



इरकॉन इन्टरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)
An integrated Engineering and Construction Company



No. IRCON/SEC-32/CIVIL/T2/INT_FIN/01/2023 / 2681

Date: 10.10.2023

"Acceptance Copy"

To,
M/s Aditya Enterprises.
A-169, Basement Shivalik,
New Delhi – 110017

Sub. : Interior fit out works including allied Civil & Electrical works of Tower II, IRCON International Tower, Sector 32, Gurugram – **Letter of Acceptance (LOA).**

Ref. : e-Tender No. IRCON/SEC-32/CIVIL/T2/INT_FIN/01/2023, dated 14.09.2023

Dear Sir,

With reference to the above, this is to inform you that your e-tender for the subject work of **Interior fit out works including allied Civil & Electrical works of Tower II, IRCON International Tower, Sector 32, Gurugram**, has been accepted by Ircon International Limited (IRCON) at a total contract value of **₹ 2,16,71,477.00 (Rupees Two Crore Sixteen Lakh Seventy One Thousand Four Hundred Seventy Seven Only)**, inclusive of all taxes, duties, levies etc. and terms & conditions stated hereunder :

1. SCOPE OF THE WORK

The scope of work under this LOA covers Interior fit out works including allied Civil & Electrical works of Tower II, IRCON International Tower, Sector 32, Gurugram in accordance with Clause 2.0 of SCC. The work shall be carried out as per requirement of IRCON and as detailed by Architect.

The items mentioned in the Bill of Quantity are only indicative. The work shall be executed as instructed by IRCON. The contractor shall start the work immediately on the receipt of this LOA.

2. ACCEPTED RATES

2.1 The accepted rates for the various items are stipulated in the Bill of Quantity enclosed at Annexure-A to this LOA. These accepted rates shall be inclusive of the cost for carrying out the various activities /operations to fulfill the complete scope of works. The accepted rates shall be inclusive of all incidental charges, cost of mobilization/demobilization of all resources like manpower, material, machinery, equipment etc., cost of lodging/boarding/transportation, insurance for the contractors personal etc.



Signature
10/10/23

- 2.2 In terms of clause 6.0 of the Special Conditions of Contract, the rates as per accepted Bill of Quantities, shall be firm and hold good till the completion of the works, and no additional claim or amount shall be admissible on account of fluctuations in market rates, increase in taxes, levies, fees, royalties etc. during the currency of contract and even during the extended period of contract.

3. COMPLETION PERIOD

You shall commence the work immediately from the date of issue of this LOA. The completion period for the contract is **03 (Three) months** from the date of issue of Letter of Acceptance.

4. PAYMENT TERMS

The payment for the work shall be made in accordance with clause 62.0 of General Condition of Contract. The payment will be made by transfer of the payable amount in the bank account as per the details submitted by you.

5. RETENTION MONEY

In terms of clause 8.2 of the General Conditions of Contract, retention money shall be recovered from each on account/final bills of the Contractor @ 10% of gross value of each bill after adjusting Earnest Money Deposit (EMD) amount till the amount so recovered including EMD amount adds upto 5% of the contract value of the work. In case of variation in the total contract value, the above limit of 5% shall be with respect to the revised contract value. The release of the retention money shall be in accordance with clause 8.4(i) of the General Conditions of Contract.

6. PERFORMANCE SECURITY

In terms of clause 8.1 of the General Conditions of Contract, performance guarantee in form of irrevocable B.G. as per Annexure-II of GCC @ 5% of contract value plus BG for additional value in terms of clause 8.1 (vii) within 21 (twenty-one) days from the date of issue of LOA but before signing of contract agreement.

7. DEFECT LIABILITY PERIOD

In terms of clause 10.0 of Special conditions of contract, the defect liability period for the above work shall be 12 (Twelve) Months from the certified date of completion of works. The contractor shall be required to rectify any defects in the works, notified by IRCON within the above defect liability period without any extra cost to IRCON.



Signature

8. OTHER TERMS & CONDITIONS

- 8.1 Except for the deviations specifically brought out in various clauses of this LOA the execution of the above contract shall be governed by the various stipulations in the e-tender documents submitted by you comprising of Notice Inviting Tender, Form of Bid, Instructions to tenderers, Appendix to tender, Special Conditions of Contract, General Conditions of Contract, Safety Health & Environment Specifications, General Technical Specifications, Drawings and Bill of Quantity. Any deviations from the above conditions, submitted by you in your tender, if any, stand withdrawn.
- 8.2 This LOA shall be treated as work order for commencing the work. This LOA shall constitute a binding agreement till such time a formal agreement is signed between you and IRCON for the execution of this contract. The agreement should be signed within 28 days after the issue of LOA. This letter of acceptance is being issued in duplicate, out of which one copy marked as "Acceptance Copy" may please be returned, duly signed and stamped on each page as a token of your unconditional acceptance of the same.

Thanking you,

Encl : as above.

Yours faithfully,
For & on behalf of
IRCON INTERNATIONAL LIMITED


10/10/23
(C S Prasad)
Chief General Manager



Unconditional
acceptance

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10/10/2023

Copy to: JGM/Finance/HQ, IRCON : for information please.

Sl. No.	Description of Item	Approximate amount of work (₹)
1	Schedule-A: Value of Works based on DSR-2021 & and DSR (E&M) 2018.	84,81,281.28
2	Schedule-B: Value of Works other than DSR-2021 & and DSR (E&M) 2018 items (NON-DSR Items).	1,90,20,593.09
	Total	2,75,01,874.37
	Rate Quoted	21.20% (below)
	Grand Total	2,16,71,477.00

1. The approximate quantities for the Items of Schedule-A & Schedule-B shown above can be referred in the attached Bill of Quantities. The quantities given in the Bill of Quantity are only approximate and Indicative and can vary upon actual execution.
2. In case of discrepancy in the description of any item, the description provided in DSR 2021 & and DSR (E&M) 2018 will prevail. The decision of Engineer-in-Charge is final and binding in this regard.
3. The contractor is required to execute any other item of work of DSR-2021 & and DSR (E&M) 2018, not covered in Schedule-A at the same percentage rate quoted for Schedule-A.
4. The description of items given is brief in nature. The detailed scope of work covered under each item is described in CPWD Specifications 2019 (Volume 1&2). The quoted rates shall be deemed to include all the operations/ costs involved in the execution of the items.
5. Above prices inclusive of all type of taxes, duties and levies imposed by Central/ State Governments and local bodies such as, compensation cess, Labour cess, custom duty, royalties and any other levy including IGST/CGST/SGST/UTGST. No additional amount shall be paid or claim be entertained on these accounts by IRCON.



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Summary of Works

Name of Work: Interior fit out works including allied Civil & Electrical works of Tower II, IRCON International Tower, Sector 32, Gurugram.

S.No	Description	Amount(Rs.)		
		DSR	Non-DSR	Total
1	INTERIOR WORKS			
	a Civil works	9,03,417.00	1,04,100.00	10,07,517.00
	b Sanitary and Plumbing	7,65,713.50	5,04,758.55	12,70,472.05
	c Finishing Work			
	ii Granite	43,276.50	-	43,276.50
	iii Vitrified Tiles	15,80,478.20	27,000.00	16,07,478.20
	iv Laminate flooring	-	39,410.25	39,410.25
	v Ceramic and mosaic Tiles	2,44,593.50	-	2,44,593.50
	vi Carpet Flooring	-	1,42,000.00	1,42,000.00
	vii CC flooring	93,740.00	-	93,740.00
	d Partition & Paneling work			
	i Plywood with framing work	61,470.00	24,62,856.66	25,24,326.66
	ii Painting	4,69,260.00	-	4,69,260.00
	iii Laminate, Veneer, decorative panels, lacquered glass & wallpaper	-	1,00,995.73	1,00,995.73
	v Misc finishes over partition/walls	-	31,267.50	31,267.50
	e False Ceiling	13,91,104.50	17,54,361.30	31,45,465.80
	g Doors	4,71,213.08	4,00,897.69	8,72,110.77
	h Misc	-	6,25,539.75	6,25,539.75
	Total for Interior Works	60,24,266.28	61,93,187.43	1,22,17,453.71
2	MODULAR FURNITURE			
	a Fixed Furniture (Workstations)	-	41,62,750.00	41,62,750.00
	Total for Modular Furniture	-	41,62,750.00	41,62,750.00
3	ELECTRICAL			Rs.
	a Distribution Board, Wiring	24,57,015.00	-	24,57,015.00
	b Light Fixtures	-	18,55,055.66	18,55,055.66
	c Misc (including earthing etc)	-	2,72,000.00	2,72,000.00
	Total for Electrical Works	24,57,015.00	21,27,055.66	45,84,070.66
4	HVAC			
	a AC AIR DISTRIBUTION	-	33,26,000.00	33,26,000.00



