From 8th Floor to 9th Floor		Mtr's	3		₹ 0
3.4	3.5 x 120 sqmm AL Cable in 25mm dia PVC conduit. (For Single-Phase Main line)..... From 9th Floor to 10th Floor		Mtr's	3		₹ 0
3.4	3.5 x 70 sqmm AL Cable in 25mm dia PVC conduit. (For Single-Phase Main line)..... From 10th Floor to 11th Floor		Mtr's	3		₹ 0
3.4	3.5 x 25 sqmm AL cable in 25mm dia PVC conduit. (For Single-Phase Main line)..... From 11th Floor to 12th Floor		Mtr's	3		₹ 0
4	MCBs in Meter-Room (cost must be using necessary Cu/AL glands/lugs):	MCB : IndoAsian/Indo-Kopp/Siemens/L&T				
4.1	500A, 2P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside Meter-Room....for All Room)		No's	1		₹ 0
Total of "MV Main Lines of Flats AND Isolators/MCBs (Flat-DBs to Meter-room)" (C):						₹ 0

D	DG/Alternate-Power-control connections, Changeover-Switch/Panel AND Other MV-Panels					
Total of "DG connections, DG-Cable, Main-Changeover-Panel/Switch AND Other Main-MV-Panels" (D):						₹ 0
E	Other Main-MV-Cables AND Fuse-Units/Main-MV-Circuit-Breakers					
1	MAIN MV-CABLES (From LT Panel To Meter-Room): Supplying, laying, testing and commissioning of 1100V grade XLPE insulated PVC sheathed steel wire/tape armoured Alluminium/ copper conductor cables with required glands. The cables shall be laid in concrete trenches (belowground) or in PVC pipes (underground) or on cable trays. Making of concrete trenches will be in scope of civil contractor. The cost of the cable trays or ladders will be measured separate. But cost of excavation and back filling of underground pipes to be included in cable cost. The unit cost of the cable shall include glands, clamps, fasteners etc. as required for proper installation.	1100V LT XLPE FRLS AL/Cu Cables: Polycab/Finolex/RR, Fuse-unit & MCCB-MCB : IndoAsian/Indo-Kopp/Siemens/L&T				
1.1	2 Run-3.5C * 185 sqmm XLPE AL cable. (LT-Panel to 400V-Fuse Unit, for Common-Area-meters, inside Meter-Room)		Mtr's	20		₹ 0
1.3	3.5C * 185 sqmm XLPE AL cable. (LT-Panel to 400V-Fuse Unit, for Fire-Meter, inside Meter-Room)		Mtr's	20		₹ 0
1.4	3.5C * 70 sqmm XLPE AL cable. (LT-Panel to 400V-Fuse Unit, for Alternate-Fire-Meter, separate location outside Meter-Room)		Mtr's	20		₹ 0
2	Fuse-Units before Common-Area-Meter, Fire-Meter & Alternate-Fire-Meter (between LT-Panel & Meters, Cost must be including of using necessary Cu/AL glands/lugs for wire termination):	Fuse-unit : IndoAsian/Indo-Kopp/Siemens/L&T				
2.2	250A, FP, Fuse-unit in sheet steel enclosure complete (For Common-Area-Meter, inside Meter-room)		No's	1		₹ 0
2.3	500A, FP, Fuse-unit in sheet steel enclosure complete (For Fire-Meter, inside Meter-room)		No's	1		₹ 0
2.4	250A, FP, Fuse-unit in sheet steel enclosure complete (For Alternate-Fire-Meter, outside Meter-room)		No's	1		₹ 0
3	Main-MV-Circuit-Breakers Before & After Main-Changeover-Panel (between Fire-Meter & Main-Changeover-Panel, between Common-Area-Meter & Main-Changeover-Panel AND between Main-Changeover-Panel & Other-Main-MV-Panels, Cost must be including of using necessary Cu/AL glands/lugs for wire termination):	MCCB : IndoAsian/Indo-Kopp/Siemens/L&T				
3.1	250A, FP, MCCB in sheet steel enclosure complete (After Main-Fire-Meter but before Main-Changeover-panel, outside Meter-room @ location of Main-Changeover-Panel)		No's	1		₹ 0
3.2	250A, FP, MCCB in sheet steel enclosure complete (After Alternate-Fire-Meter but before Main-Changeover-panel, outside Meter-room @ location of Main-Changeover-Panel)		No's	1		₹ 0
3.3	250A, FP, MCCB in sheet steel enclosure complete (After Main-changeover-panel/switch but before Distribution-Panel-1, outside Meter-room but @ location of Distribution-Panel-1/Fire-System-Panel)		No's	1		₹ 0
3.4	500A, FP, MCCB in sheet steel enclosure complete (After Common-Meter but before Distribution-Panel-2, outside Meter-room but @ Location of Distribution-Panel-2/Common-Area-Panel)		No's	1		₹ 0
3.5	200A, FP, MCCB in sheet steel enclosure complete, for Fire-panel (After Distribution-Panel-1/Fire-System-Panel but before Fire-Panel, outside Meter-room @ location of Fire-Panel)		No's	1		₹ 0
4	BUILDING's OTHER MAIN-MV-CABLES (Fire-Meter To Main-Changeover-Panel, Common-Area-Meter To Main-Changeover-Panel AND Main-Changeover-Panel To Other-Main-MV-Panels): Supplying, laying, testing and commissioning of 1100V grade XLPE insulated PVC sheathed steel wire/tape armoured Alluminium/ copper conductor cables with required glands/lugs. The cables shall be laid in concrete trenches (belowground) or in PVC pipes (underground) or on cable trays. Making of concrete trenches will be in scope of civil contractor. The cost of the cable trays or ladders will be measured separate. But cost of excavation and back filling of underground pipes to be included in cable cost. The unit cost of the cable shall include glands, clamps, fasteners etc. as required for proper installation.	1100V LT XLPE FRLS AL/Cu Cables: Polycab/Finolex/RR				
