Sr. No.	1			f site in char	ge:		Ashish Naga				
PO No.: PO Date	Semolina/PO/24-25/000687		Agency				TFS / Samo	lina Kitchen Pvt.	Ltd.		
PO	29-07-2024		-	0-10-2024 f Work: AJ K	itchen Fit (Out					
Measure	1			of work Exec	uted : Sep						
Sr.No	Details of Work	Unit	No.	Measurem Length	Breadth	Height	Total Qty	Claimable %	Claimabi Qty	Claimable %	Claimabl
		CHIL	140.	Langen	Dicada	neight		RA-		RA-2 (Curre	Qty ent Bill)
	CIVIL & INTERIOR WORKS									66	
1.00	Partition walts Supply and installation of fire rated calcium silicate board										1
1.01	Partition Wall with the necessory supports, fittings and fixtures (excluding final finishes). Purposed height of kitchen partition wall is 4500 mm and pot wash room is 3150mm, it may be change as per site.	SQM	1.00	11.62		3.80	44.17	100%	44.17	0%	
	conditions . Note: Framing and double side board to be installed. Final Finishies price to be quoted in wall finishes section.										
1.02	Supply and installation of fire rated calcium silicate board cladding on the extsting walls in the Klichen & pot wash area to pass the MEP services & to receive the final finishes with the necessory supports, fittings and fixtures [excluding final tinishes]. Purposed height is 3150mm, it may be change as per site conditions. Note: Framing and single side board to be installed on existing wall. Final Finishes price to be quoted in wall finishes section.	SQM	1.00	7.08		3.80	26.91	100%	26.91	0%	120
1.03	Supply and installation of 100 mm thick fire rated Gypsum board cladding on the existing walls to pass the MEP services & to receive the final finishes with the necessory supports, fittings and fixtures in the FOH & dining area walls. (excluding final finishes). Purposed height is 3700mm, it may be change as per site conditions. Note: Framing and single side board to be installed on existing wall. Final Finishes price to be quoted in wall finishes section.	SQM	1.00	12.90		3.70	47.73	100%	47.73	0%	÷
1.04	Supply and installation of 65mm thick fire rated Gypsum board cladding on the existing walls to pass the MEP services. & to receive the final finishes with the necessory supports, filtings and fixtures in the FOH & dining area walls. (excluding final finishes). Purposed height is 3700mm, it may be change as per site conditions. Note: Framing and single side board to be installed on existing wall. Final finishes price to be quoted in wall finishes section.	SQM	1.00	18.50		3.70	68.45	100%	68.45	0%	
	FLOOR FINISHES						200				_
2.01	150mm thick concrete floor screeding to raise the floor to accomodate the drainage pipes and floor gratings & to receive floor finish in the Kitchen & FOH counter areas; all in accordance with drawings & site conditions. Note: Total height of floor to be raised including floor finishes is 180mm in the kitchen & FOH counter area only	SQM	1.00			32.40	32.40	100%	32.40	0%	_
2.02	Supply & installation of water proofing with all necessary items; all in accordance with drawings and below mentioned specification. Note: Detailed specifications of the materials to be submitted to client.										
2.02a	Wet Areas: 2 Layers of 4mm thick SBS Bituminous membrane with 24-hour water ponding lest including the sealing of Cores in the slab/walls (inspected and approved from airports learn).	SQM	1.00			44.14	44.14	100%	44.14	0%	•
63502	Supply and installation of self levelling with all necessary litems; all in accordance with drawings.	SQM	1.00			83.28	83.28	100%	83.28	0%	
2.04	Supply and Installation of anti-skid 600 x 600 mm white floor tille in the kitchen & Pot wash area as per the drawings and renders. Note: Material to be approved by Clients team.	SQM	1.00	5.20	2.70		14.04	100%	14.04	0%	ě
2.05	Supply and installation of Stone Plastic Composite (SPC) Booting in the FOH dining area area; colour & design as per drawings & render. Note: malerial to be approved by Clients Team	SQM	1.00			47.25	47.25	100%	47.25	0%	2
2.06	Supply and installation of anti skid 300 x 300 mm designer floor file in the FOH area; colour & design as per drawings & render. Note: material to be approved by Clients Team	SQM	1.00			23.63	23.63	100%	23.63	0%	-
	skirting									-	
3.01	supply & installation of 100mm wooden skirting matching wall color as per the renders & drawings. Note: material to be approved by Clients Team	RM	1.00	11.40			11.40	50%	10.84	Balance Qty	0.57
	WALL FINISHES Kitchen & Pot Wash areas							T	- State		
4.01	Supply & installation of 300x300 mm White wall tile in the kitchen & Pot wash area as per drawings and renders. Note: material to be approved by Clients Team. Considered Ceiling height in kitchen is 3000mm	SQM	1.00	21.80		3.00	65.40	0%		PO Qty	61.73
4.02	Allow sum for the supply and Installation of \$\$ corner beeding on the corners of kitchen wall tiles. FOH & Dining areas	RM	1.00	14.20			14.20	0%		100%	14.20
4.03	Supply & Poiniting of matt finish paint of approved color on the walls of dining & FOH area as per the drawings & renders. Note: Material to be approved by clients Team	SQM	1.00	32.10		3.60	115.56	0%	-	PO QTY	117.40

	Details of Work	Unit	No.	Measurem Length	ents Breadth	Height	Total Qty	Claimable %	Claimabl	Claimable %	Claimabl
4.04	Supply & installation of WOODEN MOULDING STRIP finished with point of approved colour on the walls of Dining & FOH area as per drawings and rendors. Note: Material to be approved by clients from GYPSUM WORKS	RM	1.00	194,14	Беаци	neight	194.14	50%	Qty 84.36	Balance PO Qty	Qty 109.78
5.01	Supply & installation of fire rated builthead gypsum above the bood in white paint matt finish, Paint shall be included, as per the below bood sizes.										
5.01A 6.00	Considered Ceiling height in kitchen is 3000mm Hood - Hot Cooking line : 2600 t x 1000 W x 600 H mm CEIUNG WORKS	Nos	1.00				1.00	0%	-	100%	1.00
6.01	Supply & Installation of 600x600 mm metal file ceiling in the Kitchen & Pot wash area with necessary support, fixtures & accessories as per drawings & renders Note: Material to be approved by Clients Learn.	SQM	1.00	2.74	5.88		16.10	0%		РО ОТУ	13.94
6.02	Supply and Installation of Metal 3x3cm mesh ceiling with fire rated hanging flowers in the FOH & Dining areas including the final finishes with necessory support, fixtures & accessories as por clavings & renders. Note: Material to be approved by Clients Team. This ceiling will be Mesh type so that flower can be hanged.	SQM	1.00			35.80	35.80	0%		100%	35.80
6.03	Supply and Installation of fire rated Gypsum tabe celling with cove (for cove lights provision) in the the FOH & dining area with paint of approved color with necessary support, listures & accessories as per drawings & renders, refer to RCP layout. Including access panel/door as per the MEP services and Cutting & finishing for the AC grill/diffuser and lights. Note: Material to be approved by Clients Feam. Sunning meter of cove has included in total quantity (24.87m+9.32m)	SQM	1.00			65.86	67.86	50%	32.93	BALANCE QTY	34.93
6.04	Supply and painting with matt finish paint of approved color on the slab & walls of inside ceiling area of FOH & dinning, including paints on all MEP services & metal ceiling parts. Note: color to be selected/approved by Clients Team. The metioned quantity is the total covered area of the FOH and dining, quote the price accordingly for the paint on the slob and walls above the ceiling level and painting on all the MEP services	SQM	1.00			67.00	67.00	0%		100%	67.00
7.00	DOORS									V- :	
7.01	Supply and installation of heavy duty single leaf both side swing fire rated wooden door (kitchen door flushed to wall invisible type finished with same wall color) with the door frame for kitchen, including all the fittings & accessories as per the drawings and renders. Groove to be provided as per drawing and render. Dim: 2100H x 900W mm Note: Door frame should not be visible fram Customer dining area.	Nos	1.00				1.00	0%	,	100%	1.00
8.00	Miscellaneous works	16	1.00		-		1001			1000	
8.01	Allow sum for the closing of wall opening using toams. Allow sum for the Kilchen equipment equipment unloading and shifting till outlet	LS	1.00				1.00	0%		100%	1.00
	and siming in cone.										
1.00	FURNITURE CHAIRS & BANQUETTE SEATING										
1.01	Customer Dining Chair: Supply of Chair, inner side of chair in upholstery designer fabric of approved design and color, outer side of chair in upholstery of approved grey fabric, MS tube legs finished in golden powder coat. Dimensions, color & design as per the drawings and renders. Note: Samples to be submitted by contractor	PCS	24.00				24.00	50%	12.00	50%	12.00
1.02	Banquett Seating: Supply and installation of BANQUETTE SEATING MADE OF CUSHION FINISHED WITH LEATHER OF APPROVED COLOUR with 18mm THK MR MDF FINISHED LEATHER OF APPROVED COLOUR as per the drawings & renders. Size: L 11280 mm Dimensions, color & design as per the drawings and renders. Note: Samples to be submitted by confractor.	PCS	1.00				1.00	50%	0.50	50%	0.50
			-		T	T	I	1			
	TABLE	- 1				- 1					
2.00	TABLE Customer Dining Table: Supply and Installation of Table made up of 20mm thick Corian tabletop of approved color with 2 mm thick MS tube legs finished in black powder coat and gold power coat, 6mm thick Golden metal embedded in the sides of tabletop, leg base with 6mm thick steel plate in gold powder coat finish as per the drawings and renders. Note: Samples to be submitted by contractor Dimensions, color & design as per the drawings and renders.										



Sr.No	Details of Work	Unit	Na.	Measurem Length	ents Breadth	lieight	Total Qty	Claimable %	Claimabl Qty	Claimable %	Claimabl Qty
3.01	Supply & installation of TOH counler" made up of 18mm thick MR MDF structured, with 12mm thick Corion material linkh on top; and sides finished by strucco paint of RAL 4008 color and with black metal ships and cove lighting. 20mm wide black metal ships placed on the top of strucco finish with 20mm spacing 12mm thick corion shirting. 30mm dia 75mm high from centre guard rail finished with gold colors. 18mm THK MR MDF Partition wall 1100mm high finished with Oak wood veneer. 18mm THK MR MDF Partition wall 1100mm high finished with Oak wood veneer. 18mm THK MR MDF Planter box above counter sides finished with Cak wood Veneer and top with Carian of approved design. Adjustable 2 layer open shell finished with approved white laminate. 3 layer adjustable shell inner side finished with approved white laminate and outer with Oak wood veneer. Open spaces for display units. All inner sides of the counter are to be finished with white laminate. and all necessary support, fittings, and accessories as per approved drawings and renders. Space/provisions are to be provided to accommodate the equipment inside the counter as shown in the drawings and renders. Note: Actual counterfop material sample shall be submitted by the contractor and, required provision for electrical socket as per power layout.	Nos	1.00				1.00	50%	0.50	50%	0.50
3.02	Supply and installation of "FOH Back counter" made up of SS metal structure (Kitchen equipment vendor makes SS metal trame structure), Top finished with Corian material of approved design and the sides cladding & doors by 18mm thick MR-MDF finished with oak wood veneer. The contractor shall refer to the FOH back counter detail drawings & renders for complete detailings, dimensions & materials etc.	Nos	1.00				1.00	0%	·	100%	1.00
3.03	Supply and installation of "Back Counter for u/c Ice Machine" made up of 18mm THK MRMDF COUNTER WITH OPEN SHELF FOR UNDERCOUNTER ICE CUBE MACHINE, Top finished with Corian material of approved design and the sides cladding by 18mm thick MR-MDF finished with oak wood veneer. The contractor shall refer to the detail drawings & renders for complete detailings, dimensions & materials etc.	Nos	1.00				1.00	0%		100%	1.00
3.04	Supply and installation of SERVICE COUNTER MADE UP OF 18mm THK MRMDF FINISHED WITH OAK WOOD VENEER ON THE OUTER SIDE, 18mm THK MRMDF DRAWER FOR CUTTLERY, FINISHED IN WHITE MICA IN INNER SIDE, as per the renders and drawings. The contractor shall refer to the service counter detail drawings & renders for complete detailings, dimensions & moterials etc.	Nos	1.00				1.00	0%	ŧ	100%	1.00
3.05	Supply and installation of Electrical panel unit made up of 18mm THK FRMDF finished with paint of the same wall colour outer side with mouldings and in white mica on the inner side as per the drawings. The contractor shall refer to the service counter defail drawings & renders for complete detailings, dimensions & materials etc.	Nos	1.00				1.00	0%	-	100%	1.00
4.00	PLANTER BOXES & ARTIFICIAL PLANTS		-								T
4.01	Supply & installation of planter box with fire rated artificial plants with the 18mm thick MDF finished with laminate of approved color, 10mm thick wooden moulding, 6mm thick Corian cladding with 4mm grove & naturally looking artificial fire rated plant as per drawings and renders. Size: 600 x 300 x 800 mm Dimensions, color & design as per the drawings and renders. Note: Samples shall be submitted by contractor.		2.00				2.00	100%	2.00	0%	٠
4.02	Supply & installation of round shape planter box with fire rated artificial plants with the paint/powder coated finishes as per drawings and renders. Size of planter box: dia. 300mm Note: Samples shall be submitted by contractor.	Nos	3.00				3.00	0%		100%	3.00
4.03	Supply and Installation of NATURALY LOOKING ARTIFICIAL GRASS AND TREE as per the drawings and renders. To be coordinate with FOH counter drawings. Note: Samples shall be submitted by contractor. Supply and installation of planter box to be quote along with the FOH counter in Joinery section.	Nos	1.00				1.00	0%	C)	100%	1.00