Signature

10/10/23

S.No	Description		Amount(Rs.)		
	b	VENTILATION SYSTEM	-	50,750.00	50,750.00
		Total for HVAC works	-	33,76,750.00	33,76,750.00
6		Passive Networking			
	a	IP PABX SYSTEM	-	13,10,100.00	13,10,100.00
	b	CCTV Solution	-	2,83,100.00	2,83,100.00
	c	Networking	-	15,67,650.00	15,67,650.00
		Total for Passive Networking	-	31,60,850.00	31,60,850.00
		Total	84,81,281.28	1,90,20,593.09	2,75,01,874.37



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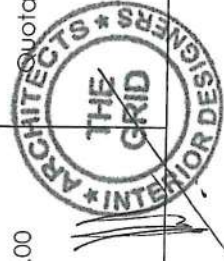
ARCHITECT / CONSULTANT :

architects and interior designers E - 326, greater kailash -II, new delhi - 110 048

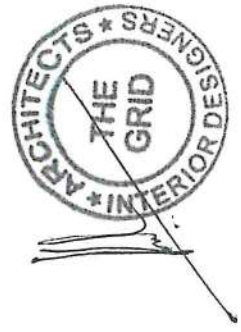
PROJECT :- Interior & Furninshing Work of TOWER 2 -Ircon Tower ,Sector-32 ,Gurugram ,Haryana

INTERIOR RENOVATION

S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
1	DISMANTLING WORK						
	Note: Dismantling to be done at all heights including all tools and scaffolding. It shall be carried out with proper safety measures and without hampering other activities and services running on other part of the building or the floor.As per direction of the Engineer- In-charge.						
1.1	Dismantling and disposing off civil work, Granite/marble/kota stone flooring and stone/ Tile wall cladding along with mortar etc. complete with proper safety precautions, including cleaning of surface and to make surface ready for new work and disposing off debris from all floor to any earmarked area within the Ircon campus. And further disposing of the debris at approved area earmarked by municipal or local authority for further disposal, including transportation lifting shifting etc complete as required. It shall be executed in phased manner day/night and according to local authority /municipal guidelines . It includes all supporting items, scaffolding etc that will be required for safe removal of flooring & cladding and to avoid any cracks or damage that may happen during dismantling work. All unserviceable items to be cleaned on daily basis according to client's instructions and as per direction of engineer in charge.Dismantling work are to be done in phased manner for different floors / different areas as per clients/ architect instructions. Site is to be cleaned and prepared for new work.	60	Sq.M		200.00	12000.00	Quotation
1.2	Dismantling and removal of existing doors & windows of varying sizes, shutter of Aluminium/wooden/ MS including chowkhats, architrave, holdfasts etc. complete and stacking at earmarked location within the campus. And further disposing of the debris/unsusable items at approved municipal corporation area, including transportation lifting shifting etc complete as required. Actual sizes of doors/windows may vary at site but item shall be paid on number basis irrespective of sizes. In case of major differences or double leaf in size EIC may approve and split into integer value.	2	Each		500.00	1000.00	Quotation



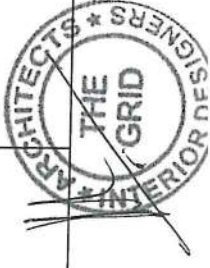
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
1.3	Dismantling, removal and disposing off for all heights and floor of existing false ceiling work of gypsum, POP, gypsum/metallic tiles etc. along with form work, supports etc with proper safety precautions. It shall be carried out without hampering or disturbing other part of the building taking into consideration of services like electrical, fire fighting etc. running above or below false ceiling. It includes all tools and tackles required for dismantling works including all its support and frames at all heights along with necessary scaffolding and platform arrangements. All debris/ dismantled items shall be stacked with all tools and tackles from 7th floor to any earmarked location as directed by engineer in charge. And further disposing off the debris at any municipal approved location including transportation, lifting, shifting etc. complete. Item shall be carried out in phased manner for different floors / different areas & in day/night or holidays as per clients/ architect instructions and debris disposal to municipal corporation area as per local authority guidelines. Site is to be cleaned and prepared for new work.	10	Sq.M		50	500.00	Quotation
1.4	Dismantling, cutting, core cutting in RCC slabs, making of holes and disposing off brick masonry work, RCC work along with mortar, aggregate & reinforced steel manually or by mechanical means with proper safety. It shall be carried out in planned manner without damaging near by walls, floor or ceiling and shall be executed in phased manner so as to minimize disturbance to other areas/floors. Site to be cleaned and prepared properly for new work. All debris shall shifted to any earmarked location within the campus with all leads & lifts and further it shall be disposed off to any municipal approved location including lifting, shifting & transportation.	5	Cum		1100	5500.00	Quotation



S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
1.5	Removing and refixing of existing toilets fittings and fixtures along with removal of pipe and plugging existing pipes to avoid any leakage as per new layout. (The measurement shall be done on complete set basis such as water closet, concealed cistern along with necessary fitting of angle valve, stop cock etc shall be treated as one set; Wash basin, pillar cock, bottle trap, sensor with necessary fittings of angle valve, stop cock etc shall be treated as one set; Urinal, Concealed Cistern, Sensor, Urinal partition with necessary fittings of urinal partition shall be treated as one set)	5	set		1500	7500.00	Quotation
1.6	Removing existing Glass Doors/ lobby doors and glazing and refixing of doors & glazing to new location as per layout and site conditions, complete with fixing of floor springs/ Door closers and all door accessories, (Breaking of skirting and refixing of skirting in new location will be paid in their respective items) complete with removal of all debris and finishing of work as per site.	18	Sq.M		1000	18000.00	Quotation
1.7	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost) For payment, only the actual area of glass on face of the glass panels provided and fixed in position, shall be measured in sqm.	5	Sq.M	3377.5		0.00	DSR NO. 25.3
	Coloured Tinted glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm. Heat Strengthened clear Glass of approved make having properties as visible Light transmittance						
2	CIVIL WORKS						



S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
2.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	7	cum	8512.1		0.00	DSR NO. 6.4.1
2.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement : 4 coarse sand)	140	sqm	1018.05		0.00	DSR NO. 6.13.2
2.3	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry	140	sqm	86.45		0.00	DSR NO. 6.15
2.4	CEMENT PLASTER (IN COARSE SAND) with all tools and supports 12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)	320	M2	307.25		0.00	DSR NO. 13.4.1
	WATER PROOFING IN TOILETS/ WET AREAS.						
2.5	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/ 5cm. Tear strength in longitudinal and transverse direction as 300/ 250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane, 3 mm thick. covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation. (STP, CICO or equivalent)	30	M2	667.00		0.00	DSR NO. 14.91.1+ 14.92



S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
2.6	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	3.5	M3	10719.3		0.00	DSR 5.3
2.7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement						
	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources).	65	M3	7945.65		0.00	DSR 5.1.3
2.8	Removing, repairing and re-fixing of existing openable side / top hung windows/ventilators at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers, neoprin rubber gasket etc. all complete as directed by the Engineer- in-Charge.	10	Sq.M		1200	12000.00	DSR 25.4
2.9	Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass and making it water proof.	140	Sq.M		340	47600.00	Quotation
3	SANITARY & PLUMBING						



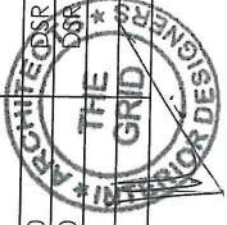
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
	Providing and fixing wall mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including concealed cistern of capacity 6 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.						
3.1	W.C. pan wall mounted with soft closing lid and soft close seat cover, cover plate, hinges and all accessories etc. complete including concealed Pneumatic tank 6L with full frame soft touch Pneumatic water tank with face plate in polished chrome with all connecting pipes , complete with tank and all accessories	4	EA		18,132.40	72529.60	RA
3.2	Providing and fixing of vanity with Table Top Basin 600 MM in walnut or other finishes including all fittings, material ,fixing accessories, labour , consumables, waste coupling, bottle trap, drains, pipes etc all complete as per instruction of EIC.	4	EA		21,296.00	85184.00	RA
3.3	Providing and fixing of under counter Basin 550 x 400 x 155 MM Approx. including all fittings, material ,fixing accessories, labour , consumables, bottle trap, waste coupling, drains, pipes etc all complete as per instruction of EIC. (Hindware Model No. Zen 10049)	1	EA		5,970.25	5970.25	RA
3.4	Providing and fixing urinal with integrated sensor rJaquar OR EQUIVALENT with all accessories complete.	3	EA		13,558.60	40675.80	RA
3.5	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge. Make : Hindware Model No. Dyna 60010 or equivalent	1	EA		12,558.60	12558.60	RA