4.1	3.5C * 120 sqmm XLPE Cable with glands, 2 runs (from Main-Fire-Meter to Main-Changeover-Panel.....231KW)		Mtr's	20		₹ 0
4.2	3.5C * 120 sqmm XLPE Cable with glands, 2 runs (from Alternate-Fire-Meter to Main-Changeover-Panel.....231KW)		Mtr's	20		₹ 0
4.3	3.5C * 120 sqmm XLPE Cable with glands, 2 runs (Main-changeover-switch/panel To Distribution-Panel-1/Fire-System-Panel.....231KW)		Mtr's	20		₹ 0
4.4	3.5C * 120 sqmm XLPE AL cable (Common-Area-Meter To Distribution-Panel-2/Common-Area-Panel.....100KW)		Mtr's	20		₹ 0
4.5	3.5C * 70 sqmm XLPE AL cable, 2 runs (Distribution-Panel-1/Fire-System-Panel To Fire-Panel.....166KW)		Mtr's	20		₹ 0
Total of "Other Main-MV-Cables AND Fuse-Units/Main-MV-Circuit-Breakers" (E):						₹ 0
F	MV cables/wires in Common-Area-Distribution-System of Building					
1	COMMON-AREA CABLES/WIRES (For Basement/Stilt/Podiums/Compound-area/Stair-case/Lift-lobbies/Refuse-floors/Fire-check-floors/Service-Floors/Terrace lightings): Providing all materials, accessories, floor-level-connector/floor-level-switch and labour for wiring with conduits and accessories for circuit-main using PVC insulated stranded copper conductor wires of 650V grade drawn through heavy gauge rigid PVC conduit using necessary conduit accessories, PVC pull / junction boxes, clamps etc. The rate shall include the cost of providing PVC insulated stranded copper conductor earth-wire in each conduit along with other circuit-main-wires, light holders etc. complete. All MCCBs/MCCBs cost must be including of using necessary Cu/AL glands/lugs for wire termination. <i>Note: For any common-area wiring in the project, a separate "Neutral wire" MUST BE installed while laying "each Phase" i.e. each Phase MUST have it's own separate "Neutral wire". A common single "Neutral wire" CAN NOT be laid for all Phases being laid in the common-areas.</i>	2mm thick Conduit: Precision, 650V PVC insulated FRLS AL/Cu Cables: Polycab/Finolex/RR, MCB : IndoAsian/Indo-Kopp/Siemens/L&T				
1.A	GROUND-FLOOR CONNECTIONS (On Ground-Floor-Lighting-DB):					

1.A.1	4C * 6 sqmm XLPE Cu cable (from Fire-System-Panel to Lighting-DB of Gr. Floor). <i>Note: Lighting-DB of Ground-floor controls supplies to Stilt/Compound-area/Stair-case/Lift-lobbies/Refuse-floor/Fire-check-floors/Service-floors/Terrace.</i>		Mtr's	10		₹ 0
1.A.2	63A, 4P, 10kA, MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Three-phase line. (as Isolator between Fire-System-Panel & Ground-Floor-Lighting-DB, just next to Ground-Floor-Lighting-DB)		No's	1		₹ 0
1.A.11	Ground-floor Meter-rooms, Panel-Room, LV-room, Pump-Room & Servant-toilet (Control must be on @ Ground-floor-Lighting-DB, using 1 MCB each - 5 MCBs in total): Circuit Main Wiring from Gr.-Floor-Lighting-DB (MCB) to Meter-room-switch-box/Panel-room-switch-box/LV-room-switch-box/Servant-toilet-switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box included but without switches. <i>Note: This is wiring from DB to switch-box.</i>		Mtr's	5		₹ 0
1.A.12	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit.		Nos.	2		₹ 0
1.A.13	Secondary light point with 2x1.5sqmm Cu wires in 20mm PVC conduit & required holder etc. complete. <i>Note: This is wiring from one light-point to other light-point. Both lights to be controlled by same switch only.</i>		Nos.	2		₹ 0
1.A.14	Exhaust fan point (socket) with 2x1.5sqmm Cu wires in 20mm PVC conduit, from main-switch-box to exhaust-fan-socket/ceiling-rose. This point must be inclusive of switch & 6A socket/ceiling-rose as per location mentioned in plans.		No's	1		₹ 0
1.A.15	6Amp socket on switch board with 6A switch. <i>Note: On existing Switch-Box only.</i>		Nos.	2		₹ 0
Water Level Indicators (Sensors) for Dewatering-Sump-Pumps & Sewage-Drainout-Pumps in Basement:						
1.B.21	For Water Level Controllers & Indicators (for the pumps discharging water from Basement-Dewatering-Sump-pit to SWD-on-Ground-floor): 2 x 2.5 sqmm + 1 x 1.5 sqmm (earth) Cu wires in 20mm dia PVC conduit, clamps and other necessary accessories ect. complete (from Dewatering-Sump-pit-TO-Pump-panel). Fixing of level-sensors are also in scope of contractor.	<i>Note: Controller & Indicator to be supplied by client free of cost.</i>	Mtr's	50		₹ 0