SIGNAGES & DISPLAY UNIT



AU1881 LOGO AT FRONT ELEVATION. Supply & Installation of AU1881 have lift chamichems (I) hapes, better mode of obminishme distinguishmes (I) harbon with hundred LED with hundred many the himper his his high the Virging prophic base & fractions. As the character is the himper his his high the Virging graphic base & fraction. Authority and Reing of LED controller for a finalling LED brightness. As the character is the character of the character is the character of the character	Nos Nos Nos	1.00 1.00	Length	lireadth		1.00	0%	Qty	100%	1.00
CHEAT SHAPE LOGO IN THE DINING AREA WALL: Supply & Installation of ALTISAL TOWN AND AREA WALL: Supply & Installation of ALTISAL TOWN AND AREA WALL: Supply & Installation of ALTISAL TOWN AND AREA WALL: Supply & Installation of Reing of LED controller for adjusting LED brightness, and the wall of the property of the wall of the property of the wall: Supply & Installation of front lit 3D Logo. Heart Shape, letter mode of the wall of the	Nos	1.00						-	100%	1.00
UTABLE LOGO IN THE DINING AREA WALL: Supply & Installation of ALTS&L front Bill aluminism 3D logo, letter made of this minishum of chamnishing 3D letters with front face a carylic huminated LED with transformer, as per the drawings & Braden. Beacher. White in the properties of th	Nos					1.00	0%			40000
installation of front lift 3D Logo- Heart Shape, letter made of fluminium channellume 3D letters with front face carylic luminated LED with transformer, as per the drawings & senders. Supply and fixing of LED controller for adjusting LED brightnes, lote: Material to be approved by Clients Team. Supply and installation of 43" Digital Display unlit for the Menu is per the drawings and renders. Sofe: Sample to be approved by Clients team		1.00							100%	1.00
s per the drawings and renders. ote: Sample to be approved by Clients team PLUMBING	Nos					1.00	0%	2	100%	1.0
		2.00				2.00	0%		100%	2.0
ANITORY FIXTURES										
upplying, Installing, testing & commissioning of Pantry sink with ngle bowl with out drain board manufactured from stainless steel, 8G high grade indestructible chrome nickel steel with top quality oilsh, 1no.40 mm dia CP waste coupling, with 1no. 40mm dia CP bottle trap with extension pipe, CP angle cock, & divertor with ounter mounted type sink tap and necessary wall flanges, angle pock etc., complete.	Nos	4.00				4.00	0%	-	100%	4.00
upplying, installing, testing and commissioning of 15mm CP angle alve with CP flanges including necessary fixing materials ic.,complete.	Nos	17.00				17.00	0%		100%	17.00
upplying, installing, testing and commissioning of 15mm CP bib bck with CP flanges including necessary fixing materials ic.,complete.	Nos	2.00				2.00	0%		100%	2.00
upply, Föring, testing and commissioning of approved make ertical/horizontal type Electric water heater suitable for pressure ting up to 6Kg/sqcm with heating element with thermostat, 2 Nos. form dia CP angle valve, pressure relief valve, non-return valve tith CP copper connecting pipes with wall flanges etc., complete tith all inlets, outlets, valves and all other accessories etc.,										
apacity: 15 lts. 15 K.W heating element	Nos	1.00				1.00	0%	-	100%	1.00
	Nos	1.00				1.00	0%		100%	1.00
pupplying, fixing, testing and commissioning of PVC Soil, waste and entilating pipes (SWR) conforming to IS:13592. Type B with rubber in yellow seal (conforming to IS: 5382) joints inclusive of all ecessary specials like bends, tee, offsets, door bends, junctions, with, threaded type cleanout etc., laid under floor / fixed on walls in pipe shaft with proper pipe support like brackets, hangers, G.I ip bolts etc., complete. The support shall be painted with two vats of enamel paint. The rate shall include the cost of galvanized U amps, bolts & nuts, painting of supports with 2 coats of zincorromate primer with 2 coats of enamel paint of total DFT minimum to micron. As required at site as per drawings to the satisfaction the Project Manager. Internal Toilet					2.0					
5 mm dia		32.30				32.30	100%	30.00	0%	
upplying, fixing and testing uPVC pressure pipes (6Kg/sqcm) mforming to IS 4985 for waste connection from washbasin, tichen sink to floor trap, including, threading, cutting, laid under for / concealed in wall etc. The work shall include wall chase and aking good the same in cement mortar etc. complete to the titisfaction of Engineer-in-charge. The rate shall include the cost of shanized U clarmos. botts & nuts painting of pipes with 2 coats of										
nc chromate primer with 2 coats of enamel paint of total DFT inimum 100 micron	Rm Rm	10.00				10	100%	10.00	0%	-
nc chromate primer with 2 coats of enamel paint of total DFT inimum 100 micron Omm dia	Kill	6.00					U 70			
THE PARTY OF THE P	th CP copper connecting pipes with wall flanges etc., complete th all inlets, outlets, valves and all other accessories etc., implete. spacity: 15 lts. 15 K.W heating element apacity: 25 lts. 2 K.W heating element applying, fixing, testing and commissioning of PVC Soil, waste and midating pipes (SVR) conforming to IS: 5382) joints inclusive of all cessary specials like bends, tee, offsets, door bends, junctions, wis, threaded type cleanout etc., laid under floor / fixed on walls di nippe shaft with proper pipe support shall be painted with two atsortions element paint. The rate shall include the cost of galvanized U arms, botts & nuts, painting of supports with 2 coats of zinc romate primer with 2 coats of enamel paint of total DFT minimum of micron. As required at site as per drawings to the satisfaction the Project Manager. Internal Toilet is mm dia. Applying, fixing and testing uPVC pressure pipes (6Kg/sqcm) mforming to IS 4985 for waste connection from washbasin, other sink to floor trap, including, threading, cutting, laid under or / conceaded in wall etc. The work shall include wall chase and sking good the same in cement mortar etc. complete to the tisfaction of Engineer-in-charge. The rate shall include the cost of kvanized U clamps, botts & nuts, painting of pipes with 2 coats of its chromate primer with 2 coats of enamel paint of total DFT nimum 100 micron.	th CP copper connecting pipes with wall flanges etc., complete th all inlets, outlets, valves and all other accessories etc., mplete. mplete. spacity: 15 lts. 15 K.W heating element Nos Nos Nos Nos Nos Nos Nos No	th CP copper connecting pipes with wall flanges etc., complete th all inlets, outlets, valves and all other accessories etc., implete. Inpacity: 15 lts. 15 K.W heating element Inpacity: 25 lts. 2 K.W he	th CP copper connecting pipes with wall flanges etc., complete th all inlets, outlets, valves and all other accessories etc., implete. Implete. Impacity: 15 lts. 15 K.W heating element Impacity: 25 lts. 2 K.W heating element Impacity: 25 lts.	th CP copper connecting pipes with wall flanges etc., complete th all inlets, outlets, valves and all other accessories etc., mplete. spacity: 15 lts. 15 K.W heating element spacity: 25 lts. 2 K.W heating element Nos 1.00 RAINAGE replying, fixing, testing and commissioning of PVC Soil, waste and milating pipes (SWR) conforming to IS:13592 Type B with rubber g, yellow seal (conforming to IS: 5382) joints inclusive of all cessary specials like bends, tee, offsets, door bends, junctions, with, threaded type cleanout etc., laid under floor / fixed on walls d in pipe shaft with proper pipe support like brackets, hangers, G.I p botts etc., complete. The support shall be painted with two ats of enamel paint. The rate shall include the cost of galvanized U mps, botts & nuts, painting of supports with 2 coats of zinc romate primer with 2 coats of enamel paint of total DFT minimum 0 micron. As required at site as per drawings to the satisfaction the Project Manager. Internal Toilet imm dia 32.30 32.30	th CP copper connecting pipes with wall flanges etc., complete th all inlets, outlets, valves and all other accessories etc., mplete. Impacity: 15 lts. 15 K.W heating element Impacity: 25 lts. 2 K.W heating element Impacity: 25 lts. 2 K.W heating element Impacity: 25 lts. 2 K.W heating element Impolying, fixing, testing and commissioning of PVC Soil, waste and intitating pipes (SWR) conforming to IS:13592 Type B with rubber g, yellow seal (conforming to IS:5382) joints inclusive of all cessary specials like bends, tee, offsets, door bends, junctions, with, threaded type cleanout etc., laid under floor / fixed on walls d in pipe shaft with proper pipe support like brackets, hangers, G.I p botts etc., complete. The support shall be painted with two ats of enamel paint. The rate shall include the cost of galvanized U umps, botts & nuts, painting of supports with 2 coats of zinc romate primer with 2 coats of enamel paint of total DFT minimum 0 micron. As required at site as per drawings to the satisfaction of the Project Manager. Internal Toilet Imm dia 32.30 Imm dia 32.30 Imm dia Rm 10.00 Imm dia Rm 10.00	th CP copper connecting pipes with wall flanges etc., complete th all inlets, outlets, valves and all other accessories etc., mplete. spacity: 15 lts. 15 K.W heating element Nos 1.00 1.0	th CP copper connecting pipes with wall flanges etc., complete th all inlets, outlets, valves and all other accessories etc., mipolete. spacity: 15 lts. 1.5 K.W heating element spacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 9% 1.00 9	th CP copper connecting pipes with wall flanges etc., complete th all infets, outlets, valves and all other accessories etc., mplete. Implete. Nos 1.00 1.00 0%6 - apacity: 15 lts. 1.5 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 1.00 0%6 1.00 0%6 - apacity: 25 lts. 2 K.W heating element Nos 1.00 1.00 0%6 1.00 0%	th CP copper connecting pipes with wall flanges etc., complete th all inlets, outlets, valves and all other accessories etc., mplete. Mos



Sr.No	Details of Work	Unit	No.	Longth	Breadth	Height	Total Qty	Claimable %	Claimabl Qty	Claimable %	Claima
40	Drilling with core cutting in RCC bearris, slabs, flowrs etc., for leging papes and reinfecting the same in RCC 1.2.4. Building the same to the satisfaction of the Owner or his authorized representative etc., including increased instructionated where over required, complete the quoted rate shall also include to providing LPOXY based water proofing compound for anothing the joints accural the papes. Core cut shall be done using rehar detector after gotting the approval from the shuckard consultant.										49
41	RCC stabs										
		Nos	0.00					0%			
	Somm dia upto 110 mm	Nos	0.00					0%			-
	125mm dia lupto 160 mm	Nos	0.00					0%			-
	160mm upto 250mm	Nos	0.00					076			
50	Supplying and installing MS fabricated drain grating at kitchen area where ever indicated using 50mm nominal bore,MS pipes at 105mm CA2 and 8mm thick MS flats welded together and placed on MS angles of size 65mm x 65mm x 6mm, the quoted rates shall include to peninting two coats of enamel paint over a coat of primer etc. Complete		0.00								
51	150mm wide Drain Channel	Nos	0.00					0%	•		
5.2	300mm wide Drain Channel	Nos	3.00				3	100%	3.00	0%	
5.3	450mm wide Drain Channel	Nos	0.00					0%	•		
C	WATER SUPPLY Supply Installation, testing & commissioning of Chlorinated Polyvinyl										_
1.0	Chloride (CPVC) pipes, SDR 11 as per IS 15778: 2007 & fittings as per ASTM D2846 / D2846M - 14 for pipe upt 50mm dia and for pipe 65mm and above use Sch 80 Pipes as per ASTM F - 441 & Sch 80 fittings as per ASTM F 39 - 13, both of approved make, both of approved make having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings such as bends, elbows, tees, sockets, unions, plugs etc., including fixing the pipe., including necessary drilling holes, chasing walls and making the same good in as directed by the Engineer in-charge.										
	Cost shall be inclusive of all hangers, clamps, brackets etc. shall be of galvanized iron unless specified otherwise and then supply of the same shall also be included for rates under this head. Also rates including flusing and chemical cleaning of pipes. Charges for Labelling of pipe as per color schedule over painted surface of the pipes.										
	All pipes are mentioned here is ID only										
	Domestic water supply										-
1.1	15 mm nominal dia		130.00				130	100%	130.00	0%	2.
2.0	Supply Installation, testing & commissioning of full way lever operated forged brass ball valve working pressure not less than PN10 with threaded / flanged joints complete with nuts, bolts, gaskets, washers etc.										
2.1	15 mm nominal dia		1.00				1	100%	1.00	0%	
2.2	20 mm nominal dia		1.00				1	100%	1.00	0%	-
	ELECTRICAL										
1.00	LT SWITCHGEAR and Distribution Boards										
	Supply, installation, testing and commissioning of Low voltage switchgear's, free standing, Cubical type, dead front, Frame and Doors:2mm, Internal Partations:1.6mm thick, Gland Plates:3mm Thick, powder coated (Paint Shade: RAL 7032/7035), indoor type with vermin proof hinged lockable doors for each compartment, bus bar interconnections for incoming and outgoing including feeders earthing and painting and as per specifications comprising of ACB,MCCB and MCB horizontal and vertical aluminum bus bar,										
	earth bus bar as per SLD. All meters shall be digital with LED display, whereever mentioned and shall have RS 485 Modbus RTU half duplex communication interface for provision of BMS connectivity and wired accordingly. Provide required NO/NC potential free contacts wires and terminal blocks in the cable alley for BMS operation (Optional). The swtichboards are to be tested as per IS 8623 -1977 specifications. The busbars are of high conductivity Al, alloy E91E IS 5082 specification and cable entries will be from either top or bottom depending on location. LT Swtichgear shall be as per technical specification and single line										
11	diagram MDB										
1.1	MDB shall be as per Single line diagram and technical specifications (Indoor IP 42)	Nos	1.00				1.00	0%		100%	1



0%

0%

100%

100%

1.00

2.00

1.00

2.00

Nos 1.00

Nos RO

Nos RO

Nos RO

Nos 2.00

Nos 0.00

1.2 ISOLATORS

1.3 STARTERS

160A 4P MCCB in metallic enclosure -IP 42 63A 4P MCB in metallic enclosure -IP 42

40A 4P MCB in metallic enclosure -IP 42

25A 4P MCB in metallic enclosure -IP 42

40A DP MCB in metallic enclosure -IP 42

25A DP MCB in metallic enclosure -IP 42

Sr.No	Details of Work	Unit	No.	Length	Breadth	Height	Total Qty	Claimable %	Claimabi	Claimable %	Claimab
,	Supply & Installation of LTAW Similar to Motor RW of fair nielected by QE M of unit as per approved TDS DOLESTAR DELTA starter with contactive, RPCB, overload relay, ON OFF push buttons, AutoManual, ONOFF/tip indicating lamps, NONC Contacts and protential free contacts with required accessorios and provied universal sockets as shown in SLD, refere Single line diagram and technical specifications. Starter panel shall be supplied with space provisons with internal wring classific and highlights for VFD institutions. Installations and wiring hornitrations for VFD will be electrical venico scope. Supply of VFD in EVAC vendor scope.	Non	1,00	Length	iii cadtă	neight	1.00	0%	Qty .	100%	Qty 1.0
2.00	MCB Distribution boards 12 Way TPN MCB Distribution Board -PPI (KDB)	Nos	1.00				1.00	0%		100%	1.0
	MCB DB comprising the following Type of DB - 12 way TFN FP1 MCB DB (Double Door)									13070	-
_	100A 4P MCB - 1 No. as incomer 63A DP RCCB, 30mA, 2 Module - 3 Nos. as Sub incomer per phase	_									1
	20A SP MCB; 10 kA - 29 Nos. as outgoings : MCB are of 'C' Curve										
	32A SP MCB, 10 kA - 1 Nos. as outgoings : MCB are of 'C' Curve										
	The rate shall include providing Cu. bus barsinterconnection, separate earth bus, separate neutral bus for each phases, Blank Ptates and including necessary connected civil works like chipping, rough plastering etc.										
b	8 Way TPN MCB Distribution Board - PPI (LPDB)	Nos	1.00				1.00	0%		100%	1.0
	MCB DB comprising the following Type of DB - 8 way TPN PPI MCB DB (Double Door)										
	32A 4P MCB - 1 No. as incomer 25A DP RCCB, 30mA, 2 Module - 3 Nos. as Sub incomer per phase										
	10A SP MCB, 10 kA - 18 Nos. as outgoings : MCB are of 'C' Curve										
	The rate shall include providing Cu. bus barsinterconnection, separate earth bus, separate neutral bus for each phases, Blank Plates and incluuding necessary connected civil works like chipping, rough plastering etc.										
С	12 Way SPN MCB Distribution Board MCB DB comprising the following	Nos	1.00				1.00	0%	-	100%	1.
	Type of DB - 12 way SPN MCB DB (Single Door)										
	40A DP RCBO,30mA, 2 Module - 1 No. as incomer 6A SP MCB, 10 kA - 4 Nos. as outgoings : MCB are of 'C' Curve										-
	10/16A SP MCB, 10 kA - 10 Nos. as outgoings: MCB are of 'C' Curve The rate shall include providing Cu. bus barsinterconnection, separate earth bus, separate neutral bus for each phases, Blank Plates and incluuding necessary connected civil works like chipping,										
3.00	rough plastering etc. LOW VOLTAGE CABLES AND END TERMINATION Low voltage Aluminium conductor cables		l I								
	Supply and laying of 1100 V grade, XLPE insulated, extruded PVC Inner Sheathed and extruded FRLS-PVC Outer sheatehed, aluminium conductor, Armoured power cable as per specifications. The cable shall be laid in indoor trenches / cable trays as required. The cable shall be clamped at regular intervals to the suppoprts in trench or to cable trays or brick wall using MS clamps and fasteners. Rate shall exclude the cost of cable trays and termination in this item.										
	MOTE: Cables will not be procured based on BOQ only. True measurements will be taken by Contractor before ordering, based on Drawings/ Site actual requirements (Applicable to all respect Line items)										
а	3.5CX 50Sqmm Alu.arm Cable	Rmt	1.0	31.85 RO			31.85	100%	30.00	0%	-
b c	3.5CX 35Sqmm Alu.arm Cable 3.5CX 25Sqmm Alu.arm Cable	Rmt	0	RO RO				0%	-		
d e	4CX 16Sqmm Alu.arm Cable 4CX 10Sqmm Alu.arm Cable	Rmt Rmt	1.0	16.1			16.1	0% 100%	15.00	0%	
f	3.5CX 120 Sqmm Alu.arm Cable	Rmt	0								
3.2	Low Voltage Copper Conductor Cables Supply and laying of 1100 V grade, XLPE insulated, extruded PVC Inner Sheathed and extruded FRLS-PVC Outer sheatehed copper conductor, Armoured/In armoured power cable as per specifications. The cable shall be laid in indoor trenches / cable trays as required. The cable shall be clamped at regular intervals to the suppoprts in trench or to cable trays or brick wall using MS clamps and fasteners. Rate shall exclude the cost of cable trays and termination in this item.										
	Armoured Copper Cables :										
а	4Cx 16sqmm Cu Arm Cable	Rmt	1.0	15			15		15.00		
b c	4Cx 6sqmm Cu Arm Cable 4Cx 4sqmm Cu Arm Cable	Rmt	1.0	15			15		15.00 20.00		-
d e	3Cx 6sqrmr Cu Arm. Cable 3Cx 4sqrmr Cu Arm. Cable	Rmt	1.0	RO 22			22		20.00		-
3.3	Copper Flexible Cables :	, and	1.0				- "	2070			
									/	00/	
a b	3Cx6sqmm Cu Flexible Cable 4Cx6sqmm Cu Flexible Cable	Rmt Rmt	1.0	20 RO			20	100%	20.00	0%	
								/			-