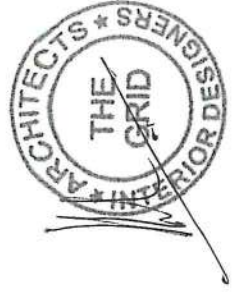
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
3.6	Providing and fixing of single lever Basin Mixer without Popup Waste System with 450mm Long Braided Hoses & bas flange including all fittings, material ,fixing accessories, labour , consumables etc all complete as per drawing and instruction of EIC.	4	EA		5,450.50	21802.00	RA
3.7	Providing and fixing of Angular Stop Cock Cock with Wall Flange including all fittings, material ,fixing accessories, labour, consumables etc all complete as per drawing and instruction of EIC.	30	EA		1,400.58	42017.25	RA
3.8	Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology. 15 mm nominal bore	2	EA	8050.50		0.00	DSR 18.84.1
3.9	Providing and fixing toilet paper holder : C.P. brass	4	EA	680.80		0.00	DSR 17.34.1
3.1	Providing and fixing of Hand Shower (Health Faucet) with 8mm Dia, 1 Meter Long Flexible Tube & Wall Hook including all fittings, cutting of wall, material ,fixing accessories, labour , consumables etc all complete as per drawing and instruction of EIC.	4	EA		1,556.50	6226.00	RA
3.11	Providing and fixing glass mirror: 6mm thick mirror , edge polished, fixed on 25mm SS studs complete. 4-6nos of studs to be used based on the size.	4	M2		3,954.50	15818.00	RA
3.12	Providing and fixing of Swivel towel Holder Twin Type including all fittings, material ,fixing accessories, labour , consumables etc all complete as per drawing and instruction of EIC.	4	EA		1,817.75	7271.00	RA
3.13	Providing and fixing of Soap Dispenser With Metallic Bottle including all fittings, material ,fixing accessories, labour , consumables etc all complete as per drawing and instruction of EIC.	20	EA		1,142.08	22841.50	RA
3.14	DOUBLE COAT HOOK Providing & Fixing in position double coat hook in toilet as per site and direction of EIC.	4	EA		622.33	2489.30	RA



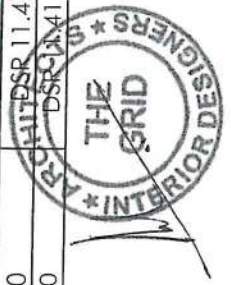
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
3.15	Providing and fixing Hand Dryer as per the site location & instructions of Architect / Engineer .	22	EA		7273.75	160022.50	RA
3.16	Providing and fixing over head shower assembly with nexessary attachments, spout, hand shower, diverter etc complete.	1	EA		9352.75	9352.75	RA
4	C-PVC CONCEALED PIPE LINE						
4.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.						
	Concealed work, including cutting chases and making good the walls ETC.						
	15 mm nominal dia Pipes	100	RM	441.15		0.00	DSR 18.8.1
	20 mm nominal dia Pipes	50	RM	513.75		0.00	DSR 18.8.2
	25 mm nominal dia Pipes	10	RM	626.05		0.00	DSR 18.8.3
	32 mm nominal dia Pipes	0	RM	712.75		0.00	DSR 18.8.4
4.2	External work						
a	32 mm nominal outer dia Pipes	100	RM	435.05		0.00	DSR 18.9.4
b	40 mm nominal outer dia Pipes	10	RM	559.20		0.00	DSR 18.9.5
c	65 mm nominal inner dia Pipes	10	RM	1576.90		0.00	DSR 18.9.6
4.3	Providing and fixing Gun metal ball/gate valve of approved quality						
a	32 mm nominal bore	4	EA	589.9		0.00	DSR 18.17.2
b	40 mm nominal bore	1	EA	707.3		0.00	DSR 18.17.3
c	65 mm nominal bore	1	EA	1490.7		0.00	DSR 18.17.5
4.4	Providing and fixing GUN METALC non- return valve of approved quality						
a	40 mm nominal bore, Horizontal	2	EA	815.05		0.00	DSR 18.19.3
b	65 mm nominal bore, Horizontal	2	EA	2093.8		0.00	DSR 18.19.5
4.5	U-PVC WASTE WATER PIPE						



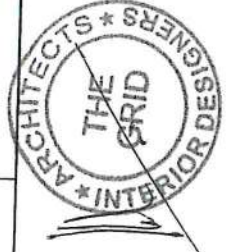
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes conforming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water , including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge.						
a	40 MM Dia	50	RM	785.35		0.00	DSR 18.3.6
b	75 MM Dia	100	RM	879.45		0.00	DSR 18.6.7
c	110 MM Dia	100	RM	1689.5		0.00	DSR 18.6.9
d	160 MM Dia	50	RM	4535.1		0.00	DSR 18.6.10
4.6	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand: 10 graded stone aggregate 40 mm nominal size) all-round S.W. / UPVC pipes including bed concrete as per standard design :						
a	For 100mm pipes	20	RM	895.50		0.00	DSR 19.2
b	For 150mm pipes	50	RM	1095.15		0.00	DSR 19.3
	INTERIOR WORKS						
5	FLOORING WORK and STONE CLADDING						
	Providing and fixing machine cut, mirror/ eggshell polished, Italian Marble stone work for wall lining (vener work) including dado, skirting, risers of steps etc., in required design and pattern (Simple geometrical, abstract etc.) wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge. 18 mm thick Granite/ Italian Marble stone slab. (Stone to be selected and approved by Architect/ EIC)						



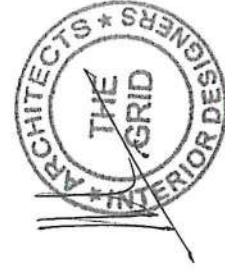
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
	Providing and laying Polished Granite stone in flooring/ wall cladding/sides, sill of windows/ toilet vanity/ storages in required design and patterns, in linear as well as curvilinear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand), laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.						
5.1	Polished Granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent or as per EIC approved (Base price of Granite 180/ SFT) matching to existing granite stone.	10	Sq.M	3908.8		0.00	DSR 11.56.1
5.2	Providing edge moulding to 18 mm thick Granite stone counters, Vanities, sill, jamb, top of windows etc, machine polishing to all exposed edges to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.						
	Granite work	10	Mtr	418.85		0.00	DSR 8.3.2
5.3	Supplying and laying vitrified tiles Premium full body vitrified with water absorption less than 0.08% and conforming to IS : 15622, of approved make, colour and design at all levels and locations using approved first quality tiles in flooring with or without spacers and, laid over abedding of cement mortar bed of mix 1:4 to achieve overall flooring thickness as 50mm and a backcoat of white cement slurry and Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete. with white cement mixed with matching pigment complete with all bye works like covering with plaster of paris, curing etc. at all leads and lifts and as perspecification / instructions of the Engineer Incharge. It also includes skirting of the same all around except at openings.						
a	Size of Tile 600x600 mm	718	Sq.M	1416.65		0.00	DSR 11.41.2
b	Size of Tile 1200x600 mm 12 MM thick	280	Sq.M	1612.75		0.00	DSR 11.41.2



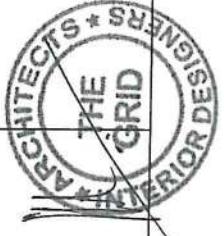
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
c	Tile Spacers and Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling/grouting and finishing complete as per direction of Engineer-in-charge.	280	Sq.M	258.65		0.00	DSR 11.48.2
d	Skirting of the same as of above with height of 100mm	150	R.Mt.		180	27000.00	
5.4	Providing and fixing AC-4grade 6mm -9 mm thick laminated flooring in floors/ skirting on 3mm-4mm foam which is intum laid on 0.01 mm polythene sheet. The laminate panel size shall be 1215mm-1220mmx190mm-195mm. End profiles of the same shade shall be used to end the flooring in the doors openings. (Make: Pergo, Green Mikasa, Armstrong)	30	Sq.M		1313.68	39410.25	RA
5.5	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	230	Sq.M	1063.45		0.00	DSR 8.31
5.6	Providing and laying VITRIFIED Matt/ anti skid floor tiles of (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete.						
	Size of Tile 600x600 mm	30	Sq.M	1311.05		0.00	DSR 11.41.A.3
	CARPET FLOORING						