1.B.22	For Water Level Controllers & Indicators (for the pumps discharging sewage-water from Basement-Sewage-Sump-pit to Sewage-Chamber-on-Ground-floor): 2 x 2.5 sqmm + 1 x 1.5 sqmm (earth) Cu wires in 20mm dia PVC conduit, clamps and other necessary accessories ect. complete.(from Sewage-Sump-pit-TO-Pump-panel). Fixing of level-sensors are also in scope of contractor.		Mtr's	50		₹ 0
1.D LIFT-LOBBIES & STAIR-CASE CONNECTIONS (On Ground-Floor-Lighting-DB, using 2 MCBs):						
1.D.1	2 x 4 sqmm Cu wires in 20mm dia PVC conduit (From MCB-in-Ground-Floor-Lighting-DB To Terrace-Floor-MV-duct-MCBs)		Mtr's	52.85		₹ 0
Lift-Lobbies other than the Gr. Floor Lift-Lobby AND Staircase (Lift-Lobby lights must also be on 2 different Phases AND Staircase Landing & Midlanding must be on Two different Phases. Dividing half lobby lights on one phase & other half lights on 2nd phase):						
1.D.3	16A, 2P, 10kA, MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (On every floor, for Lift-lobby & Staircase lights, Inside MV-duct)		No's	12		₹ 0
1.D.4	2 x 1.5 sqmm Cu wires in 20mm dia PVC conduit (From each-floor-MCB to each-light on Lobby/Staircase)		Mtr's	1731.12		₹ 0
1.D.5	Providing & Fixing Light-holders and other necessary accessories for Lights		No's	465.6		₹ 0
1.E REFUSE-AREA & TERRACE CONNECTIONS (On Ground-Floor-Lighting-DB, using 2 MCBs):						
1.E.1	2 x 4 sqmm Cu wires in 20mm dia PVC conduit (From MCBs-in-Gr.Floor-Lighting-DB to MCBs-in-MV-duct-for-1st-Refuse-area)		Mtr's	23.6		₹ 0
Refuse-Area Lights (2 Phases must be used for lighting. Dividing half lights on one phase & other half lights on 2nd phase):						
1.E.3	16A, 2P, 10kA, MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside MV-duct, at each Refuse-Floor)		No's	1		₹ 0
1.E.4	2 x 2.5 sqmm Cu wires in 20mm dia PVC conduit (From MCBs-in-MV-duct-for-Refuse-area to Refuse-area-MCBs)		Mtr's	7.4		₹ 0
1.E.5	16A, 2P, 10kA MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside each Refuse-area)		No's	1		₹ 0
1.E.6	2 x 1.5 sqmm Cu wires in 20mm dia PVC conduit (From Refuse-area-MCBs to All-lights-on-refuse-area, All light points to be controlled by MCB only)		Mtr's	33.01		₹ 0
1.E.7	Providing & Fixing Light-holders and other necessary accessories for Lights		No's	10		₹ 0
1.E.8	Circuit Main Wiring from Refuse-area-MCB. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box included but without switches. <i>Note: This is wiring from MCB to switch-box.</i>		Mtr's	10		₹ 0
1.E.9	6Amp socket on switch board with 6A switch. <i>Note: On existing Switch-Box only. At Refuse-area.</i>		Nos.	3		₹ 0
Terrace Lights ((Tapping/connection must be from Refuse-Area-Power-Lines):						
1.E.10	2 x 2.5 sqmm Cu wires in 20mm dia PVC conduit (From Nearest-Refuse-floor-MCB-in-MV-Duct To Terrace-level-MV-duct-MCB, for Terrace-floor lights)		Mtr's	15.5		₹ 0
1.E.11	16A, 2P, 10kA, MCB, in PVC enclosure, on wall with testing and commissioning etc. as required for Single-phase line. (Inside MV-duct, at Terrace-floor). <i>Note: This separate MCB at Terrace-floor-MV-Duct is provided for local control.</i>		No's	1		₹ 0
1.E.12	2 x 1.5 sqmm Cu wires in 20mm dia PVC conduit (From Terrace-area-MCBs to All-lights-on-terrace-floor, All light points to be controlled by MCB only)		Mtr's	20		₹ 0
1.E.13	Providing & Fixing Light-holders and other necessary accessories for Lights		No's	2		₹ 0
Total of "MV cables/wires in Common-Area-Distribution-System of Building" (F):						₹ 0

G		Other Small Distribution Boards (DBs) for Building's Common-areas						
		Design, supply, installation, testing and commissioning of following miniature type circuit breaker distribution boards, wall mounted (flush with wall surface), IP-42 protection and as per drawings, specifications & as required. The distribution board shall be of sheet steel enclosure with copper busbars suitable for single phase or three phase MCBs. The MCBDB shall have sheet steel hinged lockable door top to prevent access to MCBs from outside. The DB shall have suitable neutral and earth terminal block to facilitate easy termination of wires. All wires inside the DBs shall be terminated using Cu/AL end terminations. Rates of items/works must be inclusive of wire termination using necessary Cu/AL glands/lugs. All DBs shall be of double door type.		DBs: IndoAsian/Indo-Kopp/Siemens/L&T, RCBO-MCB-RCCB: IndoAsian/Indo-Kopp/Siemens/L&T				
1		GROUND-FLOOR LIGHTING-DB for Compound/Still/Gr.-Floor-Lobby/Gr.-Floor-Cleaning-Point/Meter-room/Panel-room/LV-room/Pump-room/Gr-Floor-Servant-toilet/Watchman-cabin/All-Habitable-Floor-Chajja-lighting/All-Floor-Lobbies/Staircase/Refuse-Area/Service-Floor/Fire-Check-Floor/Terrace/Midlanding-Servant-Toilets/Air-Craft-Warning-System/Water-Level-Indicators/Facade-Lighting (TPN DB.....To be fixed at Meter-room)			No's	1	₹ 0	
