

BOQ FOR ELECTRICAL WORKS : SBI MAHOBEWALA DEHRADUN BRANCH.					
S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1	Wiring for the following light point/fan point/exhaust fan/light socket switch with 3x1.5 sq.mm copper conductor FRLS insulated 1100V grade multi strand wires(P+N+E) in concealed /surface using 20/25/32 rigid PVC conduit 16 SWG thick with all bend, tees, saddle mounting box, cover plate ceiling rose etc. wherever required etc. & cromium plate brass screw/rawl plug etc. The circuit wiring start from DB to point control box/switch box using 3x2.5 Sq.mm copper conductor FRLS LEAD FREE WIRE WITH RoHS Compliance insulated 1100V grade multi strand wires(P+N+E) identification ferrules at both end in PVC conduit 16 SWG thick complete in all respect. The conduit must be fixed with MS Saddle at every 80 cm on surface and conduit to be laid in ceiling with proper clamps/wall floor filling the chase with cement mortar and finish the same in original form/wooden partition above false ceiling chasses filled with cement mortar as required at site. Each circuit shall have separate earth wire. All switch socket must be for modular type with M.S. Boxes and plates etc. as required.				
	Note: Each circuit shall have independent earth wire. Each point shall be earthed. Circuit wiring is to be included in point rate wiring. (Please note that colour code- Red-Yellow-Blue wires for phases, Black wire for Neutral and Green wire for Earth must be used.)				
a)	One point controlled by one 6 amp modular one way switch	Nos.	30		
b)	Two point controlled by one 6 amp modular one way switch	Nos.	10		
c)	Three point controlled by one 6 amp modular one way switch	Nos.	3		
c)	Four point controlled by one 6 amp modular one way switch	Nos.	0		
d)	One call bell point with 6A 3 pin socket controlled by one 6A modular bell push switch and Anchor make bell of approved make.	Nos.	1		
e)	One wall fan controlled by one 6A modular one way switch, but switch at switch board level and 6A-5pin socket has to provide near the wall fan at designated place for connections.	Nos.	11		
f)	One exhaust fan controlled by 6A modular switch, but ceiling rose has to be provide near the exhaust fan for connection.	Nos.	2		
g)	One ceiling fan controlled by rotatory/step regulator and one 6A modular one way switch, but switch at switch board level and 6A- 5pin socket has to provide near the wall fan at designated place for connections.	Nos.	1		
(h)	one 5 pin socket controlled by one 6A, controlled by one 6A modular one way switch.				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
i)	Dependent Point	Nos.	6		
ii)	Independent Point	Nos.	3		
i)	Same as serial no 1, but Wiring with 2x2.5 sq.mm. + 1x2.5 sq.mm. PVC insulated 1100 V grade multi stranded copper conductor wires in 2 mm thick PVC conduit looped/supply from power point/ LDB/PDB to be fixed over the counters . Each point to have 2 nos. 6 amps. 5 pin modular type sockets, two 6 amps modular switch with all accessories, inner/ outer plates, metal box etc. and to be fixed on wooden partitions/ by grouting on wall etc. as per requirement at site. b) Same as above but looped from the above 1st point to 2nd. (Maximum 1 points in a circuit if looped from power point/Maximum 2 point per circuit if supply from DBs)				
a	Primary Point	Nos.	9.00		
b	Secondary Point looped	Nos.	9.00		
2	POWER POINTS				
a	Do-as above but using 2x4 Sq.mm copper conductor FRLS LEAD FREE WIRE WITH RoHS Compliance Wires for the first power point having to one nos 16A, 6 pin modular socket controlled by 16 A switch and one no. 6 pin modular socket controlled by 6A switch and second point looped with 2x4 Sq.mm copper conductor wires FRLS LEAD FREE WIRE WITH RoHS Compliance insulated 1100V grade(max. 2 points on one MCB). Earth wire shall be 4 Sq.mm copper conductor FRLS LEAD FREE WIRE WITH RoHS Compliance insulated wire.				