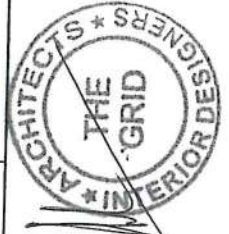
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
5.7	Providing Welspun 500x500 Or 600x600 24-28 Oz Carpet tile 100% SD Nylon type-6 construction face carpet tile with fiber glass polyvinyl chloride backing. The rate shall be inclusive for Comfolene, GermiShield, Markproof, ActiBack, Stainarmour, Nurturfet, Microbefresh, moist proof and the likes with a total thickness of 6.5 mm or as manufacturer's specification. Carpet tiles shall be complied with Flammability Test ASTM E648, Methenamine Pill Test ASTM D2859, Smoke Density Test ASTM E662, Appearance Retention Hexapod test ASTM D5252. Warranty of 15 year will be applicable as detailed on the manufacturer's website. The laying work should be carried out by the authorized installer of the Company in India. (welspun, Belgotex or equivalent)	142	Sq.M		1000.00	142000.00	RA
5.8	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	172	Sq.M	545		0.00	DSR 11.3.1
6	GENERAL NOTES: - Partition Work						
	N.B: - The plywood considered in this estimate shall be BWR Plywood for all the items of Interior & Furniture works. The rate shall be inclusive of anti termite coating on all sides to plywood, teak wood & all the other wooden components of Asian/ Berger/ ICI paints or equivalent approved make.						



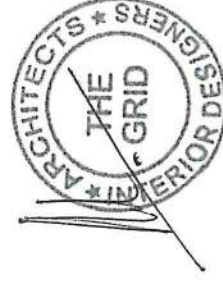
S.No	Description	Qty	Unit	DSR Rate	M. Rate	Amount NON DSR(Rs.)	COMMENTS
	All internal woodwork / Plywood shall be treated with antitermite preservative. All internal framework shall be of Aluminium unless otherwise specified. All exposed edges of Plywood shall be fixed with C.P. Teak Lipping of size as directed by Architect. The skinning shall be in BWR Plywood unless otherwise specified. All exposed veneer surfaces shall be finished with melamine polish. The thickness of the veneer shall be 3.5mm & that of laminate shall be 1.0mm thk. The approved veneer shall be finished with natural melamine polish of minimum 2 coats to have desired matt melamine finish where ever specified. The Partitions & Panelling shall be inclusive of providing & fixing in between the frames, 50mm thk Rockinsul Slabs of Rockwool India Ltd of density 96 kgs / cu.m of standard width as per the available clear distances between the existing frames as directed wherever required & instructed including above false ceiling framework (PAID IN SEPERATE ITEMS).						
	Full height partition to have framework above false ceiling as required to fix the same to the ceiling slab . However the cost towards any additional support for frameworks to be fixed to the main ceiling shall be deemed to have been considered in the quoted rates and no separate payment shall be made for supporting elements of partitions / panelling / glazing, above the false ceiling level.						
	The rate shall be all inclusive of the necessary hardware, fittings, fixtures & including glass & finishing for the same. The rate shall be also inclusive of pattas & bands, grooves at any level, any design in veneer, textures etc including the necessary framing/ openings for Electrical, Telephone & AC outlets. Further it is important to note that the Glasses wherever specified for the items of Partitions & Panelling if any shall have polished edges as per the direction & thickness as indicated by the Architect or Engineer in charge						
	The rates quoted for the Items of Partitions & Panelling of any / all types shall include the cost towards Providing and fixing additional 75mm wide Patta raised over and above the given ply for design including designer grooves etc. complete as per the instructions and to the complete satisfaction. Nothing additional would be paid on account of any pattas / bands provided for the said items.						



S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
6.1	PARTITIONS / PANELLING FRAME						
	Measurement of height shall be taken from finished floor level up to the level of False ceiling, in case of varying heights on either side of partition, average height shall be considered. The rate to include Provision of extra frame work as necessary for skirting and making cutouts for electrical switch plates, switch boxes, light fittings light etc. making provision for laying conduit; as per drawings & directions. in case of wood framework to be applied with 1 coat of anti termite wood preservative.						
	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of 8 mm thick commercial plywood with 4 mm thick MDF board to both side of frame work as per approved pattern by long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher as per manufacture's specification and direction of engineer in charge all complete.						



S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
a	76 mm overall thickness partition with 8 mm thick commercial plywood and 4mm thick MDF board as per approved pattern and 1 mm high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, on both sides including cost of adhesive of approved quality. The grooves shall be finished with required malemine polish. (Plywood with BIS certification marks).	200	Sq.M		3411.85	682,369.52	RA
b	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m3, 50 mm thick, wrapped in 200G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.	200	Sq.M	307.35		0.00	DSR 12.57
c	76 mm overall thickness glazed partition with 12mm thick toughened glass glazing fixed in partition of 8 mm thick commercial plywood and 4mm thick MDF board as per approved pattern and 1 mm high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, on both sides including cost of adhesive of approved quality as per architectural details. The grooves shall be finished with required malemine polish. (Plywood with BIS certification marks). The rate includes providing and fixing of toughened glass in partition with all necessary fittings and fixtures like beading/lipping etc as per drawing and instructions of Engineer-in-charge.	90	Sq.M		3532.00	317,879.65	RA



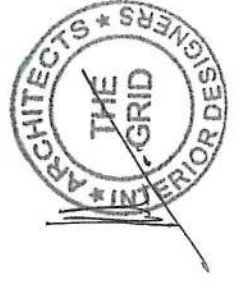
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
d	Clipper Sleek Series System for Glass Partition(Fixed Glass Partition) Supply & Installation of Saint-Gobain partition make "SLEEK" series aluminium profile with Clip-on / U-Section of size 30mm x 21mm in matt black/ natural Alu finish with suitable gaskets for insertion with 10mm thick clear toughened glass. It consists of two way Polycarbonate I profiles, 90 Degree L Junction and T Junction profiles. Transparent profile to be applied on the glass shim for glass wall systems Supplied with double sided adhesive tape. Profile to be inserted in the joint instead of sealing to give continuity glass effect and suitable fasteners for fixing profiles including installation charges.	35	Sq.M		6595.25	230,833.75	RA
6.2	Providing and fixing panelling upto ceiling height consisting of 50x25mm Aluminium sections 1.5 MM thick Anodised Aluminium tube frame for partitions, panelling. The sections are placed @ 600 x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor & ceiling with suitable aluminium angles and fastened with steel screws. Only area upto False ceiling shall be considered for payment. The vertical sections may go higher for strengthening of frame work per site requirement and fixing of 8 mm thick commercial plywood with 4 mm thick MDF board to both side of frame work by long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for plywood as per manufacture's specification and direction of engineer in charge all complete.						