		Incomer having:						
		One(1) - 63A, 3P, 10kA MCB (Isolator)						
		Three(3) - 40A, DP, RCCB, 100mA						
		Outgoing feeders:						
		Twenty-Two(22) -16A, SP, 10kA, MCB						
Total of "Other Small Distribution Boards (DBs) for Building's Common-areas" (G):							₹ 0	
H		Lifts (Passenger-Lifts)						
1		PASSENGER-LIFTS						
1.1		63A FP MCB with required lugs/glands, other accessories & PVC encloser (Cut-off near Lift-Meter in Meter-room, for supply to Lift-Controller/Lift-Panel)			No's	3	₹ 0	
1.2		16A TP MCB with required lugs/glands, other accessories & PVC encloser (Cut-off near Lift-Meter in Meter-room, for supply to Lift-Cabin-Light/Shaft-Light)			No's	3	₹ 0	
1.3		4C * 16 sqmm Cu Armoured Cable with required accessories (from Fire-System-Panel/Common-Area-Panel to Passenger-Lift-Panel.....Fire-Lifts to get connection from Fire-System-Panel AND General-Lifts to get connection from Common-Area-Panel)			Mtr's	QRO		
1.4		4C * 10 sqmm Cu Armoured Cable with required accessories (from Fire-System-Panel/Common-Area-Panel to Passenger-Lift-Panel.....Fire-Lifts to get connection from Fire-System-Panel AND General-Lifts to get connection from Common-Area-Panel)			Mtr's	158.55	₹ 0	
1.5		4C * 6 sqmm Cu Armoured Cable with required accessories (from Fire-System-Panel/Common-Area-Panel to Passenger-Lift-Panel.....Fire-Lifts to get connection from Fire-System-Panel AND General-Lifts to get connection from Common-Area-Panel)			Mtr's	QRO		
1.6		3C * 2.5 sqmm Cu Armoured Cable with required accessories (From Fire-System-Panel/Common-area-panel to DB-in-LMR to Passenger-Lift-Shaft, 2 runs, for Shaft lighting & Power-socket.....Fire-Lifts to get connection from Fire-System-Panel AND General-Lifts to get connection from Common-Area-Panel)			Mtr's	QRO		
1.7		3C * 2.5 sqmm Cu Armoured Cable with required accessories (From Lift-room to Mid-point-of-lift-shaft, for Elevator lighting)			Mtr's	63.87	₹ 0	
1.8		25 x 6mm Cu strip as Earthing-Busbar-of-Each-Lift in the Lift-room.....One Busbar-strip for each-Lift (with 14 holes, for earthing-wires of lift-equipments/lift-panels to be connected to Earthing-Busbar-of-Each-Lift in the Lift-room).			No's	3	₹ 0	
1.9		8 SWG Cu Wire. From each Lift-equipment/Lift-panel to Earthing-Busbar-of-Each-Lift in the Lift-room AND then Earthing-Busbar-of-Each-Lift to Meter-room-Earthing-Busbar, separate for each-lift. <i>Note: This must run thru Lift-Shaft (double), from Lift-panel to Meter-room, along with lift power-cables.</i>			Mtr's	317.1	₹ 0	
1.10		Light point controlled by switch board, with switch, switch-box, grid plate, face plate and other accessories as required etc. complete. With 2 x 1.5 sqmm Cu wires in 20mm PVC conduit. (For Bulk-head light)		2mm thick Conduit: Precision, PVC insulated AL/Cu Wires&Cables: Polycab/Finolex/RR, DBs: IndoAsian/Indo-Kopp/Siemens/L&T, RCBO-MCB-RCCB: IndoAsian/Indo-Kopp/Siemens/L&T,	No's	51	₹ 0	
1.11		Supplying & Fixing 9 watt Bulk-head light fitting in Passenger lift shafts.		Bulkhead:Philips/Havells, Switches: Anchor-Roma/Vinay/GM, Cu Busbar: Ashirwad/SDK	No's	51	₹ 0	
1.12		6/16Amp socket on switch board with 16A switch. With 2 x 1.5 sqmm Cu wires in 20mm PVC conduit. (Shaft-power-point)			No's	3	₹ 0	
1.13		6/16Amp power sockets with 16A switch with back boxes, grid plates, face plate and other accessories as required (inside Lift shaft, at mid-point-of-lift-shaft, for elevator-lighting-connection)			No's	3	₹ 0	
1.14		Passenger-Lift Panels/DBs (All Panels/MCBs/MCCBs cost must be including of using necessary Cu/AL glands/lugs for wire termination):			No's	3	₹ 0	
		Incomer feeder (for Lift-Panel):						
		One(1) - 63A, 4P, 10kA, MCB						
		Outgoing feeder (for Lift-Panel):						
		One(1) - 63A, 4P, RCBO, 300mA						
		&						
		Incomer feeder (for Lift-Cabin-Light/Shaft-Light):						
		One(1) - 16A, DP, ELCB, 300mA						

	One(1) - 16A, DP, RCCB, 300mA					
	Outgoing feeders (for Lift-Cabin-Light/Shaft-Light/Lift-room-light):					
	Three(3) - 16A, DP, 10kA, MCB					
	Passenger-Lift-Room-Light Connections:					
1.15	Circuit Main Wiring from Lift-room-Lighting-MCB to LM-room-switch-box. With 2x2.5sqmm + 1x1.5sqmm(earth) Cu wires in 20mm PVC conduit with required accessories & switch-box included but without switches. <i>Note: This is wiring from MCB to switch-box.</i>		Mtr's	15		₹ 0
1.16	Light point controlled by switch board, with switch & light-holder. With 2x1.5sqmm Cu wires in 20mm PVC conduit.		Nos.	2		₹ 0