i)	Primary (1ST Point) point	Nos.	3		
ii)	Secondary (Looped) point	Nos.	3		
b	Same as serial no.1, but wiring for 16 Amp, 6-pin sockets with 6 Amp switch by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire with independent 1*4.0 sq.mm earth wire from D.B. to point including all accessories as required, for Cash, Locker, record & Stationary room. Cash, Locker, record & Stationary room to be connected through a lead or 3*2.5 sqmm pvc copper wire in a thick pvc pipe to outside with 16 Amp socket.. (Modular type switch/ socket/ plate etc. complete assembly) max 2 points per circuit.	Nos.	3		
c)	Same as serial no.1, but wiring for 16 Amp, 6-pin iron sockets with 25 Amp Sp MCB by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire with independent 1*4.0 sq.mm earth wire from D.B. to point including all accessories as required, for pantry (Modular type switch/ socket/ plate etc. complete assembly) max 2 points per circuit	Nos.	2		

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d)	Same as serial no.1, but wiring for 16 Amp, 6-pin sockets with 16 Amp switch by using 2*2.5 sq.mm. PVC insulated 1100 V grade copper conductor wire with independent 1*2.5 sq.mm earth wire from D.B. to point including all accessories as for glow sign board connection with 25 Amp DPMCB with ms box should be IP 65 rating weather proof to be placed on outside wall of Branch & ATM etc. complete in all respect. (Modular type switch/ socket/ plate etc. complete assembly) max 2 points per circuit.	Nos.	2		
3	AC POINTS				
(a)	Same as serial no.1, but wiring for A/C socket by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*4.0 sq.mm. PVC insulated 1100 V grade copper conductor wire including providing and fixing 32 amp 3 pin (phase, neutral and and earth) for 1 phase socket outlet with top controlled by 32 amp SP MCB. for 2Tand 25A SP MCB for 1.5T/1T Split ACs (Only one outlet shall be connected to each circuit).	Nos.	5		
(b)	Wiring for 1 Phase Cassete AC with 3*4 sq.mm+1*4.0 Sq.mm PVC insulated copper wire as earth Copper wire in M.S. conduit 25mm dia. of 16 SWG well thickness with including providing and fixing 40 amp TP MCB with weather proof box near by outdoor. Circuit connected from main panel 40 amp TPN MCB Feeder.	Nos.	0		
(c)	Wiring for 3 Phase Cassete AC with 4*6 sq.mm+2*6.0 Sq.mm PVC insulated copper wire as earth Copper wire in M.S. conduit 25mm dia. of 16 SWG well thickness with including providing and fixing 40 amp TP MCB with weather proof box near by outdoor. Circuit connected from main panel 40 amp TPN MCB Feeder.	Nos.	2		
4.0	CABLE MAINS & SUB-MAIN				
	Wiring for sub main in MS conduit with the following sizes of FRLS insulated, 1100V grade copper conductor wire in surface/recessed on wall/floor/ceiling as required.				
a)	4 x 6 Sq.mm + 2 x 2.5 Sq.mm (For LDB)	R.mtr.	25		
b)	2 x 6 Sq.mm + 1 x 2.5 Sq.mm (For UPS DB)	R.mtr.	65		
c)	4 x 10 Sq.mm + 2 x 4 Sq.mm (From Main Panel to UPS DB)	R.mtr.	30		
5.0	Supply, laying, testing and commissioning of 1100V grade XPLE Aluminium armoured cable with proper clamps along walls on existing cable trays/trench in ground etc. in an approved manner and as per follows.				
a)	4C x 25 Sq.mm (For PDB & ATM ,DG Set)	R.mtr.	25		
b)	4C x 16 Sq.mm (For UPS & PDB)	R.mtr.	30		

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
c)	4C x 10 Sq.mm (For LDB)	R.mtr.	27		
d)	3.5C x 50 Sq.mm (For DG & Meter to Main Panel)	R.mtr.	50		
e)	2C x 10 Sq.mm (For ATM Light & UPS Output from UPS Room & ATM DG Set)	R.mtr.	0		
6.0	Supplying and making ends terminal with brass compression glands and aluminium lugs for following size of XLPE insulated PVC sheathed aluminium conductor Armoured cable of 1.1 KV grade as required.				