S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
a	38 mm overall thickness panelling with 8 mm thick commercial plywood with 4mm thick MDF board as per approved pattern and 1 mm high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. The grooves shall be finished with required malemine polish. (Plywood with BIS certification marks).	510	Sq.M		2415.24	1231773.74	RA
7	FINISHES						
7.1	Finishing partitions/wall surface with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required/approved shade (Company Depot Tinted) with silicon additives.						
	New work (Two or more coats applied @ 1.43 litre/ Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm. Item shall be executed complete as per direction of EIC	2100	Sq.M	154.45		0.00	DSR 13.48A
7.2	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.						
	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre 10 sqm. Item shall be executed complete as per direction of EIC	2100	Sq.M	64.45		0.00	DSR 13.85.3
7.3	Finishing walls with textured exterior paint of required shade : Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	50	Sq.M	191.4		0.00	DSR 13.85.3
7.4	Providing and fixing 12mm thk Fabric wrapped soft board panels of approved size and profile mounted on 12mm thk commercial plywood backing. The rate should include approved fabric. The softboard to be fixed on existing partition with 4 Nos. 12mm dia SS studs from front surface. Note - The fabric shall be stretched uniformly along the direction of weave and shall be wrinkle free. All complete as per approval of designer & instruction of Engineer-in-charge. (Considered Basic Rate for fabric 300 Rmt)	10	Sq.M		2200.11	22001.10	



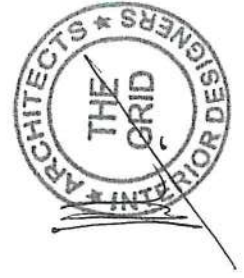
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
7.5	Providing and fixing over partition and ply base as above but finished with 6mm thick annealed GRHA rated lacquered glass (of Saint-Gobain make or equivalent) coated with PU lacquer (minimum 60 micron thick or more) of color Vert Onyx and Aquablue as per approval of Engineer-in-charge / Architect. Glass fixed with compatible neutral core silicon / lacquered glass compatible double sided tape (SGG Planifix or equivalent). Silicon / tape should not react with coating on glass & render even color tone when viewed from glass side. Lacquered glass must be made industrially; must be opaque (if viewed against a support wall) must have panel to panel color consistency highly durable environmentally friendly (no lead, no arsenic, no copper, no formaldehyde) All complete.	10	Sq.M		5124.63	51246.25	RA
7.6	Providing & fixing imported decorative custom made (Make Poly décor/ Marshal/ Green Territor) Wall Paper as per approved shade & design. including preparation of surface with 2 coats of Nubin Glue based epoxy quote. Item to include getting sample approved by Architect/Engineer in charge. Base price of wall paper to be Rs. 200/SFT without GST)	10	Sq.M		2774.84	27748.38	RA
8	MISC. FINISHES OVER PARTITIONS/WALL SURFACE						
8.1	Providing and fixing colored designer Film of 3M or approved make on existing glass of . All complete as per drawing, approval and instructions of the Architect / Engineer-in-charge.	30	Sq.M		1042.25	31267.50	RA
9	FALSE CEILING						
	Item includes false ceiling in design with coves & curves , Suspending system and frame work shall match layout of A.C. Ducts / grills, electrical / fire protection wiring / fixtures, Return Air grills etc.						
	Rate to include provision of extra height supports for frame work needed due to layout referred above and fixtures etc. Rates to include necessary scaffolding.						



S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
	Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45 x15 x 0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes, finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in charge but excluding the cost of painting with:						
9.1	8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.	980	Sq.M	1330.4		0.00	DSR 12.59.1
	Make: G.I. Frame work-Gypsteel/Hilux/USG Boral						
	Make: Calcium Silicate Board- Hilux/Hysil/Aerolite						



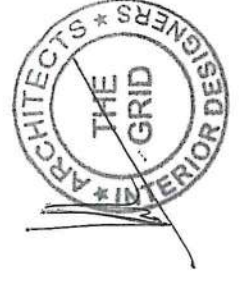
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
9.2	Providing and fixing wooden ceiling with framework in 50mm x 25mm x 1.62mm thick. aluminium box section framework @ 600mm c/c both ways suspended from RCC slab. Panels consisting of 12mm thick plywood finished with 1.0mm thick Laminate of approved shade and sample h. Top of the panel to be treated with anti-termite treatment. Rate to be inclusive of all kinds of profiles and cut outs required for light fixtures, Speakers, Smoke detector, trap doors and AC grill in the ceiling. All exposed surface should be finished with TW lipping & matching melamine polish. All complete as per detailed drawing / instruction of Architect / Engineer in charge.	25	Sq.M		4565.00	114125.00	RA
9.3	Providing and fixing Readymade access panel door / Trap door of following sizes in false ceiling comprising Moisture Resistant Gypsum Board Access Panel with Powder coated Aluminium framing & stiffeners, push-catch closing mechanism with door retaining safety cable and hook, concealed locking arrangement. Trap door frame having Knauf Danoline embossed marking or equivalent.						
a	600 x 600mm	6	each		7568.00	45408.00	RA
b	900 x 1800mm	12	each		12303.50	147642.00	RA
9.4	Mineral Fibre Board False Ceiling						
	Providing and erecting false ceiling of Mineral Fiber ceiling Board of approved make with framework, runners, cross runners & suspenders from the existing RCC ceiling as per the manufacturers details and specification tiles of approved design, texture including the grids in black / white silhouette pattern, as per manufacturers specifications complete including making necessary cut-outs for electrical fixtures, AC diffusers, access trap doors, CCTV, smoke detectors, sprinklers etc as per the instructions of the Architect.						



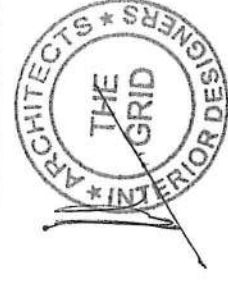
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
	Providing & Fixing of Mineral Fibre Acoustical Suspended Ceiling System with Dune Max Bevelled Tegular Edge Tiles of 15mm thickness and Silhouette 15mm face exposed grid. The tiles shall have sand texture visual with acoustical punchers, Humidity Resistance (RH) of 99%, NRC 0.7 (Average value of Absorption Co-efficient readings taken at 250 Hz, 500 Hz, 1000 Hz and 2000 Hz) as per ASTM C423 standard, CAC of 39db as per ASTM E1414, Light Reflectance ≥84% as per ASTM E-1477, Thermal Conductivity k = 0.052 - 0.057 W/mK, Colour Global White, Fire Performance of class 0/1 as per BS 476 Part 6/7 and Class A as per ASTM E84 with 15mm bevelled tegular edge and 8mm drop in module size of 600 x 600mm. It shall be suitable for Green Building application, with Recycled content of 49%. The tile shall have certifications from GRIHA and GreenPro thereby confirming that it is an environment friendly product. (Armstrong, USG or equivalent)	390	Sq.M		1781.45	694765.50	RA



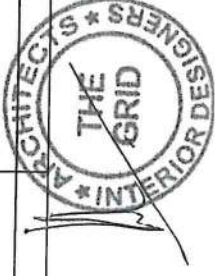
S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
9.5	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece	50	Sq.M	1746.25		0.00	DSR 12.52.2



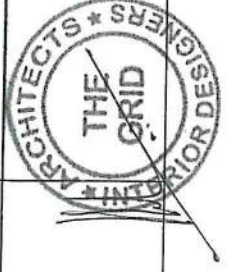
S.No	Description	Qty	Unit	DSR Rate	M. Rate	Amount NON DSR(Rs.)	COMMENTS
9.6	Providing and Fixing Channelled Woodworks perforated panels of width 192mm, thickness of 15mm and length 2400 mm, made of a Moisture resistant fibre board substrate with a laminated facing as per the approved shade (Portland Maple, Sea Beech, Siam Wood & Mystique Walnut, Interior White, Alumina Pearl) and a melamine balancing layer on the reverse side. The boards shall have a special perforation pattern where the reverse surface has a "Helmholtz" fluted perforation with consecutive 3mm wide groove followed by 13/21mm of visible pane. The edges of the panel shall be "tongue-and-grooved" to fix special clips for installation and seamless visual. The back of the perforated panel shall have sound absorbing non-woven acoustical fleece hot pressed to achieve NRC of 0.5. (Average value of Absorption Co-efficient readings taken at 250 Hz, 500 Hz, 1000 Hz and 2000 Hz) as per ASTM C423 and Humidity Resistance (RH) of 70% with camber limit less than 1mm/1000mm and bow less than 1mm/300mm. The panel shall be downwardly installed with tongue and groove mechanism using inside clip on Knauf Prelude 43 with 24 mm wide T - section flanges having rotary stitching on all T - sections i.e., the Main Runner, 1200 mm & 600 mm Cross Tees with a web height of 43mm, 35mm and 30mm respectively. The deflection loading of the system shall be 17.8 kg/m² (as per standard installation layout mentioned below) and main beam tested as per ASTM C635 (Deflection limit less than L/360) with deflection loading of 21.4kg/m.	115	Sq.M		3650.00	419750.00	RA