	Details of Work	Unit	No.	Measurem Length	Breadth	Height	Total Qty	Claimable %	Claimabi Qty	Claimable %	Claimabl
	Supply and providing LV cable and termination for below listed cable with copper lugs, brass cable glands, tapping, crimping, etc. complete		N 10-11-1	-					-37		- 49
	Single Compression Glands : Cable Stre Below 180 Sqmm Double Compression Glands : Cable stre above 188sqmm and Single core cables 400sqmm and above										
a	3 5CX 50 Sgram Akrami Cable	Nos	2.0	2			2	100%	2.00	0%	
b	3 5CX 35Sqmm Alu arm Cable	Nos	0	RO							
c	3 5CX 25Sqmm Aki arm. Cable	Nos	0	RO							
đ	4CX 16Sqnm Alu arm Cable	Nos	0	RO			-	1000/	200	-	_
6	4CX 10Sqnm Alu arm Cable 3 5CX 120 Sqnm Alu arm Cable	Nos	2.0	RO RO			2	100%	2.00	0%	
		1103		110							
3.5	Armoured Copper Cables :										
а	4Cx 16sqmm Cu Arm Cable	Nos	2.0	2			2		2.00	0%	+
b	4Cx 6sqmm Cu Arm Cable	Nos	2.0	2			2		2.00	0%	·
c	4Cx 4sqmm Cu Arm Cable	Nos	2.0	RO RO			- 4	10070	2.00	076	<u> </u>
d e	3Cx 6sqmm Cu Arm. Cable 3Cx 4sqmm Cu Arm. Cable	Nos	2.0	2			2	100%	2.00	0%	-
3.6	Copper Flexible Cables :										
								1000/	8.00	0%	-
a b	3Cx6sqmm Cu Flexible Cable 4Cx6sqmm Cu Flexible Cable	Nos	8.0	RO RO			8	100%	8.00	0%	
400											V
4.00	SWITCHES AND SOCKETS Supply and install switches and Sockets System as required			F							T
	according to the specification, drawings and design. The installation										
	rate of all the following accessories shall include for the supply of all materials such as passivated metal switchbox junction boxes,										1
	switch plate, switches, conduit accessories, wires, tags, supports,										1
	fittings fixings and the like, to form complete elements and shall										
	include for earthing the switchboxes The installation rate shall										1
	include for termination of all cables and wires into the devices, testing,commissioning and setting to work as required by the		1								1
	specifications.										
	NOTE: SWITCHES AND SOCKETS will not be procured based										
	on BOQ only. True measurements will be taken by Contractor		1								1
	before ordering, based on Drawings/ Site actual requirements (Applicable to all respect Line items)										
	Power Receptacles with Box										
	Supply, installation, testing and Commissioning of 1 x 6/16A,										
	Universal 5 pin round/flat socket controlled with 1 x 16A Switch with Indication lamp including interconnection etc., complete. The	957	50.000.00					227			
4.1	sockets shall be with face plate, GI BOX with accessories.Rate shall	Nos	44.0				44	0%		PO Qty	40.0
	include the cost for fixing of back box with plastering and rough finish										
	Supply, installation, testing and Commissioning of 1 x 6A, universal										
	socket controlled with 1 x 6A Switch including interconnection	Non	2.0		1		3	0%		100%	3.0
4.2	etc., complete. The sockets shall be with face plate, GI BOX with accessories. Rate shall include the cost for fixing of back box with	Nos	3.0				,	070		100%	3.0
	plastering and rough finish				_						-
	Supply, installation, testing and Commissioning of 2 x 6/16A, universal socket controlled with 2 x 16A Switch including										1
4.3	interconnection etc., complete. The sockets shall be with face plate,	Nos	RO						-		1
	GI BOX with accessories.Rate shall include the cost for fixing of										1
	back box with plastering and rough finish Supply, installation, testing and Commissioning of 3 x 6A, universal										
	socket controlled with 1 x 16A Switch including interconnection		1								
4.4	etc. complete The sockets shall be with face plate, GI BOX with	Nos	RO						-		
	accessories. Rate shall include the cost for fixing of back box with plastering and rough finish										
	Supply, installation, testing and Commissioning of 2 x 6A, universal										
	socket controlled with 2 x 6A Switch including interconnection	Nos	RO								
4.5	etc., complete. The sockets shall be with face plate, GI BOX with accessories. Rate shall include the cost for fixing of back box with	1405	, KO								l
	electoring and rough finish	_			-						-
	Supply, installation, testing and Commissioning of 1 x 20A, universal socket controlled with 1 x 20A Switch floor mounted				1					1	
	pop up box including interconnection etc., complete. The sockets	Nos	RO	1							8
4.6	shall be with face plate, GI BOX with accessories. Rate shall include	1405	, KO		1				187		
	the cost for fixing of back box with plastering and rough finish (MK										
	Type Floor Box)										
	Power Receptacles without Box Supply, Installation testing and commissioning of 3 nos. of 6/16 A,								-		
4.7	multi Pin Universal socket controlled by 1 no. 16 A common switch	Nos	2.0	1	1		2	0%	-	100%	2.0
47	along with face plate, raceway/Table mounted and other necessary accessories to complete the installation.	1405	2.0				1	0,0		10070	
7.1											
4.1	Supply, Installation testing and commissioning of 6/16 A, multi Pin			1	1		1				1
4.7	Supply, Installation testing and commissioning of 6/16 A, multi Pin Universal socket controlled by 1 no. 16 A common switch along with	Nos	RO	1	1					1	
	Supply, Installation testing and commissioning of 6/16 A, multi Pin	Nos	RO								
	Supply, Installation testing and commissioning of 6/16 A, multi Pin Universal socket controlled by 1 no. 16 A common switch along with face plate, raceway/Table mounted and other necessary accessories to complete the installation. Industrial Sockets:	Nos	RO								
4.7	Supply, Installation testing and commissioning of 6/16 A, multi Pin Universal socket controlled by 1 no. 16 A common switch along with face plate, raceway/Table mounted and other necessary accessories to complete the installation. Industrial Sockets: Supply, installation, testing and Commissioning of 16A, 1 phase							0%		100%	6.00
	Supply, Installation testing and commissioning of 6/16 A, multi Pin Universal socket controlled by 1 no. 16 A common switch along with face plate, raceway/Table mounted and other necessary accessories to complete the installation. Industrial Sockets: Supply, installation, testing and Commissioning of 16A, 1 phase industrial Plug & Socket controlled with 16A DP MCB in a enclosure with all accessories. (IP65)		RO 6.0				6	0%	•	100%	6.00
4.7	Supply, Installation testing and commissioning of 6/16 A, multi Pin Universal socket controlled by 1 no. 16 A common switch along with face plate, raceway/Table mounted and other necessary accessories to complete the installation. Industrial Sockets: Supply, installation, testing and Commissioning of 16A, 1 phase industrial Plug & Socket controlled with 16A DP MCB in a enclosure						6	3505		100%	
4.7	Supply, Installation testing and commissioning of 6/16 A, multi Pin Universal socket controlled by 1 no. 16 A common switch along with face plate, raceway/Table mounted and other necessary accessories to complete the installation. Industrial Sockets: Supply, installation, testing and Commissioning of 16A, 1 phase industrial Plug & Socket controlled with 16A DP MCB in a enclosure with all accessories. (IP65) Supply, installation, testing and Commissioning of 20A, 1 phase	Nos	6.0				-	3505			6.00