a)	4C x 25 Sq.mm	Nos.	6		
b)	4C x 16 Sq.mm	Nos.	6		
c)	4C x 10 Sq.mm	Nos.	8		
d)	3.5C x 50 Sq.mm	Nos.	2		
7.0	Supply, Installation, Testing, Commissioning of surface / recessed mountings, Double door 415 volts TPN MCB Distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 200 amps, tinned copper busbars, earthbar, common neutral link, din bar for mounting of MCB'S detachable gland/knock out plate & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB'S as well as the incomer and up to the terminal connestors/neutral link and ready for installation of following wavs as required:				
a)	4-way TPN DB (For light) Incomer:- 1 No. 63 Amp TPN (10 KA) ELCB Outgoing:-3 Nos DP For Each Phase 6 Nos. 6 / 10 Amp (10 KA) SP/DP MCB 'C' Series (for switch boards) 6 Nos. 10 / 25 Amp (10 KA) SP/DP MCB 'C' Series (for light plug points) Blanking plates.SP/DP MCB as per site requirement.	Nos.	1		
b)	4-way TPN DB (FOR POWER) Incomer:- 1 No. 100 Amp TPN (10 KA) MCB Outgoing:- 6 Nos. 25 Amp (10 KA) SP/DP MCB 'C' Series (for primary power point) 6 Nos. 32 Amp (10 KA) SP/DP MCB 'C' Series Blanking plates. SP/DP MCB as per site requirement.	Nos.	1		
c)	4-way TPN DB (AC) Incomer:- 1 No. 63 Amp TPN (10 KA) MCB with 63 A TPN RCCB (30 ma) Outgoing:-	No.	0		

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	3 No. 40 Amp (10 KA) DP MCB 'C' Series, 3 NO. 32 AMP (10 KA) DP MCP 'C' Series				
d)	4-way V-TPN DB (AC)	No.	1		
	Incomer:-				
	1 No. 63 Amp 4 Pole (16 KA) MCCB				
	Outgoing:-				
	2 No. 40 Amp (16 KA) TP MCB				
	6 Nos.25/32 Amp (10 KA) SP MCB				
e)	4-way TPN DB (UPS ROOM)	No.	1		
	Incomer:-				
	1 No. 63 Amp TPN (10 KA) MCB as Incomer				
	Outgoing:-				
	1 Nos. 40 Amp (10 KA) TPN MCB, For UPS				
	1 Nos. 40 Amp (10 KA) DP MCB, For UPS				
	2 Nos. 25 Amp (10 KA) SP MCB, For Split AC				
	4 Nos. 6/10/16 Amp (10 KA) SP MCB, For Lights, Power,CCTV, fire alarm & spare				
f)	12-way SPN DB (for UPS/light/power Sub DB)	Nos.	2		
	Incomer:-				
	1 No. 40 AmpDP RCCB (30 ma)				
	Outgoing:-				
	10 Nos.- 6/10/16 Amp (10 KA) SP MCB				
g)	8 way SPN DB (For ATM DB with lock & key arrangement)	Nos.	0		
	Incomer:-				
	1 No. 40 Amp DP (10 KA) MCB with 40A DP RCCB (30 ma)				
	Outgoing:-				
	4 Nos. 6/10/16/25 Amp (10 KA) SP MCB 'C' Series				
h)	4way SPNDB with 1 x 25 / 32A DP ELCB (For UPS OUTGOING)	Nos.	0		
i)	32 A changeover MCB with all accesoories	Nos.	0		
8	MAIN PANEL & METER BOARD				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Designing, fabrication, supply, installation, testing and commissionings of front operated cubicle type compartmentalised, front access, free standing on 75MM "I" MS channel, dust and vermin proof (IP 42 degree protection) panel suitable for use at 415V, 3 phase, 4-wire 50Hz system suitable for fault level of required value symmetrical at 415V fabricated from 2mm thick CRCA MS sheets with hinged, gasketted (Metal based neoprene) locable doors having structural reinforcement including 3mm thick gland plates on top and bottom, lifting hooks, GI earth strip of required size with 2 nos earth terminals, 2 nos 230V AC operated 250mm X 250mm size axial fans for exhaust of heat with On-Off toggle switches including 2 coated primer and 2 power coated paint finish of approved shade over metal surface cleaned and treated with seven tank process complete with interconnections etc as per specifications as required. main panel board of approved make (KAPTON POWER)				
	All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The busbars insulation shall be with heat shrinkable sleeves SMC/DMC shrouds and busbar supports shall be used. Padlocking facility shall be provided on all outgoing feeders doors and switch handles shall be locable in OFF position.				