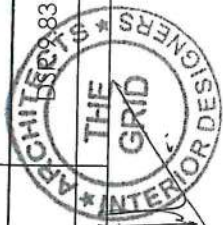
S.No	Description	Qty	Unit	DSR Rate	M. Rate	Amount NON DSR(Rs.)	COMMENTS
	The end details of the main beam and cross tee shall be made of pre hardened steel and the cross tee is designed to provide double locking between "cross tee to cross tee" and "cross tee to main beam". All main beam to main beam and cross tee to cross tee connection shall have a pull out strength of more than 100kg. The T - Sections shall be made of hot dipped galvanized steel of 100 gsm as per IS 277 (2003) and pre-painted steel with baked polyester paint with OT bending capability. To comprise main runner spaced at 1200mm centre to centre securely fixed to the structural soffit using suspension system at 1200mm maximum centre. The First/Last suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall. Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tees. Perimeter trim to be Knauf wall angles of size 3000x19x19mm, secured to walls at 450 mm maximum centre to centre. The panel shall be downwardly installed with tongue and groove mechanism using inside clip on grid. Panel shall be butt jointed in the shorter side using industrial/wood glue and expansion joint of 15mm to be kept at every 7.2m. Expansion joint can be finished using a transition profile. (Make: Armstrong, Bollard)						
9.7	Supply , providing and fixing printed/plain white stretch ceiling (from euroceil or approved equivalent) Colour white comprising aluminium channels and PVC translucent membrane with PVC gripper . The stretch ceiling shall have back lighting with LED modules (OSRAM or equivalent) of multiple strips with compatible drivers. The rates are inclusive of cutouts, all complete as required and as per direction of EIC.(Item also includes supporting frame required)	15	Sq.M		14685.00	220,275.00	RA



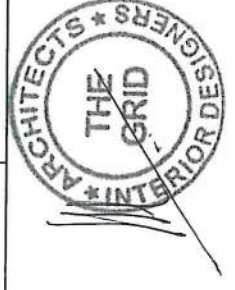
S.No	Description	Qty	Unit	DSR Rate	M. Rate	Amount NON DSR(Rs.)	COMMENTS
9.8	Providing fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183, density 24kg / m3, 50mm thick, wrapped in 200 G Virgin Polythene bags, fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5 mm x 24 gauge wire mesh, for top most ceiling of building.	188	Sq.M	597.85		112395.80	DSR 12.34
	NOTE :-						
	For False ceiling items the false ceiling design can be stepped / curved/architectural design, cove etc. However only Board surface area shall						
	be measured for the purpose of payment. Nothing extra for design or curve.						
	Existing floor to slab height on the site shall vary. Ceiling shall be hung from the existing slab through hanger's. Rate quoted in the tender						
	shall be applicable for all floor levels /all floor height (approx. 4.5 Mtr floor to floor) including scaffolding, etc complete.						
	The rate of falseceiling items also includes 6 mm ply backing for supporting light fixtures in the false ceiling.						
	The rate of False ceiling items also includes making all necessary cut outs & frame work for electrical fixtures / air conditioning work coves etc.						
10	DOORS						
	Flush Doors						
10.1	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	60	Sq.M	2818.5		0.00	DSR 9.20.2
10.2	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.						



S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
a	1.5 mm thick	60	Sq.M	890.55		0.00	DSR 9.127.1
b	1.0 mm thick	60	Sq.M	764		0.00	DSR 9.127.2
10.3	Providing and fixing wooden frames of doors, windows, ventilators including cutting, shaping, jointing, applying a coat of bituminous paint on concealed surface, wood primer on exposed surface, fixing in masonry/RCC by means of 300mm x 25mm x 6mm thick M.S. hold fasts screwed to frame @ 600mm max vertically and grouted with M-15 grade concrete in min. 350mm x 100mm x 100mm sized hole made in masonry/96mm long, 12mm dia M.S. dash fastener, painting with two coats of approved shade and make (ICI or equivalent) synthetic enamel paint over approved quality primer coat, finishing etc. all complete.						
	Wooden frames with second class teak wood	1.35	Cu.M	131724.5		0.00	DSR 9.1.1+9.14
10.4	Providing and fixing Toughend glass door shutters of 12mm thickness in opening of glazed partitions with stainless steel patch fittings of approved make (DORMA / HAFELE or equivalent) including heavy duty double action floor-spring with steel cover plate of approved make, pull handle on both sides of single door, locking arrangement of Haffale / Dorma or better quality as approved by Engineer-in-charge.						
	Door shall have 1 1/4 " dia. 2'-0" long SS brushed finish handle on both sides. Cost includes cutting and making good the floor, walls, ceiling etc. for fixing floor spring and patch fittings. All complete as per approval of the Engineer-in-charge / Architect.	22	Sq.M		12995.12	285892.69	RA
10.5	Providing and fixing concealed type hydraulic door closer having silver finish of make ENOX, Hettich, Ebco or approved equivalent, for door weight 40 kg to & 80 kg and door width from 850 mm to 1100 mm with speed adjustment with necessary accessories and screws etc all complete as per instruction of EIC.	30	No		3833.50	115005.00	RA
10.6	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete	30	No	109.6		0.00	



S.No	Description	Qty	Unit	DSR Rate	M.Rate	Amount NON DSR(Rs.)	COMMENTS
10.7	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	30	No	723.8		0.00	DSR 9.76
11	MISCELLANEOUS ITEMS						
11.1	Providing & fixing roller blind mechanism. The roller tube shall be of extruded aluminium alloy with 32mm O.D. and a wall thickness of 2.0 mm. The tube shall be grooved with Snaploc Spline Mounting Channel. The roller tube shall have a Snap Loc Spline for easy installation, removal and cleaning of the fabric without tape or glue and without having to remove the tube or brackets. Drive and bracket shall be of Derlin and Galvanized Steel and the System shall accommodate a self lubricating spring which makes the drive resistant to heat generated strains thus assuring a smooth function over along period. The drive Chain shall be of PVC with PVC Bead Chain. The beads shall be linked by a Bead Chain Connector. Bottom of the blind shall be of powder coated Aluminium tube and the tube shall be closed at ends with Side caps. Fabric shade shall be approval of approved by Architect. Make:Hunter Douglas/Vista/Livin	320	Sq.M		1449.53	463848.00	RA
11.2	Extra for providing and installation of motorised roller blinds(size approx 2.5m X 2.7m ht) instead of manual blinds, motor should be silent type with lifting power of 40 kgs (min). The motor shall be operated by switch and remote controls and shall be compatible for automation . The devices shall be provided all complete with necessary fixtures, adaptors etc for 230 volt , 60 HZ electrical supply.	8	Each		14437.50	115500.00	RA
11.3	Architrave : P/F of moulding along door/ window chaukhats complete as per details drawing/ advised. Size 1" x 0.5" (C.P Teakwood) including malamine polish with the matching shade as per directions of Engineer -in-charge.	165	R.MT		279.95	46191.75	RA
	TOTAL (INTERIOR)					6,193,187.43	
	GRAND TOTAL (INTERIOR)						

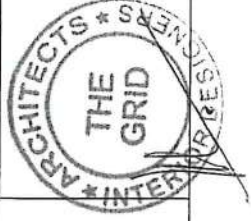


THE GRID		ARCHITECT / CONSULTANT :									
		architects and interior designers E - 326, greater kailash -II, new delhi - 110 048									
		PROJECT :- Interior & Furnishing Work of TOWER 2 -Iron Tower, Sector-32, Gurugram, Haryana									
		ELECTRICAL WORKS									
S.N	O	DSR ITEMS	DESCRIPTION OF ITEM	UNIT	QTY.	AS PER DSR-2018		AS PER MARKET RATE		Remarks	
						RATE (RS.)	AMOUNT (RS.)	RATE (RS.)	AMOUNT (RS.)		
IV			SUBHEAD- I: DISTRIBUTION BOARD								
1		DSR-2018-2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess complete with finned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)								
a)		DSR-2018-2.3.1	6 way, Double door	Nos	6.00	1,661.00	9,966.00				
c		DSR-2018-2.3.3	12 way, Double door	Nos	6.00	2,053.00	12,318.00				
2		DSR-2018-2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with finned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator)								
a)		DSR-2018-2.4.1	4 way Double door	Nos.	1.00	3,068.00	3,068.00				
b)		DSR-2018-2.4.2	6 way Double door	Nos.	5.00	3,693.00	18,465.00				
3		DSR-2018-2.5	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duty powder painted, inclusive of 200 A, finned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)								
a)		DSR-2018-2.5.1	4 way Double door	Nos.	6.00	5,651.00	33,906.00				
4			Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.								
a)		DSR-2018-2.12.1	40 amps	Nos	1.00	339.00	339.00				
b)		DSR-2018-2.12.2	63 amps	Nos	6.00	385.00	2,310.00				