1.17	6Amp socket on switch board with 6A switch. <i>Note: On existing Switch-Box only.</i>		Nos.	2		₹ 0
1.18	Exhaust fan point with 2x1.5sqmm Cu wires in 20mm PVC conduit, from Lift-room-Lighting-switch-board to exhaust-fan-socket/ceiling-rose. This point must be inclusive of switch & 6A socket/ceiling-rose as per location mentioned in plans.		No's	1		₹ 0
Total of "Lifts" (H):						₹ 0
J	Parking Systems (Stack-Parking / Puzzle-Parking / Parking-Tower)					
Total of "Parking Systems" (J):						₹ 0
K	Pumps for Domestic-tank, Flushing-tank & Borewell/Well/RWH-tank etc. AND Water Level Indicators					
1	Domestic, Flushing & Borewell Pumps (GI pipes to be used for embedment of cable in flooring):					
1.1.1	4C * 4 sqmm Cu Armoured Cable (from Common-Area-Busbar/Panel to Each-Domestic-pump-starter-panel)	PVC insulated AL/Cu Wires&Cables: Polycab/Finolex/RR, MCB : IndoAsian/Indo-Kopp/Siemens/L&T, GI Pipes: TATA/Jindal	Mtr's	15		₹ 0
1.1.2	25A TP MCB with required lugs/glands, other accessories & PVC encloser (For Domestic Pumps, as Isolator between Common-Area-Busbar/Panel and Pump-panel, just next to Pump-Panel)		No's	3		₹ 0
1.2.1	4C * 4 sqmm Cu Armoured Cable (from Common-Area-Busbar/Panel to Each-Flushing-pump-panel)		Mtr's	30		₹ 0
1.2.2	25A TP MCB with required lugs/glands, other accessories & PVC encloser (For Flushing Pumps, as Isolator between Common-Area-Busbar/Panel and Pump-starter-panel, just next to Pump-Panel)		No's	3		₹ 0
1.3.1	4C * 4 sqmm Cu Armoured Cable (from Common-Area-Busbar/Panel to Each Borewell/Well/RWH-Tank Pump-starter-panel)		Mtr's	5		₹ 0
1.3.2	25A TP MCB with required lugs/glands, other accessories & PVC encloser (For Borewell/Well/RWH-Tank Pumps, as Isolator between Common-Area-Busbar/Panel and Pump-starter-panel, just next to Pump-Panel)		No's	1		₹ 0
2	Water Level Indicators (Sensors) for OH-Tanks/UG-Tanks:					
2.1	For Water Level Controllers & Indicators (for the pumps supplying water from UG-Domestic-Tank to OH-Fire-Tank): 2 x 2.5 sqmm + 1 x 1.5 sqmm (earth) Cu wires in 20mm dia PVC conduit, clamps and other necessary accessories ect. complete (from UG-Domestic-Tank-TO-Pump-panel AND Pump-panel-TO-OH-Fire-Tank). Fixing of level-sensors are also in scope of contractor.	2mm thick Conduit: Precision, PVC insulated AL/Cu Cables/wires: Polycab/Finolex/RR. Note: Controller & Indicator to be supplied by client free of cost.	Mtr's	50		₹ 0
2.2	For Water Level Controllers & Indicators (for the pumps supplying water from UG-Flushing-Tank to OH-Flushing-Tank): 2 x 2.5 sqmm + 1 x 1.5 sqmm (earth) Cu wires in 20mm dia PVC conduit, clamps and other necessary accessories ect. complete (from UG-Flushing-Tank-TO-Pump-panel AND Pump-panel-TO-OH-Flushing-Tank). Fixing of level-sensors are also in scope of contractor.		Mtr's	50		₹ 0
2.3	For Water Level Controllers & Indicators (for the pumps supplying water from Borewell/Well/RWH-Tank to OH-Flushing-Tank): 2 x 2.5 sqmm + 1 x 1.5 sqmm (earth) Cu wires in 20mm dia PVC conduit, clamps and other necessary accessories ect. complete (from Borewell/Well/RWH-Tank-TO-Pump-panel AND Pump-panel-TO-OH-Flushing-Tank). Fixing of level-sensors are also in scope of contractor.		Mtr's	50		₹ 0
3	8 SWG. G.I. Earthing Wire (For earthing to Domestic/Flushing/Borewell/Well/RWH/Sump/STP/Swimming-Pool/Solar-Panel-cleaning/Water-fountain pump-panels.A Earthing-Busbar is provided near Pump-panels. This wire connects Each-Pump-Panel to This-Earthing-Busbar. And thereafter this wire connects the Earthing-Busbar to Meter-room-Earthing-Busbar. This wire to run along with main-power-cables for pump).		Mtr's	50		₹ 0
4	Earthing-Busbar (for pumps): Supply, installation, testing and commissioning of 50x6mm GI equipotential-bar of 600mm length in 300x300x750 mm PVC junction box, with reqd. number of holes.		No's	1		₹ 0
Total of "Domestic, Flushing, Borewell & Basement-dewatering Pumps" (K):						₹ 0
L	Lightning Arrester and Air Craft Warning System					
1	Lightning Arrester:					
1.1	Providing and installation of air terminations copper conductor 3/5 spikes for lightning conductor with mounting base frame etc, working on Controlled Early Streamer Emission Air terminal principal. The spike shall be mounted above terrace level in approved manner using base-plate, clamps and 50mm dia GI pipe etc. complete. (Minimum 3m above terrace level)	OBO/ERICO/ABB/ESE	No's	1		₹ 0