	Suitable arrangement shall be made for termination of multiple incoming cables.				
	All kA values indicated shall be Ics breaking capacity				
	GA drawings shall be got approved by SBI				
a	Fabrication, supply, installation, testing and commissionings of cubicle type floor/wall mounted L.T. panel made out of 2 mm thick CRCA sheet including connection, inter-connection along with 4 strip cu busbar as per CPWD specifications, (Part IV-Sub-station) etc. as required. (Meter Board)				
	Incoming :-				
	1 No. 125 Amps, TPN MCCB (25 KA) with extendable rotary handle each thermal over current, instantaneous, Short circuit release, Earth fault.				
	ii) Busbar :-160 Amps 4P copper conductor bus bar (BPTM type Heat-shrinkable busbar insulation) supported by DMC / FRP insulators.				
	Complete panel described as above.	Set	1		
b.	Floor panel shall consists of : -				
	INCOMER				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	1no. 125 Amp 4P On Load Change over switch with 2 No. 125 Amps, TPN MCCB (25 KA) with extendable rotary handle each thermal over current, instantaneous, Short circuit release, Earth fault.				
	BUSBARS				
	200 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips.				
	INDICATING PANEL				
	Digital flush type class-1.0 accuracy multifunction meter showing V, A, PF etc. with 3 Nos. current transformers of 125/5A ratio, 15 VA Class-1.0 metering. - 1 sets				
	Red/Green/Amber ON/ OFF/ TRIP indicating lamps with 2A SP MCB backup protection.				
	1 set of three phase indicating lamps along with 2A SP MCB backup protection.				
	Restricted Earth fault relay with 3 Nos. current transformers of 125/5 ratio, 10 VA Class 5P 10 (Numeric Relay not required.)				
	Undervoltage, Overvoltage & phase reversal relay for persisted voltage of 105-180% & 20-95% of rated voltage (Numeric Relay not required).				
	OUTGOINGS:-				
	3 Nos 63A TPN MCCB (25 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For capacitor Bank, power & UPS)				
	2 Nos 63 A TPN MCCB (25 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. For AC VTPN & spare)				
	3 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB & spare)				
	3 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars (for external light , glow sign board and spare)				
	The electrical panel as described above and specifications complete.	Set	1		
9.0	Supplying, installation, testing & commissioning of 15 KVAR, APFC Panel autooperation and power factor should be nearing unity complete as required including all contactors, relays, indicating units etc. as required at site". Capacitor make: L&T/ ABB/ Siemens/ Neptune	Set	1.00		
a	1No.100A,TP, MCCB as incomer				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
b	2 Nos. 25A 3P contactor				
c	2 Nos. 25A MCB				
d	1no. 10 KVAR & 1no 5 KVAR Capacitor				
e	Suitable bus bar for connecting the contactors and MCB's, Capacitors				
f	1 no. 4 step APFC relay suitable for above arrangement				
g	ON/OFF/TRIP push button for each capacitor				
h	ON/OFF/TRIP indication lamp for each capacitor				
i	1 Set, RYB, indicating lamps with resistors and fuses for incomer.				