Supply, installation, being and Commissioning (33A.1) phase which all accessores (1950) 11 bit bit all accessores (1950) 12 bit all accessores (1950) 12 bit all accessores (1950) 13 bit all accessores (1950) 14 bit all accessores (1950) 15 bit all accessores (1950) 16 bit all accessores (1950) 16 bit all accessores (1950) 16 bit all accessores (1950) 17 bit all accessores (1950) 18 bit all accessores (1950) 19	Length B				Qty		Qty
4 12 shaysh, restalation, resting and Commissacramy of 37A. 3 phase which all accessories (PTS) 4 13 Steph and instalation of 3 Mohake Metal threes 4 14 Steph and instalation of 3 Mohake Metal threes 4 15 Steph and instalation of 4 Mohake Metal threes 4 16 Steph and instalation of 4 Mohake Metal threes 4 16 Steph and instalation of 6 Mohake Metal threes 4 17 Steph and instalation of 6 Mohake Metal threes 4 18 Steph and instalation of 6 Mohake Metal threes 4 18 Steph and instalation of 6 Mohake Metal threes 5 10 Steph and instalation of 6 Mohake Metal threes 5 10 Steph and instalation of 6 Mohake Metal threes 5 2.0 5 CIRCUIT MAINS 5 CIRCUIT MAINS 6 CIRCUIT MAINS 7 Steph and develop of 1 Ping top suitable for 1M20A 6 Steph and develop of 1 DIOV grade, mail strand FRLS insulated copper conductor flexible obtained by FRLS Sheathing in the existing raceway/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 5 3 core 1 septim Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceway/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 5 3 core 6 septim Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceway/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 5 3 core 6 septim Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceway/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 5 5 Scholm Dia CI conduit with all accessories for general lighting. The rate shall include the cost of conduits and its sociessories. 5 1 core 6 symm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceway/conduit. Rate shall exclude the cost of conduits and its sociessories. 5 1 core 6 symm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceway/conduit in this flems. 6 1 core 4 symm Do					0.20		
4 13 Supply and installation of 3 Module Metal throws No. RO. RO. 1414 5 Supply and installation of 2 Module Metal throws No. RO. 1615 5 Supply and installation of 3 Module Metal throws No. RO. 1615 5 Supply and installation of 3 Module Metal throws No. RO. 1615 5 Supply and installation of 3 Module Metal throws No. 1615 5 Supply and installation of 3 Module Metal throws No. 1615 5 Supply and installation of 3 Module Metal throws No. 1615 5 Supply and installation of 3 Module Metal throws No. 1615 5 Supply and dawning of 1 100V grade, must strand FRLS installated copies conductor Metallation of the 1615 5 Supply and dawning of 1 100V grade, must strand FRLS installated copies conductor Metallation of the 1615 5 Supply and dawning of 1 100V grade, must strand FRLS installated copies complete through the 1615 5 Supply and dawning of 1 100V grade, must strand FRLS installated copies copies conductor flexible oshe with FRLS Sheathing in the existing racoway/conduit. Rate shall exclude the cost of Racoway/conduit in this items. 5 Supply and supply su			1	0%		100%	1.00
114 Supply and installations of 4 No.5th Media No.5s RO. 115 Supply and installations of 6 No.5th Media No.5s RO. 115 Supply and installations of 6 No.5th Media No.5s RO. 115 Supply and installations of 6 No.5th Media No.5s RO. 115 Supply and installations of 6 No.5th Media No.5s RO. 115 Supply and installations of 6 No.5s RO. 115 Supply and installations of 7 No.5th Media No.5s RO. 115 Supply and installations of 7 No.5th Media No.5s RO. 115 Supply and installations of 7 No.5th Media Robert No.5s RO. 115 Supply and installations of 1 No.5s RO.							
4.15 Supply and insulatables on 6 Mochab Media Rosen. Nos. 12.0 4.17 Supply and fissing of Standhalplates. Nos. 2.0 4.17 Supply and fissing of 3 Phin Philip top suitable for 18/20A. Nos. 2.0 4.18 Supply and fissing of 3 Phin Philip top suitable for 18/20A. Nos. 2.0 4.19 Supply and fissing of 3 Phin Philip top suitable for 18/20A. Nos. 2.0 4.10 Supply and strong of 1 100V grade, mills strand FRLS insulated convex connectors were disconsional to the stranger inconveys/conduits. Rate shall exclude the cost of Raceway/Conduit in this items. 25.0 5.1 costs in Supply and stranger in the existing raceways/conduits. Rate shall exclude the cost of Raceway/Conduit in this items. 25.0 5.2 come 5 sprim Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 25.0 5.3 core 6 sprim Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 25.0 5.4 Shall exclude the cost of Raceway/conduit in this items. 25.0 6.5 Ring and the stronger in the existing raceways/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 25.0 6.5 Ring and the cost of Raceway/conduit in this items. 25.0 6.5 Ring and the cost of Raceway/conduit in this items. 25.0 6.6 Point wiring a fight, using 1 100 vet grade. 3Pct 1 Segmm mall strate Sprim and IRVE Sprim FRLS MeSC wires drawn in 25.0 6.7 Collet sprim and IRVE Sprim FRLS MeSC wires drawn in 25.0 6.8 Collet with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 25.0 6. Point wiring of fight, using 1 100 vet grade. 3Pct 1 Segmm malls rate shall exclude the cost of Raceway/conduit in this items. 3.0 6. Point wiring of fight, using 1 100 vet grade. 3Pct 1 Segmm malls rated FRLS insulated copper conductor flexible cable. drawin in costing raceways/conduit in this items. 3.0 6. Point wir							
4.16 Supply and fixing of She Philip Top suitable for 16/20A Nos 2.0 CIRCUIT MAIN FOR LICHTING/POWER: CIRCUIT MAIN FOR LICHTING/POWER: Supply and drawing of 1100V grade, must strand FRLS insulated covere conductor through a coressories. 3 core 1.5 signm Double insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/Conduit in this terms. 3 core 2.5 signm Double insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/Conduit in this terms. 3 core 3.5 signm Double insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this terms. 3 core 4 signm Double insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 3 core 5 signm Double insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduit. Rate shall exclude the cost of conduits and its accessories for general lighting. The rate shall include the cost of conduits and its accessories. 2R x 4.5 signm and RRZ 5.5 signm FRLS, MSCC wires drawn in 25mm bild Gic conduit with all accessories for general purpose power sockets. The rate shall include the cost of conduits and its accessories. 1 core 4 signm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceways/conduit in this items. 1 core 6 signm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceways/conduit in this items. 1 core 6 signm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits in this items. 1 core 6 signm Double Insulated Copper copper c					•		
4.17 Supply and knamp of 3 Pine Philip top suitable for 18/20A Nos 2.0 CIRCUIT MAINS CIRCUIT MAIN FOR LICHTING/POWER: Supply and drawing of 1100V grade, multi strand FRLS insulated copere consoluctor workshot were drawn into existing raceways/carbible trays with necessary fixing accessories. 3 cove 1.5 sprinn Double Insulated Copper copper conductor flexible shall exclude the cost of Reveryey/Condul in this ferms. 3 cove 2.5 sprinn Double Insulated Copper copper conductor flexible shall exclude the cost of Reveryey/Condul in this ferms. 3 cove 4 sprinn Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/condular. Rate shall exclude the cost of Raceway/condul in this ferms. 3 core 6 sprinn Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/condular. Rate shall exclude the cost of Raceway/condul in this items. 5 core 6 sprinn Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/condular. Rate shall exclude the cost of Raceway/condul in this items. 5 core 6 sprinn Double Insulated Copper copper conductor flexible cable with FRLS Sheathing and accessories for general jumpose power societs. The rate shall include the cost of condults and its accessories for general purpose power societs. The rate shall include the cost of condults and its accessories for general purpose power societs. The rate shall include the cost of condults and its accessories for general purpose power societs. The rate shall include the cost of condults and its accessories for general purpose power societs. The rate shall include the cost of condults and its accessories for general purpose power societs. The rate shall include the cost of condults and its accessories for general purpose power societs. The rate shall include providing multiple power in the existing raceways/condults. Rate shall exclude the cost of Raceway/condult in this items. 5 common the provided provided providing multipl			2	0%		100%	2.0
CIRCUIT MAIN FOR LIGHTING/POWER: Signly and drawing of 1100V grade, mails strand FRLS insulated coper conductor was consolidated to the cost of Reconstactive with recessary fixing accessories. 3 cover 1.5 septim Double Insulated Copper copper conductor flexible shall exclude the cost of Recovery/Condul in this items. 3 cover 2.5 septim Double Insulated Copper copper conductor flexible shall exclude the cost of Recovery/Condul in this items. 3 cover 4.5 septim Double Insulated Copper copper conductor flexible shall exclude the cost of Recovery/Condul in this items. 3 cover 4.5 septim Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing recovery/condult. Rate shall exclude the cost of Recovery/condult in this items. 3 cover 4.5 septim Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing recovery/condult. Rate shall exclude the cost of Recovery/condult in this items. 4 cover a septim Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing recovery/condult. Rate shall include the cost of Condults and its accessories for general purpose power societies. The rate shall include the cost of condults and its accessories for general purpose power societies. The rate shall include the cost of condults and its accessories. 5 cover 5 cover and the cost of Condults and its accessories. 5 cover 5 cove			2	0%		100%	2.0
Supply and drawing of 11000 grote, multi strand FRLS insulated copper conductor when the consisting raceways/cable trays with necessary fishing accessories. 3 core 1.5 signim Double Insulated Copper copper conductor flexible shall excisite the cost of Raceway/Conduit in this items. 3 core 2.5 signim Double Insulated Copper copper conductor flexible shall excisite the cost of Raceway/Conduit in this items. 3 core 4.5 signim Double Insulated Copper copper conductor flexible shall excisite the cost of Raceway/Conduit in this items. 3 core 4 signim Double Insulated Copper copper conductor flexible shall excisite the cost of Raceway/Conduit in this items. 3 core 4 signim Double Insulated Copper copper conductor flexible shall excisite the cost of Raceway/Conduit in this items. 5 core 5 signim Double Insulated Copper copper conductor flexible shall excisite the cost of Raceway/Conduit in this items. 5 core 5 significant shall be shal							
Supply and drawing of 11000 grote, multi strand FRLS insulated copper conductor when the consisting riceways/cable trays with necessary fraing accessories. 3 core 1.5 sqmm Double Insulated Copper copper conductor flexible shall exclude the cost of Raceway/Condult in this items. 3 core 2.5 sqmm Double Insulated Copper copper conductor flexible code with FRLS Sheathing in the existing riceways/condults. Rate shall exclude the cost of Raceways/condult in this items. 3 core 4 sqmm Double Insulated Copper copper conductor flexible shall exclude the cost of Raceway/condult in this items. 3 core 4 sqmm Double Insulated Copper copper conductor flexible shall exclude the cost of Raceway/condult in this items. 3 core 6 sqmm Double Insulated Copper copper conductor flexible shall exclude the cost of Raceway/condult in this items. 5.4 cable with FRLS Sheathing in the existing raceway/condult. Rate shall exclude the cost of Raceway/condult in this items. 5.5 2 Smm Dia Cl condult with all accessories to general lighting. The rate shall include the cost of Raceway/condult in this items. 5.5 2 Smm Dia Cl condult with all accessories for general lighting. The rate shall include the cost of condults and its accessories. 5.6 2 Smm Dia Cl condult with all accessories for general lighting. The rate shall include the cost of condults and its accessories. 5.7 2 Collew with FRLS Sheathing in the existing raceway/condults. Rate shall exclude the cost of Raceway/condult in this items. 5.8 2 Collew with FRLS Sheathing in the existing raceway/condults. Rate shall exclude the cost of Raceway/condult in this items. 5.8 2 Collew with FRLS Sheathing in the existing raceway/condults. Rate shall exclude the cost of Raceway/condult in this items. 6. YOINT WIRING 9 Cont wiring of light, using 1100 volt grade, 3Rx1.5Sqmm multi-strand FRLS. Insulated Copper conductor flexible cable, drawn in existing raceway/s/condult. The rate shall include providing mounting boxes with tapped holes for lights switches, moulded front plates with bras							
sale exclude the cost of Raceway/Conduits in this items. 3 core 2.5 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceway/sconduits. Rate shall exclude the cost of Raceway/conduit in this items. 3 core 4 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceway/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 3 core 4 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceway/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 5.4 cable with FRLS Sheathing in the existing raceway/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 5.5 2R x 2.5 sg.mm + 1R 1.5 sg.mm FRLS, MSCC wires drawn in 2 may be shall include the cost of conduits and its accessories. 5.6 2R x sgmm and IRVZ-Sigmm FRLS MSCC wires drawn in 2 may be shall include the cost of conduits and its accessories. 1 core 4 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 1 core 4 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 1 core 6 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 5.0 0 may be shall exclude the cost of Raceway shall be specification. Rate shall exclude the cost of Raceway shall be specification. Rate shall exclude the cost of Raceway shall be specification. Rate shall exclude the cost of MCB Roeways in this items. 6 Point witting of light, using 1100 wolt grade, 3Rx1 5Sgmm multi-strand FRLS insulated copper conductor flexible conduit shall be included at the drop of light brace. For MCB Controlled Lights -08 to 1 still grint will be measured as							
cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 3 core 4 sgmm Double insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 3 core 6 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 2R x 2.5 sq.mm. + 1R 1.5 sq.mm FRLS. MSCC wires drawn in 25mm Dia Gl conduit with all accessories for general lighting. The rate shall include the cost of conduits and its accessories. 2R x 4.5 sq.mm. and FRLS. Sg.mm FRLS. MSCC wires drawn in 25mm dia Gl conduit with all accessories for general purpose power soctets. The rate shall include the cost of conduits and its accessories. 2R x 4.5 sq.mm and FRLS. Sg.mm FRLS. MSCC wires drawn in 25mm dia Gl conduit with all accessories for general purpose power soctets. The rate shall include the cost of conduits and its accessories. 1 core 4 sqmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 5.8 alternative free free free free free free free fr			35	100%	35.00	0%	
cable with FRLS Sheathing in the existing raceways/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 3 core 6 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathling in the existing raceways/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 2R x 2.5 sq.mm. + 1R 1.5 sq.mm FRLS. MSCC wires drawn in 25mm Dia Gl conduit with all accessories for general lighting. The rate shall include the cost of conduits and its soccessories. 2R x 4.5 sq.mm. and 1RX2.5 sq.mm FRLS MSCC wires drawn in 25mm dia Gl conduit with all accessories for general purpose power sockets. The rate shall include the cost of conduits and its accessories. 1 core 4 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathling in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 1 core 6 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathling in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 1 core 6 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathling in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 6 POINT WIRING Point wing of light, using 1100 volt grade, 3Rx1.5Sgmm multi strand FRLS insulated copper conductor flexible cable, drawn in existing raceways/conduit. The rate shall include providing mounting boxes with tapped holes for lights switches, moulded front plates with brass screws earthing of all points using third core of the cable, For MCB Controlled Lights -DB to 1st light will be measured as circuit wiring. The point wing shall be as per specification Rate shall exclude the cost of MCB, Roeways in this tem. CONDUIT - GI) PRIMARY LIGHT POINT (Switch Control) Primary light point means wiring from first switch control to the first light outlet. The switch and all necessary accessories would be part of primary point. Same to be controlled by the existing wi			75	100%	75.00	0%	
cable with FRLS Sheathing in the existing raceways/conduit. Rate shall exclude the cost of Raceway/conduit in this items. 2R x 2.5 sq.mm. + 1R 1.5 sq mm FRLS, MSCC wires drawn in 25mm Dia Gl conduit with all accessories for general lighting. The rate shall include the cost of conduits and its accessories. 2R x 4 sqmm and 1RX2. Ssqmm FRLS MSCC wires drawn in 25mm dia Gl conduit with all accessories for general purpose power sockets. The rate shall include the cost of conduits and its accessories. 1 core 4 sqmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 1 core 6 sqmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 1 core 6 sqmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 6 POINT WIRING Point wiring of light, using 1100 volt grade, 3Rx1.5Sqmm multi strand FRLS insulated copper conductor flexible cable, drawn in existing raceways/Conduit. The rate shall include providing mounting boxes with tapped holes for lights switches, moulded front plates with brass screws earthing of all points using third core of the cable. For MCB Controlled Lights -DB to 1st light will be measured as circuit wiring. The point wiring shall be as per specification Rate shall exclude the cost of MCB.Roeways in this item, (CONDUIT - G)! PRIMARY LIGHT POINT (Switch Control) Primary light point means wiring from first switch control to the first light outlet. The switch and all necessary accessories would be part of primary point. Most of the cable conduit shall be included at the drop of light fidure. 6.1 SECONDARY LIGHT POINT (Switch Control) Secondary light point means extention of light outlet from existing primary point. Same to be controlled by the ex			150	100%	150.00	0%	
25mm Dia Gl conduit with all accessories for general lighting. The rate shall include the cost of conduits and its accessories. 27x 4 sagmm and TRX2.5Sgmm FRLS MSCC wires drawn in 25mm dia Gl conduit with all accessories for general purpose power sockets. The rate shall include the cost of conduits and its accessories. 1 core 4 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 1 core 6 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 1 core 6 sgmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 6 POINT WIRING Point wiring of light, using 1100 volt grade, 3Rx1.5Sgmm multi strand FRLS insulated copper conductor flexible cable, drawn in existing raceways/Conduit. The rate shall include providing mounting boxes with tapped holes for lights switches, moulded front plates with brass screws earthing of all points using third ore of the cable. For MCB Controlled Lights-DB to 1st light will be measured as circuit wiring. The point wiring shall be as per specification Rate shall exclude the cost of MCB,Roceways in this item. (CONDUIT: GI) Primary light point means wiring from first switch control to the first light outlet. The switch and all necessary accessories would be part of primary point. Not to include the sub-circuit if it is drawn from adjacent switch box. 6.2 SECONDARY LIGHT POINT (Switch Control) Secondary light point means extention of light outlet from existing primary point. Same to be controlled by the existing MCB primary point Celling flexible conduit shall be included at the drop of light future. The Writing from DB to First Light point will be measured under circuit mains. 6.4 SECONDARY LIGHT POINT (MCB Control) Seco				0%	-		
25.mm dia Gl conduit with all accessories for general purpose power sockets. The rate shall include the cost of conduits and its accessories. 1 core 4 sqmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 1 core 6 sqmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 6. POINT WIRING Point wiring of fight, using 1100 volt grade, 3Rx1.5Sqmm multi strand FRLS insulated copper conductor flexible cable, drawn in existing raceways/Conduit. The rate shall include providing mounting boxes with tapped holes for lights withches, moulded front plates with brass screws earthing of all points using third core of the cable. For MCB Controlled Lights-DB to 1st light will be measured as circuit wiring. The point wiring shall be as per specification Rate shall exclude the cost of MCB,Rceways in this item.(CONDUIT - GI) 6.1 PRIMARY LIGHT POINT (Switch Control) Primary light point means wiring from first switch control to the first light outlet. The switch and all necessary accessories would be part of primary point. Not to include the sub-circuit if it is drawn from adjacent switch box. Ceiling flexible conduit shall be included at the drop of light figure. 6.2 SECONDARY LIGHT POINT (Switch Control) Secondary light point means extention of flight outlet from existing primary point. Ceiling flexible conduit shall be included at the drop of light figure. 6.3 SECONDARY LIGHT POINT (MCB Control) Secondary light point means extention of flight outlet from existing primary point. Ceiling flexible conduit shall be included at the drop of light figure. 6.4 SECONDARY LIGHT POINT (MCB Control) Secondary light point means extention of flight outlet from existing primary point. Ceiling flexible conduit shall be included at the drop of light figure. 6.4 SECONDARY LIGHT POINT (MCB Con				0%	(#S		
1 core 4 sqmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 1 core 6 sqmm Double Insulated Copper copper conductor flexible cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. 6 POINT WIRING Point wiring of light, using 1100 volt grade, 3Rx1.5Sqmm multi strand FRLS insulated copper conductor flexible cable, drawn in existing raceways/conduit. The rate shall include providing mounting boxes with tapped holes for lights switches, moulded front plates with brass screws earthing of all points using third core of the cable, For MCB Controlled Lights -DB to 1st light will be measured as circuit wiring. The point wiring shall be as per specification Rate shall exclude the cost of MCB,Rceways in this item.(CONDUIT - GI) 6.1 PRIMARY LIGHT POINT (Switch Control) Primary light point means wiring from first switch control to the first light outlet. The switch and all necessary accessories would be part of primary point. Not to include the incoming lighting circuit from MCB-DB to switch. But to include the sub-circuit if it is drawn from adjacent switch box. Ceiling flexible conduit shall be included at the drop of light fixture. 6.2 SECONDARY LIGHT POINT (Switch Control) Secondary light point means extention of light outlet from existing primary point. Same to be controlled by the existing switch of primary point. Ceiling flexible conduit shall be included at the drop of light fixture. 6.3 SECONDARY LIGHT POINT (MCB Control) Secondary light point means extention of light outlet from existing primary point. Same to be controlled by the existing MCB of primary point. Ceiling flexible conduit shall be included at the drop of light fixture. 6.4 Secondary light point means extention of light outlet from existing primary point. Ceiling flexible conduit shall be included at the drop of light fixture. 6.5 SECONDARY LIGHT POI				0%	-		
cable with FRLS Sheathing in the existing raceways/conduits. Rate shall exclude the cost of Raceway/conduit in this items. Point wring of light, using 1100 volt grade, 3Rx1.5Sqmm multi strand FRLS insulated copper conductor flexible cable, drawn in existing raceways/Conduit. The rate shall include providing mounting boxes with tapped holes for lights switches, moulded front plates with brass screws earthing of all points using third core of the cable, For MCB Controlled Lights -DB to 1st light will be measured as circuit wiring. The point wring shall be as per specification Rate shall exclude the cost of MCB,Roeways in this item.(CONDUIT - GI) Primary light point means writing from first switch control to the first light outlet. The switch and all necessary accessories would be part of primary point.' Not to include the incoming lighting circuit from MCB-DB to switch.' But to include the incoming lighting circuit from MCB-DB to switch.' But to include the sub-circuit if it is drawn from adjacent switch box. Celling flexible conduit shall be included at the drop of light fixture. SECONDARY LIGHT POINT (Switch Control) Secondary light point means extention of light outlet from existing primary point. Ceiling flexible conduit shall be included at the drop of light fixture. SECONDARY LIGHT POINT (MCB Control) Secondary light point means extention of light outlet from existing primary point. Ceiling flexible conduit shall be included at the drop of light fixture. SECONDARY LIGHT POINT (MCB Control) Secondary light point means extention of light outlet from existing primary point. Ceiling flexible conduit shall be included at the drop of light fixture. The Wiring from DB to First Light point will be measured under circuit mains. Ceiling fan point controlled by 6/10 A flush type SP switch. The rate shall include MS fan hook boxes. The rate shall also include cost of 300 W electronic fan speed controller in this item only.Rate shall exclude the cost of ceiling fan in this item. Ceiling fan point controlled			1750	100%	1,750.00	0%	
Point wiring of light, using 1100 volt grade, 3Rx1.5Sqmm multi strand FRIX insulated copper conductor flexible cable, drawn in existing raceways/Conduit. The rate shall include providing mounting boxes with tapped holes for lights switches, moulded front plates with brass screws earthing of all points using third core of the cable, For MCB Controlled Lights - DB to 1st light will be measured as circuit wiring. The point wiring shall be as per specification. Rate shall exclude the cost of MCB,Roeways in this item.(CONDUIT - GI) 6.1 PRIMARY LIGHT POINT (Switch Control) Primary light point means wiring from first switch control to the first light outlet. The switch and all necessary accessories would be part of primary point. Not to include the sub-circuit if it is drawn from adjacent switch box. Ceiling flexible conduit shall be included at the drop of light fixture. 6.2 SECONDARY LIGHT POINT (Switch Control) Secondary light point means extention of light outlet from existing primary point. Ceiling flexible conduit shall be included at the drop of light fixture. 6.3 SECONDARY LIGHT POINT (MCB Control) Secondary light point means extention of light outlet from existing primary point. Same to be controlled by the existing MCB of primary point. Ceiling flexible conduit shall be included at the drop of light fixture. The Wiring from DB to First Light point will be measured under circuit mains. Ceiling far point controlled by 6/10 A flush type SP switch. The rate shall include MS fan hook boxes. The rate shall also include cost of 300 W electronic fan speed controller in this item only.Rate shall exclude the cost of ceiling flexible conduit shall be included at the drop of light fixture. The Wiring from DB to First Light point will be measured under circuit mains. Ceiling fan point controlled by 6/10 A flush type SP switch. The rate shall include MS fan hook boxes. The rate shall also include cost of 300 W electronic fan speed controller in this item only.Rate shall exclude the cost of ceiling flexible condui			50	100%	50.00	0%	
Point wiring of light, using 1100 volt grade, 3Rx1.5Sqmm multi strand FRIX insulated copper conductor flexible cable, drawn in existing raceways/Conduit. The rate shall include providing mounting boxes with tapped holes for lights switches, moulded front plates with brass screws earthing of all points using third core of the cable, For MCB Controlled Lights - DB to 1st light will be measured as circuit wiring. The point wiring shall be as per specification. Rate shall exclude the cost of MCB,Roeways in this item.(CONDUIT - GI) 6.1 PRIMARY LIGHT POINT (Switch Control) Primary light point means wiring from first switch control to the first light outlet. The switch and all necessary accessories would be part of primary point. Not to include the sub-circuit if it is drawn from adjacent switch box. Ceiling flexible conduit shall be included at the drop of light fixture. 6.2 SECONDARY LIGHT POINT (Switch Control) Secondary light point means extention of light outlet from existing primary point. Ceiling flexible conduit shall be included at the drop of light fixture. 6.3 SECONDARY LIGHT POINT (MCB Control) Secondary light point means extention of light outlet from existing primary point. Same to be controlled by the existing MCB of primary point. Ceiling flexible conduit shall be included at the drop of light fixture. The Wiring from DB to First Light point will be measured under circuit mains. Ceiling far point controlled by 6/10 A flush type SP switch. The rate shall include MS fan hook boxes. The rate shall also include cost of 300 W electronic fan speed controller in this item only.Rate shall exclude the cost of ceiling flexible conduit shall be included at the drop of light fixture. The Wiring from DB to First Light point will be measured under circuit mains. Ceiling fan point controlled by 6/10 A flush type SP switch. The rate shall include MS fan hook boxes. The rate shall also include cost of 300 W electronic fan speed controller in this item only.Rate shall exclude the cost of ceiling flexible condui		 				<u></u>	1
PRIMARY LIGHT POINT (Switch Control) Primary light point means wiring from first switch control to the first light outlet. The switch and all necessary accessories would be part of primary point.' Not to include the incoming lighting circuit from MCB-DB to switch.' But to include the sub-circuit if it is drawn from adjacent switch box. Ceiling flexible conduit shall be included at the drop of light fodure.							
Secondary light point means extention of light outlet from existing primary point. Same to be controlled by the existing switch of primary point. Ceiling flexible conduit shall be included at the drop of light fixture. 6.3 SECONDARY LIGHT POINT (MCB Control) Secondary light point means extention of light outlet from existing primary point. Same to be controlled by the existing MCB of primary point. Ceiling flexible conduit shall be included at the drop of light fixture. The Wring from DB to First Light point will be measured under circuit mains. Ceiling fan point controlled by 6/10 A flush type SP switch. The rate shall include MS fan hook boxes. The rate shall also include cost of 300 W electronic fan speed controller in this item only.Rate shall exclude the cost of ceiling fan in this item. 7.00 CABLE TRAY/RACEWAYS 7.1 Ladder Type Supply and providing Ladder cable trays factory fabricated out of 2mm thick pre galvanized sheet steel, channel size 75 x 15 mm and rung size 30 x 6 mm, spaced at 250 mm interval, supporting angle frame at every 1.8 m, bottom angle fasteners, anchor grip botts, synthetic enamelled painting, etc. The tray shall be suspended from ceiling using anchor bott and angle iron supports or mounted from wall. The rate shall include all accessories like bends, etbows, tees, coupler plates, etc., which will be measured as linear			10	100%	10.00	0%	
SECONDARY LIGHT POINT (MCB Control) Secondary light point means extention of light outlet from existing primary point. Same to be controlled by the existing MCB of primary point. Ceiling flexible conduit shall be included at the drop of light fixture. The Wiring from DB to First Light point will be measured under circuit mains. Ceiling fan point controlled by 6/10 A flush type SP switch. The rate shall include MS fan hook boxes. The rate shall also include cost of 300 W electronic fan speed controller in this item only.Rate shall exclude the cost of ceiling fan in this item. 7.00 CABLE TRAY/RACEWAYS 1. Ladder Type Supply and providing Ladder cable trays factory fabricated out of 2mm thick pre galvanized sheet steel, channel size 75 x 15 mm and rung size 30 x 6 mm, spaced at 250 mm interval, supporting angle frame at every 1.8 m, bottom angle fasteners, anchor grip botts, synthetic enamelled painting, etc. The tray shall be suspended from celling using anchor bott and angle iron supports or mounted from wall. The rate shall include all accessories like bends, etbows, tees, coupler plates, etc., which will be measured as linear			2	5 100%	25.00	0%	
Ceiting fan point controlled by 6/10 A flush type SP switch. The rate shall include MS fan hook boxes. The rate shall also include cost of 300 W electronic fan speed controller in this item only.Rate shall exclude the cost of ceiling fan in this item. 7.00 CABLE TRAY/RACEWAYS 7.1 Ladder Type Supply and providing Ladder cable trays factory fabricated out of 2mm thick pre galvanized sheet steel, channel size 75 x 15 mm and rung size 30 x 6 mm, spaced at 250 mm interval, supporting angle frame at every 1.8 m, bottom angle fasteners, anchor grip botts, synthetic enamelled painting, etc. The tray shall be suspended from celling using anchor bott and angle iron supports or mounted from wall. The rate shall include all accessories like bends, etbows, tees, coupler plates, etc., which will be measured as linear				0%	-		
7.1 Ladder Type Supply and providing Ladder cable trays factory fabricated out of 2mm thick pre galvanized sheet steet, channel size 75 x 15 mm and rung size 30 x 6 mm, spaced at 250 mm interval, supporting angle frame at every 1.8 m, bottom angle fasteners, anchor grip botts, synthetic enamelled painting, etc. The tray shall be suspended from celling using anchor bott and angle iron supports or mounted from wall. The rate shall include all accessories like bends, etbows, tees, coupler plates, etc., which will be measured as linear				0%			
7.1 Ladder Type Supply and providing Ladder cable trays factory fabricated out of 2mm thick pre galvanized sheet steet, channel size 75 x 15 mm and rung size 30 x 6 mm, spaced at 250 mm interval, supporting angle frame at every 1.8 m, bottom angle fasteners, anchor grip botts, synthetic enamelled painting, etc. The tray shall be suspended from celling using anchor bott and angle iron supports or mounted from wall. The rate shall include all accessories like bends, etbows, tees, coupler plates, etc., which will be measured as linear		1	1				
Supply and providing Ladder cable trays factory fabricated out of 2mm thick pre galvanized sheet steel, channel size 75 x 15 mm and nung size 30 x 6 mm, spaced at 250 mm interval, supporting angle frame at every 1.8 m, bottom angle fasteners, anchor grip botts, synthetic enametled painting, etc. The tray shall be suspended from ceiling using anchor bott and angle iron supports or mounted from wall. The rate shall include all accessories like bends, etbows, tees, coupler plates, etc., which will be measured as linear						1	
measurement and fixing accessories. The rate shall include the cost of Supports							
		 -		1	N		
a 150 mm wide 50 mm height Rmtrs 0	Page 8 of 18			100%			