[illegible]

b)	DSR-2018-1.54.3	Group - C	Point	25.00	707.00	17,675.00		
3		Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.						
a)	DSR-2018-1.7.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	4000.00	229.00	916,000.00		
b)	DSR-2018-1.7.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	2400.00	263.00	631,200.00		
c)	DSR-2018-1.7.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	30.00	356.00	10,680.00		
e)	DSR-2018-1.7.9	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	Metre	250.00	529.00	132,250.00		
d)	DSR-2018-1.7.5	2 X 10 sq. mm + 1 X 10 sq. mm earth wire	Metre	150.00	426.00	63,900.00		
e)	DSR-2018-1.7.10	4 x 10 sq.mm + 2 x 10 sq.mm. earth wire	Metre	50.00	670.00	33,500.00		
f)	DSR-2018-1.7.11	4 x 16 sq.mm + 2 x 16 sq.mm. earth wire	Metre	150.00	946.00	141,900.00		
4	DSR-2018-1.4	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required.	Each	5.00	1,290.00	6,450.00		
5	DSR-2018-1.5	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Each	44.00	265.00	11,660.00		
6	DSR-2018-1.6	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Each	10.00	392.00	3,920.00		
7	DSR-2018-1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in buildings).	Each	85.00	401.00	34,085.00		
8	DSR-2018-1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	Each	71.00	495.00	35,145.00		
9	DSR-2018-2.18	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	10.00	1,232.00	12,320.00		

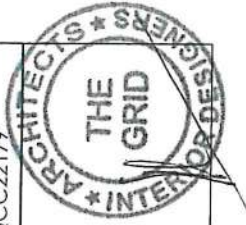


10	DSR-2018-2.18	Supplying and fixing 25 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 25 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.	Each	6.00	1,232.00	7,392.00	
11	DSR-2018-1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	10.00	32.00	320.00	
12	DSR-2018-1.24.8	Supplying and fixing following modular switch/ socket for Bell push on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	Each	12.00	126.00	1,512.00	
13	DSR-2018-1.38	Supplying and fixing of call bell / buzzer suitable for single phase, 230 volt complete as required.	Each	12.00	92.00	1,104.00	
VI		SUB-HEAD III - FANS & LIGHT FIXTURES:					
17	DSR-2018-1.24.6	Supplying and fixing M.S. box with modular type telephone (RJ-11) outlet complete as required.	Each	6.00	119.00	714.00	
18	DSR-2018-1.24.7	Supplying and fixing M.S. box with modular type coaxial outlet for TV antenna complete as required.	Each	4.00	119.00	476.00	
19	DSR-2018-1.27.1	Supplying and fixing of 1 or 2 module (75mm x 75mm) size GI boxes with modular base and cover plate for modular switches in recess etc complete as required	Each	10.00	243.00	2,430.00	
21	DSR-2018-1.19	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Metre	80.00	33.00	2,640.00	
23	i	NON Dimmable light fittings					
		Supply, Installation, Testing and Commissioning of LED Strip with driver & Power min 10 W/m, Output 1000 Lm/m (minimum), Luminary efficacy >100Lm/w, CCT -3000/4000/R/G/B. Burning Hours >=30000, CRI>80, Minimum 48 to 60 LEDs per meter & Track Mounted, BIS Approved. Complete with driver, Considering 1 no. driver per 5 m Strip). LED Strip as well as Driver Osram/Philips or equivalent. The Strip shall be duly approved by engineer incharge.	M	375		780	292500.00
							IOCL TENDER NO. RHQCC22179
	ii	Supply, installation, testing & commissioning of Surfaced/Recessed mounted adjustable 9W/12W COB LED Decorating Spot Light with output Lumen Min 900 Lm, CCT 4000K/3000K, Luminary efficacy >80lm/W, CCT 3000/4000K, CRI>80, Life Hrs (L@70)-50000 BIS approved. Complete with driver including all accessories etc. Philips or equivalent Make. The fixture shall be duly approved by engineer incharge.	EA	40		1413	

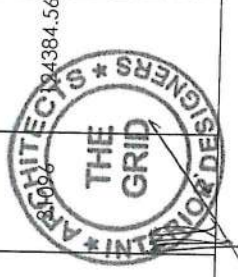


IOCL TENDER NO.
RHQCC22179

iii	Supply, installation, Testing & Commissioning of Surfaced/Recessed mounted 18W COB LED down light fittings with Output 2000 Lm (Min) , .Fixtures housing is of Pressure Die Cast Aluminium and Reflector & Diffuser is Poly carbonate. Fixtures including Driver ,all accessories complete for Loop Ceiling.Philips or equivalent Make.The fixture shall be duly approved by engineer incharge.	EA	10				2200	22000.00	
iv	Supply, Installation, Testing & Commissioning of Surfaced/ Recessed mounted 6W COB LED Spot light with Output 390 Lm (Min) ,CCT-3000/4000K, .Luminary efficacy >65Lm/w.Burning Hours>=50000,CRI>80 & BIS Approved. Complete with driver & all necessary accessories. Philips or equivalent Make.The fixture shall be duly approved by engineer incharge.	EA	15				1289	19337.40	IOCL TENDER NO. RHQCC22179
iv	Supply, Installation, Testing & Commissioning of Surfaced/Recessed mounted 18W LED down light fitting with PC housing and opal diffuser .with Output 2000 Lumen(min), Complete with driver & all necessary accessories.Philips or equivalent Make .The fixture shall be duly approved by engineer incharge.	EA	24				1600	38400.00	
v	Supply, Installation, Testing & Commissioning of decorative Surface/Suspended Hexagon shaped 25W LED Light fitting with driver , Output 3600 Lm. Fixtures contains Strip light with minimum Output Efficacy >100 Lumen/w ,CCT 4000K.Burning Hours >=50000,CRI>80 . LED Light fitting complete with PMMA diffuser and extruded aluminium housing .Each arm of hexagon is 2 ft. Complete mounting arrangements ,clamps & all necessary accessories. LED fixtures as well as & Driver Osram/Philips or equivalent.The fixture shall be duly approved by engineer incharge. . (400x346.4x67)mm	EA	5				17411	87054.90	IOCL TENDER NO. RHQCC22179
vi	Supply ,Installation ,Testing & Commissioning of 1.2M long wall glazing LED linear diffused fixture approx 60W with internal driver,Output 1900 lumen(Min), CCT- RGBW, Output efficacy >30Lm/w , Burning Hours >=35000,CRI>80, with dmx control & remote led driver, ip65,Conforming to BIS. The fixture material is Extruded aluminium Dark Grey anodized finish .Diffuser with Clear glass and shall be so designed to so as to each 100mm module can be individually controlled by dmx to create dynamic effects shown in attached image. Approx Fixture section size-15mm/20mm width, 15mm depth. Fixtures completes with Drivers,Necessary Clamps etc. Philips or equivalent Make.The fixture shall be duly approved by engineer incharge..To be used for backlighting.	EA	15				34559	518390.70	IOCL TENDER NO. RHQCC22179
vii	Supply, Installation, Testing & Commissioning of Surface/Recess/wall mounted LED wall washers 20 W, CCT 3000K/4000K,Luminary Efficacy>80Lm/watt CRI>80,Life in Hrs (L@70)-50000,tilted 70° outwards and swivels 360° to offer best illumination on the wall stone.Fixtures complete with Drivers.Philips or equivalent Make.The fixture shall be duly approved by engineer incharge.	EA	10				3214	32142.80	