1.2	Down Conductor: Providing and laying 25 x 3mm Cu strip earthing conductor for Lightning Arrester including necessary accessories, clamping to walls, cables etc. as required and interconnection between lengths as per specifications and as per good installation practice. The rate shall include all supports, accessories and hardware necessary for proper installation. <i>Note: This must run thru MV-Duct, along with MV-cables being laid for Flats/offices, from Terrace-floor to Meter-room-Earthing-Busbar.</i>	Cu : Ashirwad/SDK	Mtr's	105.7		₹ 0

2	Air Craft Warning System:					
2.1	Air Craft Warning Lights (LED TYPE) with mounting base frame, base-plate, clamps & other necessary accessories ect. Complete.	Indelec/Geltronix/Geolights	No's	1		₹ 0
2.2	16A 2P MCB with required lugs/glands, other accessories & PVC encloser (For ACW, in Terrace MV-Duct)	MCB: IndoAsian/Indo-Kopp/Siemens/L&T	No's	1		₹ 0
2.3	3C * 2.5sqmm Armoured Cu cable , clamps and other necessary accessories ect. Complete. (For Air-Craft-Warning lights, from Ground-Floor-Lighting-DB to ACW lights)	2mm thick Conduit: Precision, PVC insulated AL/Cu Cables/wires: Polycab/Finolex/RR	Mtr's	55		₹ 0
Total of "Lightening Arrester, Water Level Indicators and Air Craft Warning System" (L):						₹ 0
M	Earthing System					
1	Providing, installing, testing and commissioning of GI pipe earthing station/pit using SSE 250 micron Copper Bonded Earth Rod, 3mtr long x 17.2mm dia , with necessary clamps, couplers and special back fill compound of 2bags of 23kg each for each earthing-pit. Scope of work includes excavation, back filling, construction of inspection chamber, chamber cover (20MT capacity C.I. covers), disconnecting link etc. complete. In conformity with IS 3043.	Chemical Earthing : JMV / Ashlok				
1.1	For Domestic Meters		No's	2		₹ 0
1.2	For Common-Area-Panels & Fire-Distribution-System-Panel		No's	2		₹ 0
1.3	For Fire-panel		No's	1		₹ 0
1.4	For Lightning-Arrester		No's	1		₹ 0
1.5	For Passenger-lifts		No's	3		₹ 0
1.10	For Solar-PV-Modules - Separate earthing for AC & DC circuits		No's	2		₹ 0
3	Providing and laying earthing conductors of GI strip/wire including necessary accessories, clamping to walls, cables etc. as required and interconnection between lengths as per specifications and as per good installation practice. The rate shall include all supports, accessories and hardware necessary for proper installation.	GI: Ashirwad/SDK				
3.1	50 x 6mm G.I strip.		Mtr's	QRO		
3.2	32 x 6mm G.I strip.		Mtr's	QRO		
3.3	25 x 6mm G.I strip (from Terrace to Meter-room-Earthing-Busbar, for earthing to all-floor-DBs). <i>Note: This strip to run thru MV-Duct, along with MV-cables being laid for Flats/offices, from Top-floor to Meter-room-Earthing-Busbar.</i>		Mtr's	110		₹ 0
3.4	8 SWD G.I. wire (double)		Mtr's	QRO		
3.5	1C * 6 sqmm Cu Armoured Cable with required accessories, thru electrical-shaft. <i>Note: For Solar-PV-System, from DCDB-&ACDB-placed-below-lift-machine-room to Earthing-pit, Separate cables for AC & DC circuits.</i>		Mtr's	QRO		
4	Providing and laying earthing conductors of copper strip/wire including necessary accessories, clamping to walls, cables etc. as required and interconnection between lengths as per specifications and as per good installation practice. The rate shall include all supports, accessories and hardware necessary for proper installation.	Cu: Ashirwad/SDK				
4.1	25 x 6mm Cu strip		Mtr's	QRO		
5	Earthing-Busbar: Supply, installation, testing and commissioning of 50x6mm Cu equipotential-bar of 600mm length in 300x300x750 mm PVC junction box (to connect, earthing-strips from any-earth-pit AND Cable/8-SWG-GI-wire coming for equipment earthing.....with reqd. number of holes).	Cu : Ashirwad/SDK	No's	1		₹ 0
6	Earthing-Busbar: Supply, installation, testing and commissioning of 50x10mm Cu equipotential-bar of 600mm length in 300x300x750 mm PVC junction box (to connect, earthing-strips from any-earth-pit AND Cable/8-SWG-GI-wire coming for equipment earthing.....with reqd. number of holes).	Cu : Ashirwad/SDK	No's	QRO		
Total of "Earthing System" (M):						₹ 0
N	Telephone, Intercom & TV					
Total of "Telephone, Intercom & TV" (N):						₹ 0
P	CCTV Cameras & Security System					
1	Supply & Instalation of Dome Camera , 600 TVL, 1/3" DIS, 20m IR Distance , ICR, 0.1 Lux/F1.2, 12 VDC, Smart IR, Wide operating temperature Range (-40°~60°), (2.8mm Lens)	Hikvision/Zicom	No's	30		₹ 0
2	Supply & Istallation of IP55 protection Bullet Camera , 600 TVL, 1/3" DIS, 30m IR Distance , ICR, 0.1 Lux/F1.2, 0.3 Lux/F2.3,12 VDC, Smart IR, Wide operating temperature Range (-40°~60°), IP66, 12/mmLens)	Hikvision/Zicom	No's	7		₹ 0
3	Supply & Istallation of DVR 72-channel video & 4-channel audio input, 4 SATA interfaces, WD1: 25(P)/30(N) fps/ch, alarm I/O: 16/4, 9U case, 19") (including 4TB Surveillance HD of Segate make)	Hikvision/Zicom	No's	1		₹ 0