No nem wide 75 nem height So nem wide 75 nem height Nertorated Type Supply and providing. MS Pertorated cable trays factory fabricated at of 2mm thick pre-palvemized sheet sheet, channel size 50 mm supporting angle frame at every 1 ft m, bottom angle fasteners, incher grip botts, synthetic exameted pending, etc. The tray shall be suspended from ceiling using archive bott and angle iron support in recented from the country of the support of the suppo	Rontrs Rontrs Rontrs Rontrs Rontrs	0 0 0 0 0 0 0 0 0 0	Length	Breadth			100%	Qty		Qty
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Supply and provising. MS Perforated cable trays factory fabricated and of 2mm thick pre-galvenized sheet steel, channel size 50 mm apporting angle traine at every 1 ft in bottom angle fasteriers, inchery grip botts, synthetic ensureded partiting, etc. The tray shall be suspended from osting using ancher bott and angle iron supports inscended from osting using ancher bott and angle iron supports inscended from well. The rate shall include all accessories like ends, elbows, tees, coupler plates, etc., which will be measured as near measurement and fixing accessories. The rate shall include be cost of Supports. O mm wide 50 mm height. Of mm wide 50 mm height. Of mm wide 50 mm height. Of mm wide 50 mm height. OWDER COATED FRAME FOR MCB DB's upply and installation of DB Frame with wire ways shall be made ut of 1 firm thick. CRCA sheet steel and powder coating colour half match the colour of MCB DB's with hinged type door, 100mm; tomm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation coessories. ARTHING upply and Installation of earthing station as per IS3043 complet th 600x600x3.15mm Copper plate earthing with salt, charcoal, as of 25x3mm Copper strip up to test link,19mm dia Gli watering.	Rontrs Rontrs Rontrs Rontrs Rontrs	0 0 25.0 0								
Supply and provising. MS Perforated cable trays factory fabricated and of 2mm thick pre-galvenized sheet steel, channel size 50 mm apporting angle traine at every 1 ft in bottom angle fasteriers, inchery grip botts, synthetic ensureded partiting, etc. The tray shall be suspended from osting using ancher bott and angle iron supports inscended from osting using ancher bott and angle iron supports inscended from well. The rate shall include all accessories like ends, elbows, tees, coupler plates, etc., which will be measured as near measurement and fixing accessories. The rate shall include be cost of Supports. O mm wide 50 mm height. Of mm wide 50 mm height. Of mm wide 50 mm height. Of mm wide 50 mm height. OWDER COATED FRAME FOR MCB DB's upply and installation of DB Frame with wire ways shall be made ut of 1 firm thick. CRCA sheet steel and powder coating colour half match the colour of MCB DB's with hinged type door, 100mm; tomm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation coessories. ARTHING upply and Installation of earthing station as per IS3043 complet th 600x600x3.15mm Copper plate earthing with salt, charcoal, as of 25x3mm Copper strip up to test link,19mm dia Gli watering.	Rontrs Rontrs Rontrs Rontrs Rontrs	0 0 25.0 0								
and of 2mm thick pive galvernized sheet sheet, channel size 50 mm apporting angle harms at every 1 ft m, bottom angle fasterners, mother grip botts, synthetic envanedled painting, etc. The tray shall be suspended from ceiling using anchor bott and angle iron supports inscended from well. The rate shall include all accessories like ends, elbows, tees, coupler plates, etc., which will be measured as mear measurement and fixing accessories. The rate shall include be cost of Supports. O mm wide 50 mm height 50 mm height 600 mm wide 50 mm height 50 mm height 600 mm wide 50 mm	Rontrs Rontrs Rontrs Rontrs Rontrs	0 0 25.0 0								
supporting angle frame at every 1 fl m. bottom angle fasteners, incher grip botts, synthetic enameted painting, etc. The tray shall be assigned from ceiling using archive bott and angle iron supports incounted from well. The rate shall include all accessories like ends, elbows, tees, coupler plates, etc., which will be measured as hour measurement and fixing accessories. The rate shall include the cost of Supports. Other wide 50 mm height. OWDER COATED FRAME FOR MCB DB's upply and installation of DB Frame with wire ways shall be made at of 1 ferm thick CRCA sheet steel and powder coating colour hall match the colour of MCB DB's with hinged type door, 100mm 10mm 1 ferm thick, wire ways / Raceway with 2mm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation coessories. ARTHING ARTHING ARTHING the colour of poper plate earthing with salt, charcoal, as of 25x3mm Copper strip up to test link,19mm dia Gli waterin.	Rontrs Rontrs Rontrs Rontrs Rontrs	0 0 25.0 0								
inchor grip botts, synthetic evannetted painting, etc. The tray shall be suspended from colling using anchor both and angle ion support or mastered from wall. The rate shall include all accessories like ends, elbows, tees, coupler plates, etc., which will be measured as near measurement and fixing accessories. The rate shall include he cost of Supports. O mm wide 50 mm height. O mm wide 50 mm height. O mm wide 50 mm height. OO mm wide 50 mm height. OOWDER COATED FRAME FOR MCB DB's supply and Installation of DB Frame with wire ways shall be made ut of 1 6mm thick CRCA sheet steel and powder coating colour hall match the colour of MCB DB's with hinged type door, 100mm somm 1 6mm thick, wire ways / Raceway with 2mm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation coessories. ARTHING upply and Installation of earthing station as per IS3043 complete the 600x600x3.15mm Copper plate earthing with salt, charcoal, iss. of 25x3mm Copper strip up to test link,19mm dia Gl waterin	Rontrs Rontrs Rontrs Rontrs Rontrs	0 0 25.0 0								
te suspended from ceiling using anchor bolt and angle iron support ir mounted from well. The rate shall include all accessories like ends, elbows, hees, coupler plates, etc., which will be measured as near measurement and fixing accessories. The rate shall include he cost of Supports. O mm wide 50 mm height O0 mm wi	Rontrs Rontrs Rontrs Rontrs Rontrs	0 0 25.0 0								
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S0 mm wide 50 mm height 00 mm wide 50 mm height cowoder COATED FRAME FOR MCB DB's upply and installation of DB Frame with wire ways shall be made ut of 1 firm thick CRCA sheet steet and powder coating colour hall match the colour of MCB DB's with hinged type door. 100mm: 00mm 1 firm thick, wire ways / Raceway with 2mm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation coessones. ARTHING upply and Installation of earthing station as per IS3043 complet th 600x600x3.15mm Copper plate earthing with salt, charcoal, os. of 25x3mm Copper strip up to test link;19mm dia Gl waterin	Rmtrs Rmtrs Rmtrs Rmtrs	0 25.0 0					100%			
00 mm wide 50 mm height 00 mm wide 50 mm height 00 mm wide 50 mm height OWDER COATED FRAME FOR MCB DB's upply and installation of DB Frame with wire ways shall be made ut of 1 firm thick. CRCA sheet steel and powder coating colour hall match the colour of MCB DB's with hinged type door, 100mm; 00mm; 1 firm thick, wire ways / Raceway with 2mm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation ccessories. ARTHING upply and Installation of earthing station as per IS3043 complet th 600x600x3.15mm Copper plate earthing with salt, charcoal, us. of 25x3mm Copper strip up to test link,19mm dia Gl waterin	Rmtrs Rmtrs Rmtrs	25.0					100%			
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OWDER COATED FRAME FOR MCB DB's supply and Installation of DB Frame with wire ways shall be made ut of 1 6mm thick CRCA sheet steel and powder coating colour hall match the colour of MCB DB's with hinged type door. 100mm : 00mm 1 6mm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation coessonies. ARTHING upply and Installation of earthing station as per IS3043 complete the 600x600x3.15mm Copper plate earthing with salt, charcoal, as of 25x3mm Copper strip up to test link,19mm dia Gl waterin	Rımtrs			-		25	100%	25.00	0%	-
apply and Installation of DB Frame with wire ways shall be made ut of 1 farm thick CRCA sheet steet and powder coating colour hall match the colour of MCB DB's with hinged type door. 100mm: 00mm: 1 farm thick, wire ways / Raceway with 2mm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation coessones. ARTHING upply and Installation of earthing station as per IS3043 complete the 600x600x3.15mm Copper plate earthing with salt, charcoal, os. of 25x3mm Copper strip up to test link,19mm dia Gi waterin	Rmtrs	15.0	-	-						-
apply and Installation of DB Frame with wire ways shall be made ut of 1 farm thick CRCA sheet steet and powder coating colour hall match the colour of MCB DB's with hinged type door. 100mm: 00mm: 1 farm thick, wire ways / Raceway with 2mm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation coessones. ARTHING upply and Installation of earthing station as per IS3043 complete the 600x600x3.15mm Copper plate earthing with salt, charcoal, os. of 25x3mm Copper strip up to test link,19mm dia Gi waterin	Rmtrs	15.0	1	-						+
hall match the colour of MCB DB's with hinged type door. 100mm: 00mm 1 farm thick, wire ways / Raceway with 2mm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation coessories. ARTHING upply and Installation of earthing station as per IS3043 complet tith 600x60x3.15mm Copper plate earthing with salt, charcoal, os. of 25x3mm Copper strip up to test link,19mm dia Gl waterin	Rmtrs	15.0								1
00mm 1 6mm thick, wire ways / Raceway with 2mm thick crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation coessones. ARTHING upply and Installation of earthing station as per IS3043 complete the 600x600x3.15mm Copper plate earthing with salt, charcoal, os. of 25x3mm Copper strip up to test link, 19mm dia Gl waterin	Rmtrs	15.0								1
crewed / press to fit cover with hinged type door for making rame for MCB DB's. Complete required including installation occessories. ARTHING upply and Installation of earthing station as per IS3043 complet th 600x600x3.15mm Copper plate earthing with salt, charcoal, os. of 25x3mm Copper strip up to test link,19mm dia Gl waterin		15.0				100				1
rame for MCB DB's. Complete required including installation coessories. ARTHING upply and Installation of earthing station as per IS3043 completed the 600x600x3.15mm Copper plate earthing with salt, charcoal, as of 25x3mm Copper strip up to test link,19mm dia Gl watering.						15	100%	15.00	0%	
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th 600x600x3.15mm Copper plate earthing with salt, charcoal, os. of 25x3mm Copper strip up to test link,19mm dia Gl waterin	31 I									_
os. of 25x3mm Copper strip up to test link,19mm dia GI waterin									1	1
	. 1	1								
pe with funnel, test link earthing chamber 450x450mm CI cove	Nos	0		1			1			1
c with required civil works complete. The CI Frame and cover	4 l								1	1
nall be of heavy duty type. upply and Installation of earthing station as per IS 3043 complet		-		-						-
uppry and installation of earthing station as per 13 3043 complet ith GI pipe earthing with salt, charcoal, 2 nos. of 50x6mm GI stri									1	1
to test link .40mm dia GI watering pipe with funnel,test link		0								1
arthing chamber of 450x450mm CI cover etc with required civ	4									1
orks complete. The CI Frame and cover shall be of heavy dut pe	1 1									
upply and running of below listed sizes of electrolytic copper / G	1									1
arth conductor tapes / wires and laid along with cable or clampe										
brick wall, etc., as required.	-	40.0		-			1000	40.00	00/	-
SWG GI wire for Earthing 5x3mm GI Flat	Rmtrs	40.0 25.0		-		40 25	100% 100%	40.00 25.00	0%	-
5x6mm GI Flat	Rmtrs	0		_		23	100%	- 23.00	070	+-
Cx6sqmm Cu Flexible Cable Earthing (Green)	Rmtrs	75.0		1		75	100%	75.00	0%	
Cx4sqmm Cu Flexible Cable Earthing (Green)	Rmtrs	50.0				50	100%	50.00	0%	1 2
upply and installation of Earth pads made out of copper/GI busbar	5									
stalled on 1100 V insulators including hardware and other minor vil works.associated works.								. ,		
usbar of 0.5 Mtr length made out of 25 x 3 mm Cu. strip with drill										-
oles of M8 at 25mm interval mounted on insulators and acrylic	Nos	0						0 8		
over to be provided.				-						-
usbar of 0.5 Mtr length made out of 25 x 6 mm Cu. strip with drill oles of M8 at 25mm interval mounted on insulators and acrylic	Nos	0					1			
over to be provided.	3325									
usbar of 0.5 Mtr length made out of 45 x 6 mm GI strip with drill	Nos	1.0				1	100%	1.00	0%	
oles of M8 at 25mm interval mounted on insulators.				1						-
VC pipes (Electrical/IT/AV/CCTV/ACS)	1			-	an activities					
upply and laying of 2 mm thick rigid FRLS PVC conduits in										
oncealed conduit system using conduit accessories like junction								1		
oxes, collars, bends, elbows, binding wires, etc.	-			+	-	<u> </u>				+
mm dia conduit	Rmtrs	0		1			100%			+
2 mm dia conduit 5 mm dia conduit	Rmtrs	0	-	777			100%			-
0 mm dia conduit	Rmtrs	0					100%			
								77.00		
pipes (Electrical/IT/AV/CCTV/ACS)										7 7
upply and laying of 2 mm thick rigid MS conduits in				1						
oncealed/Open conduit system using conduit accessories like										
nction boxes, collars, bends, elbows, binding wires, etc.	Rmtrs	10.0				10	90%	9.00	10%	1.0
	Rmtrs	125.0						96.59		28.9
nction boxes, collars, bends, elbows, binding wires, etc.	Rmtrs	80.0				80	74%	58.95	26%	21.0
nction boxes, collars, bends, elbows, binding wires, etc. 2 mm dia conduit				1		L				1
nction boxes, collars, bends, elbows, binding wires, etc. 2 mm dia conduit 5 mm dia conduit 0 mm dia conduit				т —		т —				1
nction boxes, collars, bends, elbows, binding wires, etc. 2 mm dia conduit 5 mm dia conduit 0 mm dia conduit IRUCTURAL WORKS		0	1			1	100%			
nction boxes, collars, bends, elbows, binding wires, etc. 2 mm dia conduit 5 mm dia conduit 0 mm dia conduit IRUCTURAL WORKS upply, cutting, welding, grouting, fastening, cleaning and painting		٠	l		-		100,00			1
nction boxes, collars, bends, elbows, binding wires, etc. 2 mm dia conduit 5 mm dia conduit 0 mm dia conduit TRUCTURAL WORKS upply, cutting, welding, grouting, fastening, cleaning and painting I MS Channels, angles, plate, supporting brackets/structures, eb omplete with necessary hardwares.	Kgs	0					100%	ų.		
nction boxes, collars, bends, elbows, binding wires, etc. Imm dia conduit mm dia conduit mm dia conduit rectangle conduit	Kgs	U		-			10070	-	-	+
nction boxes, collars, bends, elbows, binding wires, etc. 2 mm dia conduit 5 mm dia conduit 0 mm dia conduit TRUCTURAL WORKS upply, cutting, welding, grouting, fastening, cleaning and painting I MS Channels, angles, plate, supporting brackets/structures, eb omplete with necessary hardwares.	Kgs			1						
nction boxes, collars, bends, elbows, binding wires, etc. 2 mm dia conduit 5 mm dia conduit 0 mm dia conduit IRUCTURAL WORKS upply, cutting, welding, grouting, fastening, cleaning and painting IMS Channels, angles, plate, supporting brackets/structures, etcomplete with necessary hardwares. upply of 6mm thick MS chequred plates duly painted. Plates to but size as per site requirement.	Kgs								T	1.0
nction boxes, collars, bends, elbows, binding wires, etc. 2 mm dia conduit 5 mm dia conduit 0 mm dia conduit TRUCTURAL WORKS upply, cutting, welding, grouting, fastening, cleaning and painting in MS Channels, angles, plate, supporting brackets/structures, ebomplete with necessary hardwares. upply of 6mm thick MS chequred plates duly painted. Plates to but size as per site requirement.	Kgs Kgs			1	1			1	10004	1.0
nction boxes, collars, bends, elbows, binding wires, etc. 2 mm dia conduit 5 mm dia conduit 6 mm dia conduit 1 mm dia conduit 2 mm dia conduit 2 mm dia conduit 3 mm dia conduit 4 mm dia conduit 5 mm dia conduit 5 mm dia conduit 6 mm dia conduit 6 mm dia conduit 7 mm dia conduit 8 mm dia conduit 8 mm dia conduit 8 mm dia conduit 8 mm dia conduit 9 mm di	Kgs Kgs	1.0				1		1	100%	-
nction boxes, collars, bends, elbows, binding wires, etc. Imm dia conduit mm dia conduit fructural works upply, cutting, welding, grouting, fastening, cleaning and painting MS Channels, angles, plate, supporting brackets/structures, etcomplete with necessary hardwares. upply of 6mm thick MS chequred plates duly painted. Plates to but size as per site requirement. USCELLANEOUS ITEMS upply and fixing of danger boards of appropriate voltage grade ize and style as required by Electrical Inspectorate. upply of Rubber checkered mat of size 2000 x 1000 x 10mm thick	Kgs Kgs					1			100%	1
nction boxes, collars, bends, elbows, binding wires, etc. 2 mm dia conduit 5 mm dia conduit 5 mm dia conduit 1 ms Channels, welding, grouting, fastening, cleaning and painting of the standard painting to the standard painting t	Kgs Kgs Nos Nos	1.0				0				-
nction boxes, collars, bends, elbows, binding wires, etc. Imm dia conduit mm dia conduit fructural works upply, cutting, welding, grouting, fastening, cleaning and painting MS Channels, angles, plate, supporting brackets/structures, etcomplete with necessary hardwares. upply of 6mm thick MS chequred plates duly painted. Plates to but size as per site requirement. USCELLANEOUS ITEMS upply and fixing of danger boards of appropriate voltage grade ize and style as required by Electrical Inspectorate. upply of Rubber checkered mat of size 2000 x 1000 x 10mm thick	Kgs Kgs Nos Nos					0			100%	1.0
up	ply and laying of 2 mm thick rigid MS conduits in cealed/Open conduit system using conduit accessories like tion boxes, collars, bends, elbows, binding wires, etc. nm dia conduit nm dia conduit	ply and laying of 2 mm thick rigid MS conduits in cealed/Open conduit system using conduit accessories like tion boxes, collars, bends, elbows, binding wires, etc. In dia conduit Rmtrs In dia conduit Rmtrs Rmtrs Rmtrs Rmtrs CUTURAL WORKS ply, cutting, welding, grouting, fastening, cleaning and painting the Collaboration of the Collabo	ply and laying of 2 mm thick rigid MS conduits in cealed/Open conduit system using conduit accessories like tion boxes, collars, bends, elbows, binding wires, etc. In dia conduit Rmtrs 10.0 Rmtrs 125.0 mm dia conduit Rmtrs 125.0 mm dia conduit Rmtrs 80.0 UCTURAL WORKS ply, cutting, welding, grouting, fastening, cleaning and painting RS Channels, angles, plate, supporting brackets/structures, etc uplete with necessary hardwares. ply of 6mm thick MS chequred plates duly painted. Plates to be kgs 0	ply and laying of 2 mm thick rigid MS conduits in cealed/Open conduit system using conduit accessories like tion boxes, collars, bends, elbows, binding wires, etc. In dia conduit Rmtrs 10.0 In dia conduit Rmtrs 125.0 In dia conduit Rmtrs 80.0 UCTURAL WORKS ply, cutting, welding, grouting, fastening, cleaning and painting the Conduit Richard Structures, etc. In dia conduit Rmtrs 80.0 UCTURAL WORKS ply, cutting, welding, grouting, fastening, cleaning and painting the with necessary hardwares. In the conduit Rmtrs 10.0 In thick MS chequired plates duly painted. Plates to be the conduit the conduit Rmtrs 10.0 In thick MS chequired plates duly painted. Plates to be the conduit the condui	ply and laying of 2 mm thick rigid MS conduits in cealed/Open conduit system using conduit accessories like tion boxes, collars, bends, elbows, binding wires, etc. In dia conduit Rmtrs 10.0 Rmtrs 125.0 mm dia conduit Rmtrs 125.0 mm dia conduit Rmtrs 80.0 Rmtrs 80	ply and laying of 2 mm thick rigid MS conduits in cealed/Open conduit system using conduit accessories like tion boxes, collars, bends, elbows, binding wires, etc. In dia conduit Rmtrs 10.0 Rmtrs 125.0 In dia conduit Rmtrs 125.0 In dia	ply and laying of 2 mm thick rigid MS conduits in cealed/Open conduit system using conduit accessories like tion boxes, collars, bends, elbows, binding wires, etc. Inm dia conduit Rmtrs 10.0 10 125 125.0 125 125 10 125 125 10 125 125 10 12	ply and laying of 2 mm thick rigid MS conduits in cealed/Open conduit system using conduit accessories like tion boxes, collars, bends, elbows, binding wires, etc. Inm dia conduit Rmtrs 10.0 10 90% in mid a conduit Rmtrs 125.0 125 77% in mid aconduit Rmtrs 125.0 125 77% in mid aconduit Rmtrs 80.0 80 74% in mid aconduit Rmtrs 80.0 10 10 10 10 10 10 10 10 10 10 10 10 10	ply and laying of 2 mm thick rigid MS conduits in cealed/Open conduit system using conduit accessories like tion boxes, collars, bends, elbows, binding wires, etc. In dia conduit Rmtrs 10.0 Rmtrs 125.0 Rmtrs 125.0 Rmtrs 80.0 Rmt	ply and laying of 2 mm thick rigid MS conduits in cealed/Open conduit system using conduit accessories like tion boxes, collars, bends, elbows, binding wires, etc. In dia conduit Rmtrs 10.0 10 90% 9.00 10% 10% 105 105 105 105 105 105 105 105 105 105