	Full Set as above				
10.0	Supply, installation, testing, erection, testing & commissioning of lighting luminaries complete with dual support chain/hooks from roof with cold rolled sheet steel aluminium brass housing duly stove enamel painted, reflector, opal acrylic/polystyrene louvers cover or metallic reflector/louvers, with Electronic ballast, LED,T5, CFL, Lamp holders, starters, MS clamps etc. as required in case of recess mounting fixtures) with tube/lamp and duly wired etc. as required. (CG/Halonix/Havells/Philips/Jaguar/GE)				
a)	Square modular 2'x2' with 36W LED complete with all accessories & constant current electronic driver as per Cat No Philips-RC 380/ GE-Mapple (with 3 years replacement warranty).	Nos.	15		
b)	Down lighters as per Cat No.Philips-BBS 170 1xD LED-5000, PSU WH/Halonix-HLDRL-01-15-CN 15W / equivalent GE/CG (with 3 years replacement warranty).	Nos.	30		
c)	19W - LED tube 1200 mm	Nos.	15		
d)	ENDURA LIGHT SQ SWIVEL	Nos.	0		
e)	Led strip light (5mtr.)	Nos.	5		
f)	Supplying, fixing, testing and commissioning of 50 W LED commercial type street light with required assembly of make As specified in tender document or approved by SBI/Architect.	Nos.	0		
ii	FULL GLOW 2 X 2 LED 36 W ceiling mounted Panel of make As specified in tender document or approved by SBI/Architect.	Nos.	0		
g)	Supply & installation of METAL wall bracket fan of sweep in 450 mm complete with fan motor, blades and all accessories etc. CG-HIGH FLO/USHA-MISTAIR/BAJAJ-MIDEA.	Nos.	11		
h)	Supplying and installation of under note sizes of heavy duty exhaust fans complete with fan motor, blades fixing frame, louver etc as required.				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
i)	300 mm exhaust fan 1400 RPM (G. Toilet, L.Toilet & Pantry)	Nos.	2		
j)	ceiling fan 1200mm (metal body only) (CG/usha/orient/havells or as directed by the Bank) (For Locker room,Stationary room/Cash Room/Record room)	Nos.	1		
k)	Providing and fixing Philips/Bosch make 6W speakers including wiring with 2 core, 0.75 sq.m. PVC insulated copper conductor wires in concealed or exposed PVC conduits as directed.	Nos.	8		
11.0	UPS POINT WIRING				
i)	Wiring with 3x2.5 Sq.mm PVC insulated,1100V grade copper conductor FRLS LEAD FREE WIRE WITH RoHS Compliance wires in 2 mm thick PVC Conduit from UPS DB to computer points. Each point to have 3 no. 6A 5 pin modular type socket at below the top of table/counter and controlled by one 6A modular switch and one 6A indicator at above the table top in wooden partition / wall with all accessories. Inner/outer plates, metal / PVC box etc and to be fixed on wooden partition/by grouting on wall etc. as per site requirement.	Nos.	9		
ii)	Same as above but looped from first point & from first point to second point in a circuit including first point.	Nos.	8		
iii)	Wiring with 2x2.5 sq.mm + 1x2.5 sq.mm PVC insulated 1100 V grade multi stranded copper conductor FRLS LEAD FREE WIRE WITH RoHS Compliance wires in 2mm thick PVC conduit from UPS DB to computer point. Each point to have 2 nos. 16 amps . 5 pin modular type sockets, 2 No's 16 amps modular switch with all accwssories , inner / outer plates , metal box etc and to be fixed on wooden partitions/ by grouting on wall etc as per requirement at site . The switch should be fixed above the top of counter and sockets under the counter. or as directed by the engineer incharge for the rack supply in server room ,PA rack,CCTV				
a	Primary Points	Nos.	2		
b	Same as above but looped from the above 1st point to 2nd , point (Maximum 2 points in a circuit)	Nos.	2		
12.0	TELEPHONE SYSTEM				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
i)	Wiring for telephone points with 2 pair 4/5 pair .51mm dia ATC (annealed tinned Cu wire) with PVC insulated PVC sheathed telephone cable from tag block to the point including providing ferrules at both ends and termination at both ends including providing & fixing RJ 11 outlet, faceplate and mounting box complete of modular type (where 2 such points are shown, 2 such wires shall be provided) This work includes providing PVC conduits in chases from the raceway to the point.	Nos.	7		
ii)	Supplying, laying, effecting terminations, testing and commissioning of 0.51mm dia Cu. Conductor, twisted, colour coded with polythene capor barrier, telephone cables in the existing tray or in conduit including providing &fixing conduit pipe or cable tray as required from building tag block to the floor as required.				