4	Supply & Istallation of 12v, 40Amps, Regulated Power supply for cameras	ISI approved	No's	1		₹ 0
5	Supply & Istallation of 21" Color Monitor with 400 Lines.	Dell/Samsung	No's	1		₹ 0

6	Supply and laying of 4+1 for CCTV Camera wiring, in 25mm dia PVC conduit.	2mm thick Conduit: Precision, CAT6: Polycab/DLink	Mtr's	980.2		₹ 0
Total of "CCTV Cameras & Security System" (P):						₹ 0
Q	Fixing of Lights & Other Fixtures					
1	Street-light or Pole-light fixture (only fixing)	<i>Note: All such fittings to be supplied by client free of cost to contractor.</i>	No's	QRO		
2	Maingate Dome-light fixture (only fixing)		No's	QRO		
3	2 x 20W Bracket-light fixture (only fixing)		No's	QRO		
4	2 x 40W Bracket-light fixture (only fixing)		No's	QRO		
5	1 x 40W tube light fixture (only Fixing)		No's	QRO		
6	2 x 40W tube light fixture (only Fixing)		No's	QRO		
7	1 x 11W CFL light fixture (only Fixing)		No's	QRO		
8	1 x 11W LED light fixture (only Fixing)		No's	QRO		
9	Down/Spot/Ceiling Light fixture in false-ceiling of Entrance Lobby (only Fixing)		No's	QRO		
10	Ceiling-Fan fixture (only fixing)		No's	QRO		
11	Exhaust-Fan fixture (only fixing)		No's	QRO		
12	Geyser fixture (only fixing)		No's	QRO		
Total of "Fixing of Lights & Other Fixtures" (Q):						₹ 0
R	Ground Floor Electrical Works					
1	EXCAVATION & GROUND-FLOOR PIPE-LINES					
1.1	Misc. Excavation & Backfilling works upto required width & depth, at ground-floor, including dewatering (for MV)		Mtr's	6		₹ 0
1.2	Misc. Excavation & Backfilling works upto required width & depth, at ground-floor, including dewatering (for LV)		Mtr's	2		₹ 0
1.3	200 dia PVC pipe (6 kg/cm ² pressure capacity) supply and laying underground, with 100mm thick PCC bed (for MV)	PVC Pipe: Supreme/Prince	Mtr's	6		₹ 0
1.4	150 dia PVC pipe (6 kg/cm ² pressure capacity) supply and laying underground, with 100mm thick PCC bed (for LV)		Mtr's	2		₹ 0
2	CHAMBERS & CHAMBER-COVERS					
2.1	MV Chamber making works at ground-floor (with 100mm thick PCC bed, 150mm concrete block masonry and 15mm thick smooth plaster on both side)		No's	1		₹ 0
2.2	LV Chamber making works at ground-floor (with 100mm thick PCC bed, 150mm concrete block masonry and 15mm thick smooth plaster on both side)		No's	1		₹ 0
2.3	20MT weighing capacity FRP Covers (with required FRP frames) for MV chambers	FRP/SFRC/GRP/CI Cover: Everlast/Thermodrain/NECO/SS-Industries	No's	1		₹ 0
2.4	20MT weighing capacity FRP Covers (with required FRP frames) for LV chambers		No's	1		₹ 0
2.5	5MT weighing capacity FRP Covers (with required FRP frames) for MV chambers		No's	QRO		
2.6	5MT weighing capacity FRP Covers (with required FRP frames) for LV chambers		No's	QRO		
2.7	Only fixing of chamber-covers (labour only)		No's	QRO		
Total of "Ground Floor Electrical Works" (R):						₹ 0
S	Miscellaneous Items					
6	SOLAR PANEL AC CABLE (Inverter to AC_DB)					
6.1	4C * 6 sqmm Cu Armoured Cable with required accessories (from Inverter-placed-below-lift-machine-room to AC_DB-placed-below-lift-machine-room AND Inverter-placed-below-lift-machine-room to Main-grid-at-Meter-room thru electrical-shaft). <i>Note: DC cable (Solar-PV-modules to DC_DB & DC_DB to Inverter) to be in scope of Solar-Panel-vendor. Preferable, DC_DB, Inverter & AC_DB all must be placed below lift-machine-room @ terrace to avoid losses of power.</i>	PVC insulated AL/Cu Wires&Cables: Polycab/Finolex/RR, MCB : IndoAsian/Indo-Kopp/Siemens/L&T	Mtr's	50		₹ 0
6.2	40A FP MCB with required lugs/glands, other accessories & PVC encloser (Just before AC_DB, placed-below-lift-machine-room)		No's	2		₹ 0
7	SOLAR PANEL CLEANING					
7.1	3C * 2.5 sqmm Cu Armoured Cable (from Common-Area-Busbar/Panel to Pump-for-Solar-Panel-Cleaning)		Mtr's	10		₹ 0
7.2	25A DP MCB with required lugs/glands, other accessories & PVC encloser (For Pump-for-Solar-Panel-Cleaning, as Isolator between Common-Area-Busbar/Panel and Pump-starter-panel, just next to Pump-Panel)		No's	1		₹ 0
10	PLYWOOD IN METER-ROOM					
	IS: 5509 complying Fire-Retardant plywood-board and related necessary items in meter-room, panel-room & wherever required, for fixing of Fuse-units/Meters/Panels/DBs/MCCBs/MCBs, as per the specifications of power-supplying vendor.	IS: 5509 complying Fire-Retardant Plywood: Century Or equivalent	Sqmt	0.5		₹ 0
11	First Aid Box wih necessary medicines in meter room.		No's	1		₹ 0