Sr No	Details of Work	Unit	No.	Measurem Length	ilreadth	Height	Total Qty	Claimable %	Claimabi Qty	Claimable %	almabl Qty
113	Supply of Western harmed glass brented shock treatment chart as you it uples freed to well.	Nes	10							100%	1.00
116	STEC OF House hold First Extinguisher ADC Francher R Kg with flow mount acceptantes	None	10				1			100%	1.00
		-									
	Temporary Works Fix Instrumery Lightley in the exessination area with necessary light finance capting A Power I Vehilladion central panel for construction was a The cost shall include necessary industrial sections, capting distribution boards, capting Light finance and all aniety exception as required.	t B	RO				RO				
ь	Professional charges towards filing application, preparation of disselegs in necessary formats to approval, follow up and analoging approval of disselegs, scheme by Local electricity authority (Sociés at Expendicable, obtaining clearance from plocies by authority (Electrical Inspectionale).	LS	RO				RO				
¢	Proparation and Submission of as built drawings of total work executed (2 Sets hard and soft copy)	Nos	1.0				1			100%	1.00
12.00	UGHT FIXTURES				-						7.00
12.1	Supply Installation of LED 2x2 Grid Light (Type-1) Supply Installation of LED Surface Mounted Type Light Fixtures	Nos	2.0			_	2			100%	2.00
12.2	(Type 2) Supply Installation of LED Round pendenal-1 Type Light Fodures	Nos	2.0		-		- 1				6.00
12.3	(Type 3) Supply Installation of LED Round pendenat-2 Type Light Fodures	Nos	6.0				- 6	0%		100%	200000
12.3	(Type-4) Supply Installation of LED Recessed COB Type Light Fodures	Nos	11.0				11			100%	11.00
12.2	(Type-5)	Nos	5.0				5	0%		100%	5.00
12.2	Supply Installation of LED Decorative Wall Light Fixtures (Type-6)	Nos	5.0				5	0%	•	100%	33.92
12.2	Supply Installation of LED Strip Light (Type-7)	Mtrs	33.9				33.92	0%	•	100%	33.92
13.00 a	UPS Supply, Installation, Testing & Cornissioning of: 5 KVA 1 Phase input/1 phase output UPS with 90 mins. Backup Battery Type: SMF with racks & enclouser (Output Power Factor Unity)		1.0				1	0%	-	100%	1.00
	IT										
1.1	4-pair, Cat 6 UTP FRLS Cable	Mtrs	182.0 8.0	-	-		182.0		87.50 4.00	Balance PO Qty 50%	87.50 4.00
1.2	Cat 6 UTP Information Outlet for Workstation end Cat 6 RJ45-RJ45 UTP Patch Cords, color matched, Yellow –	Nos	8.0				8	5000000	4.00	50%	4.00
1.4	Workstation end, 7 ft Single Face Plates	Nos	0				-				
1.5	Dual Face Plates	Nos	8.0					50%	4.00	50%	4.0
1.6	Supply and fixing of Metal box suitable information outlet, flush/surface type in position .The rate shall exclude the cost of faceplate and Information Outlet.	Nos	8.0					50%	4.00	50%	4.0
1,7	Supply, installation, testing and Commissioning of RJ11 Telephone Point. The Telephone Socket shall be with face plate, GI BOX with accessories.	Nos	0				(o			
1.8	Cat 6 24 Port Angled Discrete Jack panel - fully loaded (1U). The rate shall include the cost of Patch Panel, Information Outlets with all the required supporting accessories.	Nos	1.0					50%	0.50	50%	0.5
9	06 U wall mount rack with required mounting accessories, Rate shall include required accessories, tools etc., complete as required.	No	1.0					50%	0.50	50%	0.5
	CCTV										
1	Supply, installation, testing and Commissioning of UL approved, IP based Dome Indoor type 5MP,HD Dome camera	Nos	5.0					5 50%	2.50	50%	2.5
2	Supply, installation, testing and Commissioning of UL approved, Outdoor type 2MP Camera	Nos	RO								
3	Supply, installation, testing and Commissioning of 8 Channel NVR Ultra 4 K resolution and recording software with Storage capacity of 30Days .with all required accessories	No	1					1 50%	0.50	50%	0.5
4	CAT 6 PoE Cable, as per the survey done, Rate shall include required accessories, tools etc., complete as required.	Mtr	116.0				11	6 50%	50.00	Balance PO Qty	50.0
5	Cat 6 Sngle Information Outlets including faceplates and backbox accessories.	Nos	5.0					5 50%	2.50	50%	2.5
6	Cat 6 12 Port Angled Discrete Jack panel - fully loaded (1U). The rate shall include the cost of Patch Panel, Information Outlets with all the required supporting accessories. (CCTV)	Nos	RO								
7	Cat 6, PoE 7ft Gigabit Snagless Molded Patch Cable (RJ-45 Male) with factory crimping, these patch cords will suffice for connecting between Data Outlet & CCTV	No	0								
8	Cat 6, PoE 4ft Gigabit Snagless Molded Patch Cable (RJ-45 Male) with factory crimping, these patch cords will suffice for connecting between Data Outlet & CCTV (100%)	No	5.0					5 50%	2.50	50%	2.5
9	05 U wall mount rack with required mounting accessories, Rate shall include required accessories, tools etc., complete as required.	No	RO						7		