a)	Supplying & fixing 2 nos. 20 pair krone tag block with one enclosure.	Nos.	1		
b)	P/L 20 Pair of PVC insulated PVC sheathed multi core jelly filled armored telephone	Mtrs.	60		
13	COMPUTER NETWORKING				
a	Wiring for computer networking from I/O hub to computer workstation with Cat-6 computer cable including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6 with shutter , 2 nos RJ 45 outlet, faceplate and mounting box complete of modular type, This work includes providing PVC conduits in chases from the I/O hub to the point.	Nos.	17		
b	Supplying and fixing 9 U (Rack with glass door, opening in the front power panel 1(horizontal), cable manager 1 lock & key)	Nos.	1		
c	Supply, Installation, Testing & Commissioning of 24 port Jack Panel.	Nos.	1		
d	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord, 7ft.)	Nos.	17		
e	Supplying and fixing Patch Cord-1 Meter- (DBPS Mounting Cord, 7ft.)	Nos.	19		
14.0	TV POINT				
a	Supply and fixing of 1.6 mm thick G.I. Box along with RG 6 T.V Co axial socket with Cover Plate.	Nos.	2		
b	Supply, drawing, connecting, testing and commissioning of T.V Coaxial cable RG 6 in existing conduit.	RM	50		
15.0	EARTHING				
	S/I Earthing				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
a)	Supply, Installation, Testing, Commissioning of Maintenance Free ASHLOK chemical Earthing Electrode, based mild steel tubes one inside the other (Pipe – in –Pipe) Electrode with min 80-100 micron hot dip Galvanized and filled inside with high conductive and anti corrosive chemical mixture. Earth enhanced compound powder back compound (BFC)- 20 Kg. Earthing life for 10 years. The electrode should be minimum 80 mm dia and 2000 mm length. (Earthing for main electrical panel and UPS and ATM System)				
i)	T-39	Set	2		
ii)	T-19	set	1		
b)	Supply, installation, effecting proper connection , testing and commissioning of 25mm x 3mm GI earth strip insulated by heat pressurized heavy gauge PVC sleeve, duly jointed by full lap brazing and fixed on wall with copper saddles & brass screws./ wire on surface or in recess as required.	R.mtr.	25		
c)	Supplying & laying of 1 x 8 SWG Cu earth wire in PVC conduit	R.mtr.	1		
d)	Supplying & laying of 1 x 10 Sqmm Cu earth wire in PVC conduit	R.mtr.	100		
16.0	Cable Tray and Raceways				
	Supplying and fixing of following size of Perforated pre painted ms Cable Trays with perforation not more than 17.5% in convenient section, joined with connector, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. Rates shall be included tee. band reducers etc.				
a.	150x150 x50 2mm thick Cable tray (For Submain Incoming)	R.mtr.	6		
b.	200x200 x50 2mm thick Cable tray (For Main and DG)	R.mtr.	25		
17.0	Fabricating supplying to site of installation, in floor including chase cutting of floor, leveling, refilling and making good the same 1.6 mm thick G.I raceways of height 40 mm and 2.0 mm thick openable cover, totally enclosed, The two lengths of channels and junction box shall be nut bolted together to make it dust and water proof. complete with all fixing accessories as required.				
a.	150 mm (wide) x 40 mm (height)	R.mtr.	5		
b.	100 mm (wide) x 40 mm (height)	R.mtr.	5		
	ELECTRICAL WORK TOTAL :				