12	Meter-room installation works and Other General Items mentioned in "Scope Of Work For Contractor" (fixing of Century/Orient/Nocteply make 19mm marine ply with all necessary accessories for fixing of Meters as per PWD specs, Painting it with Asian-paint as per PWD specifications, 6mm thick rubber matting of required size as per IS for 11kV insulation capacity for Panels, wherever required 440V danger sign stickers etc.) required 440V danger sign stickers etc.)		No's	1		₹ 0
13	Filling of switch-boxes using cars-board & POP, levelling it properly to cover the wires laid inside the box, removing all such things placed inside the switch-boxes AND collecting & throwing away the debris generated out of such works to the designated location at ground-floor complete, as instructed by Nexus E-in-C. All materials to be brought by contractor at his own cost to complete the required protection to wires.		Lumpsum	1		₹ 0
14	TEMPORARY ELECTRIFICATION WORKS					
	Supply, installation, testing and commissioning of Temporary Electrification works for Lights and Power-points (single-phase/3-phase 6/16 Amp points) on each-floor for construction-works AND for site offices of the PMC/ Clients (including fan/AC points), as directed by the Project Manager. This includes supply & maintenance of Lighting Fixtures, Switch sockets, Metal Clad Sockets, Distribution Boards, wires/cables, Isolators etc. to complete the works intended. Contractor to remove all such temporary works after completion & handing over of the site (as instructed by nexus E-in-C). Contractor to provide minimum 4 nos. 6A/16A power-point on each-floor and 2 nos. of lights (for each Wing/Staircase) on each-floor Staircase-area & Lift-lobby-area/Common-passage-area. Armured cable ONLY to be used for "temporary" main-supply-line (from construction-meter to all floors). Use of Wire will not be permitted for this purpose. Earthing also to be provided for the temporary supply line AND MCB cut-off (in waterproof PVC enclosure) must be provided at each floor from safety point-of-view.	PVC insulated AL/Cu Wires&Cables: Polycab/Finolex/RR, MCB: HPL/Indoasian	Lot	1		₹ 0
15	CORE-CUTTING WORKS. Note: Core-cutting for passing of electrical-cables thru beams/slabs is in scope of contractor. Hence, for electrical-works purpose, if any core-cutting is required to be done, such core-cutting works will be paid as per rates mentioned below. Core-cutting must be strictly done ONLY AFTER written permission from client's/PMC's project engineer. Contractor to note that while doing core-cutting in any RCC-member if core-cutting is required thru the "Plaster" done onto the RCC-member, "depth of the Plaster" will not be accounted for "Core-cutting-depth". ONLY the Core-cutting done thru RCC-member will be accounted as "Core-cutting depth".					
15.1	300mm dia core cutting with diamond-bit machine.		Per Inch Depth	QRO		
15.2	250mm dia core cutting with diamond-bit machine.		Per Inch Depth	QRO		
15.3	200mm dia core cutting with diamond-bit machine.		Per Inch Depth	QRO		
15.4	150mm dia core cutting with diamond-bit machine.		Per Inch Depth	QRO		
15.5	100mm dia core cutting with diamond-bit machine.		Per Inch Depth	QRO		
15.6	80mm dia core cutting with diamond-bit machine.		Per Inch Depth	QRO		
15.7	50mm dia core cutting with diamond-bit machine.		Per Inch Depth	QRO		
16	CORE-FILLING WORKS. Note: Core-filling (after passing electrical conduits/wires/cables) is in scope of contractor. Hence, if any core-filling works is required to be done, such core-filling work will be paid as per rates mentioned below.					
16.1	Grouting of core from 200mm dia to 300mm dia, with Fosroc/BASF make non-shrinkage grouts, if required.		No's	QRO		
16.2	Grouting of core from 50mm dia to 150mm dia, with Fosroc/BASF make non-shrinkage grout, if required.		No's	QRO		
Total of "Miscellaneous Items" (S):						₹ 0
T	Liaisoning with Govt. Departments					
1	Liaisoning work and preparation of necessary drawings and documents for Load sanctioning, release of Load, Electrical and PWD inspector's approval for all electrical works. NOTE : Govt., PWD, Electricity-Supplying-Agency's all deposits would be paid by Client, at his own cost. But contractor's quoted such price must include his own service-charges & all out-of-pocket expenses needed for obtaining below mentioned permission.					
1.10	3 phase Meter for Common area		No's	1		₹ 0
1.11	Normal fire fighting Meter		No's	1		₹ 0
1.12	Alternate fire fighting Meter		No's	1		₹ 0
Total of "Liaisoning with Govt. Department" (T):						₹ 0
Total Estimated Contract Value (A to T):						₹ 0

Note: Above rates to be excluding of GST. But must be inclusive of all other taxes, duties, royalties, transport, loading, unloading, lifting, shifting etc.