St No	Details of Work	Unit	No.	Measurem Length	ilreadth	Height	Total Qty	Claimable %	Claimabi Qty	Claimable %	Claimabl
	Supply and laying of 2 mm thick right FRLS PVC conduits in concealed conduit system using conduit accessories like surction boxes, collars, bends, ellows, binding wires, etc.	,	, ive						qiy		Qty
			0.0								
	© mm dia conduit	Mira	RO	-	-						
6	25 mm dia conduit 19 mm dia conduit	Mira	RO								-
	TE THAT ONE COMPANY										-
11	GI pipes										
	Supply and laying of 2 mm thick rigid GI conduits in concealed Open conduit system using conduit accessories like junction boxes, collars, bends, elbows, binding wires, etc.										
	32 mm dia conduit	Mtrs	0								1
b	25 mm dia conduit	Mtrs	36.0				36	0%		100%	36.00
c	19 mm dia conduit	Mtrs	40.0				40	0%	•	100%	40.0
12	5 meter length, Powder coated MS 25 mm dia Conduit supports for CCTV cameras with required supporting /mounting accessories complete.	No	RO								
13	Supervision, Programming, Testing & Commissioning, Documentation, Training.	LS	1.0				1	0%	391	100%	1.0
1.0	HVAC CHILLED WATER TYPE DOUBLE SKIN AIR HANDLING UNITS		44		-			elem.	7-1		
	CEILING SUSPENDED TYPE							ř			
	Supply, Installation, Testing & Commissioning of Double skir type Celling suspended units complete with double skin (43±1mm) insulated with CFC free polyurethane foam (PUF) panels or 40 +/- 2 Kg/cum density. The outer and inner panel thicknes shall be 0.8 mm and 0.63 mm GI respectively. Outer skin shall be precoated/Powder Coated G.I. sheet and internal skin shall be precoated/Powder Coated G.I. sheet and internal skin shall be plain G.I. sheet suitable for chilled water application. The unit shall be provided with DIDW Fan, Motor, minimum 4 row cooling coil and drain pan with 15mm thick nitrile rubber insulation, inte filter section with with 50mm thick panel type pre-filter of MERV 8 as part of CSU, drive set & guard, spring isolator to avoir transmission of vibration, etc. The noise of the unit shall no exceed more than 55-60 dBA at 1m distance from the unit and a maximum operating speed. The height of the unit shall not exceed from. Additional FRP drain tray shall be considered for this units. Cooling Coil should be certified by AHRI 410	s f f s s e t t s s t - d t t t t d d									
	The unit shall be provided with belt driven backward curved Mult fans for achive the unit hight as not Exceed 650mm, IE3 Motor drive package, vibration isolating rubber bush to fans and moto to avoid transmission of vibration. All CSU motor pulleys shall be of adjustable type only. Cost shall be inclusive of non-cloth type canvas connection made of self extinguishing, moisture resistan flexible fabric to be provided between CSU outlet flange and th supply duct / plenum.Spring isolators shall be used in thinstallation of the Ceiling suspended Units to ensure there is no transmission of vibration from the equipment to the building structure.	r e e t e e									
a	Supply. Installation, Testing & Commissioning of Double Skin CSI Capacity-5 TR capacity, 1750 Dcfm with 0.325 sqm coolin cooling coil face area, 30 mmwg fan external static, 4/6 ror cooling coil, 0.75/1.1 Kw fan motor, filter section with Pre Filte (EU-3)-MERY-8 supplied by the builder -Serving area: AJ Kitchen Fine Dine	Set	1					0%	-	100%	1.0
ь	Supply, Installation, Testing & commissioning of Limit switch wiring ,lighting & motor interlock to be provided with 3 con 2.5sqmm cable in 19mm dia Gl conduit		24.5				24.5	0%	-	PO Qty	20.0
2.0	CHILLED WATER PIPING WITH INSULATION										
	Supply, Installation, Testing & commissioning of MS 'C' Claspipes insulated with Closed cell elastomeric insulation of specified thickness & Insulation to be covered with Aluminium cladding 26G, 0.5mm thick as per technical specification. All Bolts / Nuts used in the chilled water piping should be of Gi & no MS. The cost shall be inclusive of pipe suppoorts with MC Channels. The piping flange connection bolts, washers and nut should be hot dipped galvanised. The pipes should be supported with MS Channels, angle frame with neoprene rubber / PUL saddles. Fitting accessories for installation of pressure gauges thermometers, BMS sensors, drain ports to be provided by the HVAC lowside contractor. Flourscent Plastic Sticker/ paint shal be applied to indicate Water flow directions. Only End flanges to be used for capping of pipes. "Table E* of BS code for flange thickness to be adhered. The Piping material & network should be selected to operate at PN 16 Rating	f n ll t t S S S d E									



Sr No	Details of Work	Unit	No.	Measurem Length	Breadth	Height	Total Qty	Clatmable %	Claimabi Qty	Claimable %	Claimabi Qty
	Pipe dia below 150 nm shall be C class confirming to IS 1739 (part 1) 2004 Pipe size between 200 mm to 350 mm dia shall be 6. 15 mm A pipe dia above 350 mm shall be 8.0 mm confirming to IS 150 (a 15)					•			- 17		40
	Opening and closing for all the chilled place entries in civil /										
	vender and inclusive of cost. Routing diagram can be checked in drawing prior for quoting										
	42 mm dia	Rmt	21.4				21	0%		PO Qty	20,00
	Constant and All Discovery Constant and All Disc										
1.0	Supply, Installation, Testing & commissioning of Wafer type Butterfly valve which shall be of Slim seal wafer type with long stem of FN 16 rating, companion flanges shall also be of PN20 rating. Butterfly valves installed for the chilled water pipelines shall be insulated with nitrile rubber insulation and the insulation thickness shall be similar to that of the pipe dimensions, (valve sizes above 200mm shall be wheel operated type instead of handles). All bolts, washers and nuts shall be hot dipped galvanized only. The MOC of body shall be cast iron & disk shall be epoxy coated ductile iron.										
	40 mm dia	Nos	R.only					0%		100%	5.00
b	32 mm dia	Nos	5.0				5	0%		10070	5.00
4.0	PRESSURE INDEPENDENT TYPE DYNAMIC BALANCING CUM FLOW CONTROL VALVE.										
	Valve selection to be submitted in the technical submittal for approval before procurement.										
	Supply, Installation, Testing & commissioning of Pressure Independent dynamic balancing cum equal percentage type modulating flow control valve - PN16 rating fitted with high torque actuator with Non spring return type to ensure the valve closes automatically in the event of power disconnect to actuator. Actuator enclosure shall be rated for iP 54 protection. Step down transformer if required shall be part of valve supply, matching flanges, hot dipped galvanized bolts and nuts. Valve body to be insulated with closed cell elastomeric insulation. Supply , installtion, testing & commissioning of thermostat along with control/ power cabling to be part of scope. The MOC of body shall be cast fron & membrane shall be EPDM, SS spring.										
	Actuator should be provided with position feed back switch and also actuator should have BMS interfacing card and shall be suitable for accepting signals from temperature sensors supplied by BMS vendor. Actuator should also have facility to set the required flow rate as per site requirements through dip switch adjustments. Valve body to be rated for PN 16. The valve design flow rate should be factory calibrated with +/- 5% flow accuracy. THe scope shall include the cost supply of thermostat/ return air temperature and required control cabling										
	Valve shall have necessary measuring ports, drain port, flanges etc., The balancing to be done through microprocessor based hand held terminal / POT and the same results shall be furnished in the water balancing report as part of commissioning report and handing over manual.										
a b	40 mm dia 32 mm dia	Nos	R.only				1	0%	-	100%	1.0
	32 Hull Cla										
5.0	2 WAY FLOW CONTROL VALVE. Valve selection to be submitted in the technical submittal for										
	approval before procurement. Supply, Installation, Testing & commissioning of 2 Way- modulating flow control valve - PN16 rating fitted with high torque actuator with Non spring return type to ensure the valve closes automatically in the event of power disconnect to actuator. Actuator enclosure shall be rated for IP 54 protection. Step down transformer if required shall be part of valve supply, matching flanges, hot dipped galvanized bolts and nurs. Valve body to be insulated with closed cell elastomeric insulation. Supply , Installtion, testing & commissioning of thermostat along with control/ power cabling to be part of scope.The MOC of body shall be cast fron & membrane shall be EPDM, SS spring.										
	Actuator should be provided with position feed back switch and also actuator should have BMS interfacing card and shall be suitable for accepting signals from temperature sensors supplied by BMS vendor. Actuator should also have facility to set the required flow rate as per site requirements through dip switch adjustments. Valve body to be rated for PN 16. The valve design flow rate should be factory calibrated with +/- 5% flow accuracy. The scope shall include the cost supply of thermostat/ return air temperature and required control cabling								/		

Sr No	Details of Work	Unit	No.	Measurem Length	Breadth	Height	Total Qty	Claimable %	Claimabl Qty	Claimable %	Claimabl Qty
	Valve shall have necessary measuring parts, shall part, flanger etc., The balancing to be done through microgress excer based hand held terminal / 701 and the same results shall be furnished in the water balancing report as part of commissioning report and handing once manual.					-					.,,
	4) mm dia	Nos	R only					0%			
,	17 mm dia	Nos	R only			-		0%			
6.0	TEMPERATURE SENSORS										-
	Samph: Installation, Testing 8 commissioning of Duct type/ space type temperature sensor for measuring the Return are temperature at the Chilled water type CSU Units (Range 45-150 deg. 1) A Temperature sensor shall be provided in the return air path of CSU to control the 2 way modulating valve. The scope shall include the cost of Control Cabling with conduit between temperature sensor and actuator of 2 Way modulating flow control valve.	Nos	1.0				j	0%	ě.	100%	1.00
7.0	Y'-STRAINER WITH INSULATION										
	Supply, Installation, Testing & commissioning of Y-strainer -PN 16 rating body construction shall be with Mild steel and strainer shall be of SS screen with permanent magnet and drain port. The MOC of body shall be cast iron & SS-304 filter with 3 mm perforation with flanged connection, gaskets, permanent magnet. Note, the insulation quantity will be measured in running meters and the valve in numbers.										
a	40 mm dia	Nos	R.only					0%			1.00
b	32 mm dia	Nos	1.0				1	0%	•	100%	1.00
8.0	BALANCING VALVE WITH INSULATION SITC of BALANCING VALVE (Manual Type) - PN16 Rating. Balancing valves installed for the chilled water pipelines shall be insulated with 25mm thick nitrile rubber insulation The valve should be with factory calibrated with +/- 5% flow accuracy. Provided with necessary measuring port, drain port, flanges hot dipped galvanized bolts, washers and nuts etc., The balancing to be done by portable hand held device and same result should be furnished in the handing over manual. The MOC of body shall be cast iron & the seat shall be EPDM, brass / SS cone.										
a	40 mm dia		R.only					0% 0%	-		
ь	32 mm dia	Nos	R.only					070			
9.0	TEMPERATURE GUAGES									T T	1
a	Supply, Installation, Testing & commissioning of Thermometer which shall be of Dial type (100mm) Range 0° to 50°C, with stainless steel body - IP 55 protection, with necessary theromowells.	Nos	2.0				2	0%	750	100%	2.00
10.0	PRESSURE GAUGE (GLYCERINE FILLED)					-/Bankers					
a	Supply, Installation, Testing & commissioning of Pressure Gauge which shall be of Bourdon tube Dial type (100mm) Range 0 to 10 kg/cm ² , with stainless steel body - IP55 protection with necessary pipe fitting and needle valve etc.,	Nos	2.0				2	0%	3.0	100%	2.00
11.0	INSULATED RIGID PVC PIPING FOR CONDENSATE DRAIN										
	Supply, Installation, Testing and Commissioning of Rigid PVC piping with pressure rating of 6 Kg /CM2 duly insulated with 9 mm thick factory laminated aluminium foil faced closed cell elastomeric nitrile rubber insulation with class 'O' fire retardant properties in tubing form & all fittings, elbows, tees reducers, supports and clamps up to 50 mm dia. including drilling, wall chipping etc. and conceal the wall opening. Pipes shall be of following sizes:										
а	65mm. Dia.	Rmt	31.5	70			31.5			PO Qty	30.00
	50mm. Dia. 40mm. Dia.	Rmt	14.5				15			PO Qty 100%	20.00
	32mm. Dia.	Rmt	0					0%			
d	25mm. Dia.	Rmt	0					0%	-		
12.0	AUTOMATIC AIR VENTS										
	Supply, installation, Testing & commissioning of Automatic air vents to be provided at all high location of piping. The air vent to be provided with necessary ball valve.	Nos	0.0					0%	-		
13.0	DRAIN VALVES										-
	Supply, installation, Testing & commissioning of Bali/Drain valves with handles and extended stem, threaded joints shall be of PN16 class and insulated with nitrile rubber. The MOC of body shall be forged brass, SS ball, SS 410 stem. The end connections shall be threaded.							004		100%	2.00
a	25 mm dia	Nos	2.0				2	0%	/	10070	2.50
								. /			

Sr.No	Details of Work	Unit	No.	Length	lireadth	Height	Total Qty	Claimable %	Claimabl Qty	Claimable %	Claimabl Qty
	FACTORY FABRICATED DUCTING - TOF /TDC FLANGES -				1						
	RECTANGULAR DUCTWORKS SUBDRY, Installation, Testing & Commissioning of factory		_	-	-	-					
	fabricated GSS Ducting with TDF /TDC flange with GI bolt A										
	muts (the cleat into the flange Used for C and G together with										
	BoR) and necessary supporting arrangement using GI full									1	
	threaded rock and slotted rail. Unistrut channel supports of size 41mm x 41mm for rectangular ducts to be used.									l	
	May 4 mm X 4 mm for rectangement buttle to the second					L					
	Ducting shall include guide vanes etc., Ducting shall be designed										
	for SIXIpa I'SP as per the specifications, GSS Ducting: Galvanized		l						J		
	steel sheet shall be of Class VIII - light coating of zinc, nominal 120 gm /sqm as per IS-277.All ducts 900 mm to 1100mm shall		l								
	have Stiffener bracket made of GI 1.25mm thick sheet and										
	1101mm above shall have Stiffener bracket made of GI 1.6mm										
	thick sheet with special profile for strength and rigidity fixed		l								
	throughout the duct perimeter Intermediate between flanges with		l								
	Fastener screws 2 nos for every interval of 150mm.										
	Spacing between duct supports should not exceed 2m i.e GI rods										
	with GI T channels. In case of duct sizes above 1800mm, MS										1
	angles duly painted with black enamel paint should be used along		l								1
	with neoprene pad in between the duct & MS angle. All duct									1	
	support to be provided with check nuts (lock nuts).										
	While selecting the duct supports vendor shall ensure vibration										
	free installation. Quoted price shall be inclusive of light testing		ĺ					1			
	with complete arragement & accessories for leakages. Quoted price shall be inclusive of necessary scaffolding charges towards		1							1	1
	installation of supply/exhaust air ducts outside or within building										
- 3	wherever required. Quoted price should also include necessary										
	charges towards duct supports including MS angle/channel							N 1			
	arrangement as required for ducts being installed outside or							1			
	within building wherever required.										
	All duct construction and installation shall be in accordance with										
- 1	SMACNA standards. In addition ducts shall be factory fabricated				1 1						
	utilizing the following machines to provide the requisite quality of										
	ducts.	-	0.0					0%	-		
	24 G-GSS-0.63MM (1MM TO 250MM) - C & SS 24 G-GSS-0.63MM (251MM TO 1000MM) - TDF Flanges	Sqm	108.4				108.4	0%	-	PO Qty	105.00
	22 G-GSS-0.80MM (1001MM TO 1200MM) - TDF Flanges, Guide		2.0				2	0%		100%	2.00
d	Vanes & Stiffeners Rods 20 G-GSS-1.00MM (1201MM TO 1300MM) - TDF Flanges, Guide	Sqm	5.7974					92224		0.0000000000	
	Vanes & Stiffeners Rods	8)	0.0					0%	5:		
e	18 G-GSS-1.25MM (1301MM TO Above) - TDF Flanges, Guide Vanes & Stiffeners Rods	Sqm	0.0					0%	-		
	a Juneilers mas										
	DUCT INSULATION MATERIALS										_
	THERMAL INSULATION FOR DUCTWORKS Supply, Installation, Testing & Commissioning of Thermal										1
	insulation closed cell elastromeric nitrile rubber insulation							1			1
	manafactured as per ASTM E 84 test with density between 40-		1					1			1
	60 kg / m³(External and internal) for spiral duct, Material shall										
	be FM GLOBAL approved, food grade material with antimicrobial properties, Class 'O'. Insulation material should				1			1	1		
	meet NFPA 90A supplementary materials for air distribution								ľ)		
	system which should not absorbs less 0.2% water by volume (ASTM)										1
	c 209), should not support microbial growth (ASTM C1071, G21,									1	1
	G22) and should emit objectionable odors (ASTM C 665) and should		l								1
	have thermal conductivity of 0.27 (R - 2.78 in 3.4" thickness) and										
	water vapor permeance of 0.10. Scope shall include the cost for aluminium foil which to be laid over the thermal insulation.										1
	Aluminium foil which to be taid over the thermal insulation. Aluminium foil shall provide protection against scratches.			1							1
	, and the second										1
									-		_
	Insulation material shall be bonded with the ducts using metal										
	screw and washers to facilitate grip to the GI sheet.Insulation							1			
	materials brought on site should be installed following the manufacturer recommended methodology and using the										
	appropriately suitable manufacturer recommended cutting,										
	measuring, pasting tools & tackles. It is advised to use the		1				1				1
	manufacturer's tool box for installation of insulation materials on site.										1
a	9mm thick	Sqm	0.0					0%			
ь	13mm thick	Sqm	62.4				62.4		/.	100%	62.40
15.2	ACOUSTIC INSULATION FOR DUCTWORKS				-				/		
13.2	ACCOSTIC INSULATION FOR DUCTWORKS										-

	SITC of internal acoustic lining within air ducts plenum with open cell 10mm thick Elastromeric nitrile rubber insulation manafactured as per ASTM E 84 test with density140-180 kg / m. Material shall be FM rated as per the approved shop drawings / specifications. Insulation material should meet NIPA 90A supplementary materials for air distribution system which	Unit		Length	Breadth			Qty		Qty
	should not absorbs loss 0.2% water by volume (ASTM c 209), should									
	not support microbial growth (ASTM C1071, G21, G22) and should entit objectionable odors (ASTM C 665) and should have thermat conductivity of 0.27 (R = 2.78 in 3.4" thickness) and water vapor permeance of 0.10. • Class "1" Material.									
	Insulation sheets should have self-adhesive backing for faster installation and better quality. The adhesive used in self-adhesive backing should be Fire Retardant, LEED compliant and zero VOC.									
	insulation material shall be bonded with the ducts using metal screw and washers to facilitate grip to the GI sheet. Insulation materials brought on site should be installed following the manufacturer recommended methodology and using the appropriately suitable manufacturer recommended cutting, measuring, pasting tools & tackles. It is advised to use the manufacturer's tool box for installation of insulation materials on site.									
	10mm thick-acoustic insulation for main duct outlets as per HYAC drawings	Sqm	6.85			7	0%	-	100%	6.8
b :	20mm thick-acoustic insulation for main duct outlets as per HYAC drawings	Sqm	0.0				0%	•		
16.0	AIR DISTRIBUTION DEVICES									
	MANUAL TYPE VOLUME CONTROL DAMPERS									
	Supply, Installation, Testing & Commissioning of Volume Control Dampers made out of 100 x 40 x 1.55 mm thick galavanised steel frame and blades of 1.55 mm galavanised sheet steel.	Sqm	0.7			1	0%	٠	100%	0.7
16.2	ALLUMINIUM COLLAR DAMPERS									
a (Supply, Installation, Testing & Commissioning of Collar Dampers or neck damper of opposed blade type made out of Aluminium alloy extrusion with anodised matt black finish (AL. blade thickness 1.0mm, Border thickness-1.3 MM). Qty is for Supply air grilles	Sqm	1.7			2	0%	-	100%	1.7
16.3	CONTINUOUS LINEAR GRILLE									
S F a c C	Supply, Installation, Testing & Commissioning of Extruded AL powder coated continuous, discrete grilles for supply & return air distribution of 100 to 600 mm wide with 0 / 15 / 30 / 45 deg (AL.frame thickness 1.2MM, Louver thickness-3 MM). Deflection as specified in the approved shop drawings. Grilles complete with integral flanges on both sides & ends as required complete with corner pieces.(colour for the grill to be confiremed by Arch/ PMC team before placing the order)									
a 1	150mm wide	Nos	21.0			21	0%	-	100%	21.0
	POWDER COATED ALUMINIUM GRILLES- FOR EXHAUST AIR & FRESH AIR APPLICATION									
P t	Supply, Installation , Testing & Commissioning of Extruded AL powder coated grilles for exhuast air & Fresh air application with 0 degree deflection. AL frame thickness 1.2MM, Louver thickness-1MM/ 3 MM (colour for the grill to be confirmed by Arch/ PMC team before placing the order). The sizes of the grilles shall be as mentioned below									
	500mm x 600mm	Nos	3.0			3	0%	5.0.2	100%	3.0
b 2	200mm x 200 mm	Nos	2.0			2	0%		100%	2.0
	4 WAY SUPPLY AIR DIFFUSERS- SQUARE TYPE									
e d n	Supply, Installation, Testing & Commissioning of Powder coated, extruded aluminium, removable center core type, supply air diffusers with Collar Dampers or neck damper of the following neck sizes.									
	(All are of 595 x 595 MM Outer to Outer Size) 300 x 300 MM (Neck Size)	Nos	1.0				0%	-	100%	1.0
5 3	SOUND AND THE (HELK SIZE)	inus	1.0			- '	0%	7	100%	1.0



Sr.No	Details of Work	Unit	No.	Measurem Length	ireadth	Height	Total Qty	Claimable %	Claimabl Qty	Claimable %	Claimabl
	Supply, installation, testing B Commissioning of Electro-Static DRY scrubber for the above exhaust rating of 3600 CFM. The vendor shall include the Pressure drop to be 20mm Mg, works with necessary valve arrangement. The scope of supply should withde complete system for Electrostatic Dry scrubber operation it shall also include the carbon filters for residual carbon content removal The Electrostatic Ali Cleaners shall be supplied as a one-piece factory joined assembly of individual section(s) selected to treat oil inist, smoke, fume, grease B dust/powder problems.	5.000							30		Qty
	Housing shall be constructed with minimum 1.6mm thick steel sheet with reinforced structure & powder coated to protect against rust and corresion. It shall have a hinged door for cell access, located one side of the unit. The door shall be gasketed to prevent air leakage. There shall be a safety interlock switch to cut off primary supply when the access door is opened. The external finish shall be a durable industrial grade semi-gloss epoxy polyester coating suitable for outdoor installations.										
	lonizing-Collecting cell(s) shall be of one-piece construction 13.38" (340mm) deep in direction of airflow. The dimension of the collection cell shall be 18.89" (480mm) H x 19.76" (502mm)W Max. All support framing, end plates and ionizer ground electrodes shall be 0.080 inch (2mm) thick aluminum. Both repelling and collector plates shall be 0.032 inch (0.8mm) thick aluminum alloy material rigidly retained in place with tubular spacers and tie rods. Each plate shall be corrugated, perpendicular to airflow direction. Spacing between plates shall be no less than 0.318 inch (8mm). Each cell shall weigh at least 17 kg with at least 8 stainless steel spiked blade ionizers. Tungsten wire ionizers will not be accepted										
	Ionizing spiked blade shall be made of Stainless steel 304 material, rigidly supported both vertically and laterally. Spiked ionizer to ground electrode spacing shall be 1.0" (25mm). High voltage support insulators shall be of Teflon material for dielectric strength.										
	Equipment should be selected on the basis of required Air handling capacity so as to achieve 90-95% particulate matter removal efficiency according to DOP Test or EN779 European standard (Equivalent to ASHRAE 52.1). Vendor should submit the Test report from the Lab having Test facility according to ASHRAE 52.2 or EN779. In the absence of Test report Vendor should demonstrate the efficiency claim at their manufacturing facility at their expenses.										
	Power supplies shall be 100% solid state, operate on 230 VAC, 50 Hz, 1 Phase input and provide a dual high voltage output of 12-13 KVDC for the ionizer and 6.0-6.5 KVDC for the collector in normal operation conditions. Current output at the high tension shall be 12mA. A maximum power output for the solid state power supply shall be 120 watts to maintain the specified collection efficiency. Integrally mounted Electrical interlocks shall be provided to prevent access to the high voltage components without first interrupting the primary input power. The power supply shall operate over a temperature range of -32 degrees F to 140 degrees F, be overloaded self-protecting and accommodate an LED lights indicating the performance status of the ionizing/collecting cell. High voltage output components in the power supply shall be sealed with epoxy for moisture resistance.										
	The power pack shall incorporate a short circuit arc protection with automatic power restoration system to prevent overload.										
	There shall be 2 LED lights (Green & Red) installed on the access door of the unit to indicate the status of the air cleaning system										
	BMS (Building Management System) interface: The power supply (pack) shall have a 2 wire dry contacts (NO/NC) for remote link to Building Management System. This is for performance indication of the air cleaning system										
	Supply , Installation , Testing & Commissioning of Electro-static Dry Scrubber unit complete with all sections as listed above & detailed in tender drawings	Nos	1					50%	0.50	50%	0.5
	FIRE ALARM SYSTEM										
1	FIRE Alarm System Works										
1.1	Supply installation testing and commissioning of addressable type smoke detectors with LED indication lamp, MS Back box, detector base braket, along with complete fixing accessories. (Above false ceiling)	Nos	RO				RC	,	/		

Sr No	Details of Work	Unit	No.	Measurem Length	ente Breadth	Height	Total Qty	Claimable %	Claimabi Qiy	Claimable %	Claimabl
1.2	Supply installation testing and commissioning of addressable type smoke detectors with LED indication lamp. Mt Rack how, detector has been beated, along with complete firing accression (fedine false)	Non	40		ACC STATE OF THE		4	0%		100%	Qty 4.00
1 24	celling) Giph's fretallation testing and commissioning of addressable type Mail's Sensor Head descripes with 117 briffs alone lamp, MS Back hos, design to base looked, along with complete finding accretion	Nos	30				3	0%	,	100%	3.00
.,	Supply installation testing and commissioning of Response industries with complete fixing accretions for the detectors	111.00	RO				RO				
1,4	placed above false colling and below false flooring supply installation testing and commissioning of addressable flooring cure NTROBI along with its control modules complete with all Tiving materials.	Nos	1.0				1	0%		100%	1.00
13	Supply and installation of analogue addressable type Manual call points with Glass and harmer and monitor module with complete fixing accessories also with self illuminated signage.	Nos	1.0				1	0%		100%	1.00
1.6	Supply and installation of Short circuit Fault Isolators @ 20 detectors with complete fixing accessories	Nos	RO				RO				
1.7	Supply and installation of Monitor Module with complete fixing accessories	Nos	1,0				1	0%		100%	1.00
1.8	Supply and installation of Control Relay Module with complete fixing accessories	Nos	1.0				1	0%		100%	1.00
1.9	Supply and laying of PVC insulated, 2C x 1.5sq.mm shielded armored FRLS copper cable (RED COLUR) including cable glands and all fixing accessories where ever required complete with end terminations at both sides. The colour of the cable shall be RED only. (Shall be on actuals).	Rmtrs	48.30				48.3	0%	æ	100%	48.30
1,10	Supply, installation, testing and commissioning of Addressable fire alarm Panel which consists of display board which will have 160 Character Display with Touch key pad, Mother board which will have ARM CORTEX M3 32 Bit Processor, Inbuilt RS-485 Networking Circuit for peer to peer networking, Inbuilt USB 2.0 Port for upload and download the Configuration tools, Two inbuilt programmable inputs, Two inbuilt NACs, and Three Programmable Relays, and 4 Loop Card circuits. power Supply, Installation and Commissioning Board which will have SMPS fully protected board, which its operates on 120 to 220V AC ± 10% with 50/60 Hz, battery backup 24V DC with built-in charger, the panel have IP-50 rating Optional: for BMS integration thru MODBUS converter, Graphical Software, Software for TCP/IP Module, provision for GSM based Auto dialler, provision for printer thru compatible module, fire alarm panel with battery backup for 6 hours operation, with battery charger, alarm bell, test buttons etc.						0	0%	S	100%	ė
a	2 loop panel	Nos	1.0				1	0%		100%	1.00
ь	4 loop panel	Nos	RO				RO			100%	1.00
1.11	SITC of Hand held Fire Extinguisher - ABC Powder - 6 Kg with floor mount accessories	Nos	2.0				2	0%	2	100%	2.00
1.12	SITC of Hand held Fire Extinguisher - CO2 - 4.5 Kg with floor mount accessories	Nos	2.0				2	0%	•	100%	2.00
1.13	Supply installation testing and commissioning of Emergency Exit - LED Battery Backup(180Min)	Nos	0				0	0%	-	100%	. 2
1.14	Supply installation testing and commissioning of Fire Exit - LED Battery Backup (180Min)	Nos	3.0				3	0%	-	100%	3.00
1 15 1	Supply installation testing and commissioning of Exit - LED Battery Backup (180Min)	Nos	0				0	0%	1.7	100%	
2	PA System Works										-
2.1	Supply and installation testing and commissioning of 6 Watt 180mm dia Surface mounted white colour speakers along with all fixing accessories.	Nos	0								
2.2	Supply and installation testing and commissioning of 6 Watt Recesse Mounted Ceiling speakers along with all fixing accessories.	(2009)	4.0				4	0%	-	100%	4.00
2.3	Supply and laying of shielded twin twisted pair 1.0 sqmm cable in existing conduit (Shall be on actuals).	Rmtrs	48.9				48.9	0%	-	100%	48.90
2.4	Supply and fixing of 20mm dia heavy guage GI conduit concealed in wall/ above false ceiling for taking copper wires including all accessories such as Conduit junction boxes, bends etc as required (Shall be on actuals).	Rmtrs	39.2				39.2	0%		100%	39.20
2.5	Mixer Amplfier -240W with Pre recorded Message , Music Ssytem etc complete in a PA rack (The rate to include the Cost of rack and other required acessories)	Nos	RO				RO				
2.6	Mixer Amplifier -120W with Pre recorded Message "Music Saytem etc complete in a PA rack (The rate to include the Cost of rack and other required acessories)	Nos	1.0				1	0%	/-	100%	1.00
	FIRE SPRINKLER SYSTEM								/		

		1		Measurem	erest a				(between t		Calmahi
1. 10-	Statude of Missel	17mm	Ma	Length	Breadth	Hetghe	Lucies Chib	I laterable %	997	Claterable %	. 115.00 110.00 115.00
3.7	Stayob installation, treding and commissioning of G.1. Stayob installation, treding and commissioning of G.1. Stayob profe piping as yes (S. 1.598)/5086 (D. Eneged Threadest (D. Eneged profes switched & Elemin and almost Suprime union flanges, bends, nothing particular mech as treis, Johnson union flanges, bends, nothing particular mech as treis, Johnson union flanges, bends, nothing particular mechanical form particular forms & almost being composite rother sollings to solng consent with riberson, hangers using another factories unto filt men. & almost being compared to generations of harmost suggester compatito. Solt quantities that include particular profit one coal of pinc control primarily of pose & brackets and clamps as per IS-5 for above ground piping as per the NRC I IS standards and local fire service dependenced requirement compatite including suspek, and installation of G.1. Rods, clamps and , fasteners etc. All supports shall be bot dip galvanized in the range of DET.	them.	No.	Length	Breadth	Hetghe	Total (Sty	Claterable %	(Princeph)	Chatasable %	Chairmaile (B)
	tel micron Bil to Bil micron with 7 tank process, hot dip patuamoring shall be confirming to IS 2629/2633/4759/6745. Another fastiners to be used of chemical type only where pipe supports to be taken from brick/block work.										
	150mm nominal dia	Rmtrs	0					0%			
	100mm nominal dia	Rmtrs	0					0%			
	80mm nominal dia	Rmtrs	0					0%		V	
	65mm nominal dia	Rmtrs	0					0%	-		
	50mm nominal dia	Rmtrs	0					0%	-		
-	40mm nominal dia	Rmtrs	0					0%	- 2		
	32mm nominal dia	Rmtrs	4.2	_			4.2	0%		PO Qty	3.00
- 8	25mm nominal dia	Rmtrs	32.1				32.1	0%		PO Qty	30.00
3.2	Supplying, installing, testing and commissioning conventional Standard Response Sprinkler quartzoid bulb type with 15mm screwed end connection of 68 deg. C. temperature rating, K-Factor =5.6 GPM/psi// (80.6 LPM/bar//) and orifice shall not be less than 6mm. Sprinklers shall be UL Listed / BIS approved with Chrome finished.										
	Pendent Sprinkler	Nos	RO					0%			
b	Upright Sprinkler	Nos	RO					0%		10000	100
b	Concealed Sprinkler	Nos	16.0				16.0	0%		100%	16.00
3 3	Stairnless steel corrugated flexible pipe(hose) for dropping sprinklers below false ceilling, pipe shall be 16 bar pressure rating and 1500 mm long, 25 mm dia with union / reducer collar clamps etc. as required.	Nos	16 0				16.0	0%	•	100%	16.00
3.4	Supply & fixing of approved type rosette plates (Recessed type, in two piece) for Sprinklers below false ceiling area.	Nos	16.0				16.0	0%	**	100%	16.00
3.5	Supply and Installation, Testing and Commissioning of CI butterfly valves (body conforming to IS 210 GR FG 200) slim seal standard lever operated type conforming to IS 13039/BS5155 with required flanges, nuts, bolts etc. complete with supervisory tamper switch for monitoring. The valves shall be suitable for 150 psi pressure rating. Tamper Switch equipped with 2 Nos. of NO-NC contacts for monitoring.										
	100 mm dia	Nos	0					0%			
b	60 mm dia	Nos	0					0%	5:		
c	65 mm da	Nos	0					0%			
26	Fire Sprinkler Pipe Modifictation Works (Extending the branch	Lot	0					0%	2		

Measurement Taken By ART INFRACON
Name & Sign of Vendor

Measurement Certified By

Ashtsh Nagow Name & Sign of Site in Charge