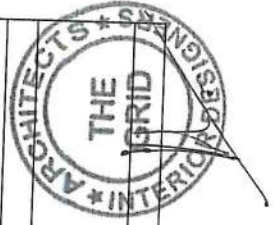
viii		Supply, Installation, Testing & Commissioning of Decorative Chandelier with Mirror stainless steel shade with Clear Crystal and ancillary to support the fixture along with clamps , size 300/400/600 mm as per instruction of EIC. Min watt: 14W LED.Lighting fixture shall be supplied with all necessary parts ,drivers ,Philips or equivalent Make.The fixture shall be duly approved by engineer incharge .	EA	1				11016	11015.95	IOCL TENDER NO. RHQCC22179
ix		Supply, Installation, Testing & Commissioning of Chandelier with three concentric circular ring shape metallic frame having diffuser along its periphery support with wire/ropes/ clamps , size 400/600/800 mm ,Watt: 3X14W LED.Lighting fixture shall be supplied with all necessary parts,driver, Philips or equivalent Make.The fixture shall be duly approved by engineer incharge.To be used for lounge/General reception area	EA	2				30456	60911.72	IOCL TENDER NO. RHQCC22179
x		Supply, installation, testing & commissioning of Surface/suspended LED Light Fixture with Round and opal diffuser contributing towards impudent identity and delivers an aesthetically appealing for minimum 36 W with power supply / Driver,Mounting Kits with all necessary accessories. approx 600 mm dia .Philips or equivalent Make .The fixture shall be duly approved by engineer incharge. To be used for VIP Lounge area/Cafeteria	EA	3				9334	28000.80	IOCL TENDER NO. RHQCC22179
xi		Supply, Installation ,Testing and Commissioning of Suspended/Hanging pendant ceiling LED light with driver, Industrial Retro Country Style, bowl shaped, with adjustable metallic rod/rope of atleast 1 ft long clamped on fixing plate and necessary clamps, 14 Watt, 230V .Lighting fixture shall be supplied with all necessary parts required to assemble .Philips or equivalent Make.Considered for cafeteria.	EA	7				2030	14212.73	IOCL TENDER NO. RHQCC22179
xii		Supply , Installation ,Testing and Commissioning of approx 39 W Decorative Pendant,Dimmable/tunable LED light with driver ,CCT 2700K to 6500K ,Output 3000 Lm minimum ,Output Lumen @ 4000K with Driver, translucent and opaque materials, all in durable polycarbonate with creative texture & with desired geometric shapes with 3D Printed, Customised IOCL LOGO/Branding shall be approved by EIC. Philips or equivalent Make.Lift Lobby .	EA	6				19272	115632.66	IOCL TENDER NO. RHQCC22179
xiii		Supply , Installation ,Testing and Commissioning of 40/45 W glass wall glazing Rectangular RGBW Flood LED light with internal Driver (minimum 36 LED) with Output 1200 lumen(Min), CCT- RGBW, Output efficacy >30lm/w , Burning Hours >=35000,CRI>80, with dimx control , ip65,Conforming to BIS, with Die-castaluminium housing,Powder-coated finish, Luminaire shall be capable of producing dynamic color changing light for with 16million colors by DMX / Ethernet based control. Luminaires shall be complete with driver.conforming to BIS.including weather proof connection cables,water proof connectors.Philips or equivalent Make.The fixture shall be duly approved by engineer incharge.	EA	4						IOCL TENDER NO. RHQCC22179



xiv		Supply installation, testing & commissioning of surface mounted LED Uplighter/ Wall Washer fixture 20w LED, RGBW color, beam angle 30 degree with anti glare visor. The fixture shall be customised designed to be installed without clamp on the surface of the wall. the light source shall be recessed inside the body of the fixture by minimum depth of 1.2 times of the aperture including DMX controller for all fixtures. The color of the fixture shall be match with color of the wall/ wall cladding, ip65. The fixture should be DMX compatible. Complete With internal power supply/Driver. Philips or equivalent Make. The fixture shall be duly approved by engineer incharge. To be used for cafeteria Column.	EA	4				16421	65683.68	IOCL TENDER NO. RHQCC22179
xv		Supply, installation, testing & commissioning of Led Neon flex light with driver, Power 5-8w/mtr, CCT-3000/4000k, beam diffused, the size of fixture not more than 15mm x 15mm, the Led driver should be remote placed in ip65 box, the fixture should be installed in suitable aluminium casing/clamps. Complete with power supply/driver box. The fixture shall be duly approved by engineer incharge. Philips or equivalent Make. To be used for Cafeteria.	M	10				5369	53688.40	IOCL TENDER NO. RHQCC22179
xvi		Supply .Installation ,Testing and Commissioning of approx 2x 8 W Bollard Light fixture with R/G/B/W Led bulb, fixture min 2ft height .Complete with power supply/driver, all accessories including providing CC (4:2:1) Base Block of size 250 mmX250mmX150mm with GI Nuts & Bolts as required and making necessary connections. Philips or Equivalent make. The fixture shall be duly approved by engineer incharge. To be used for land scape lighting.	EA	10				11709	117093.90	IOCL TENDER NO. RHQCC22179
xvii		Supply, installation, testing & commissioning of Mushroom Shaped Shrub light fixture, 8-10w Led, CCT-2700k, the lighting distribution shall be symmetric 360deg. The height should be 450mm high. the fixture should be install with 3 spikes base for softscape & base plate for hardscape areas, ip66. Complete with Power supply/driver. The fixture shall be duly approved by engineer incharge. Philips or equivalent Make. To be used for land scape lighting	EA	6				5040	30241.62	IOCL TENDER NO. RHQCC22179
xviii		Supply, installation, testing & commissioning of Spike light fixture, 10w LED, cct-3000k, beam angle-30deg., the fixture should be made of die-cast aluminium, integral power supply, approx 2 ft height, the fixture should have anti glare visor, the fixture should be install with spike base. ip65. Complete with power supply/ driver. Philips or equivalent Make. The fixture shall be duly approved by engineer incharge. To be used for land scape lighting.	EA	5				2432	12157.90	IOCL TENDER NO. RHQCC22179



xix		Supply, installation, testing & commissioning of Surface mounted Light fixture, toughened glass frosted from inside 6w LED, CCT-3000k the dimensions should be 160mmx160mmx175mm. Complete with power supply/driver. ip65. The fixture shall be duly approved by engineer incharge. To be used for land scape lighting.	EA	10				9501	95009.30	IOCL TENDER NO. RHQCC22179
xx		Supply, Installation, Testing and Commissioning of approx 7.5 W LED Mirror Light fixture with driver all necessaries accessories Philips or Equivalent make. The fixture shall be duly approved by engineer incharge	EA	8				3459	27673.04	IOCL TENDER NO. RHQCC22179
xxi		Supply/Fixing of recessed mounted LED Luminaire for System Dimension of 600 mm x 600 mm with high efficiency opal diffuser suitable for Armstrong/Grid/POP Ceiling type. Luminaire Wattage-Not more than 36W, System Efficacy >110 lm/Watts, Color Rendering Index Ra >80, . Inbuilt electronic Driver with Power Factor > 0.9, • Housing should made of CRCA with sheet thickness of 4mm & with opal acrylic PS diffuser, life class (with driver) of 50,000 (Including Driver) with minimum 70% lumen maintenance. • Total Harmonic Distortion <10% and in compliance to IEC Safety Standards. • The luminaire shall be able operate from 140 - 270V AC, 50Hz in a continuous operation mode with no change in performance parameters. Product should be suitable for continuous operation (12-14 Hrs. per day). The driver should have minimum of 2.5KV surge .CRI>80 and SDCM < 5 to ensure uniform colour and brightness i.e. light output, LM 79 and LM 80 reports to be submitted from a NABL accredited in-house lab to verify above parameters. • The driver should be compliant to • Harmonics requirement as per-IEC 61000-3/2 • Safety requirement as per IEC 61347-2-13 • CISPR 15 & IES 61547. Make: Havells/Bajaj/Wipro/Philips/Crompton The Cost includes warranty of Five Years	EA	12				2750	33000.00	IOCL TENDER NO. RHQCC22179
xxii		U shaped track for LED Strip (3m length each)	EA	130				100	13000.00	ING TENDER NO. PLDELHR000132022
xxiii		Mounting clip for LED Strip	EA	130				35	4550.00	ING TENDER NO. PLDELHR000132022
xxiv		Opal diffuser cover for LED Strip (3m length each)	EA	130				100	13000.00	ING TENDER NO. PLDELHR000132022
24		Earthing System:								
		The representative of the agency shall measure and submit the test report								
		of the earth directly to the Architect and one copy to the IRCON EIC.								



i		Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 3.5 metre long etc. with charcoal/ coke and salt as required. (depth of earthing should be 4 mtr deep)	Nos.	2.0					14500	29,000.00	
ii		S.I.T.C. Of 2nos 16 Sq.mm. FRLS PVC copper wires in 19mm rigid PVC conduit from earth pit to UPS output D.B. Making tight connection with spring & ring washers in both earth pits and both end of MCCB box in meter room	Mtr.	200.0					180	36,000.00	
iii		S.I.T.C. Of heavy gauge G.I. Pipe type earth pit as per I.S. 3043 and with above accessories (i.e. Concrete chamber with metallic cover, watering gunnel etc.) must be provided.	Nos.	2.0					9000	18,000.00	
iv		S.I.T.C. Of 1nos 4 Sq.mm. FRLS PVC copper wires in 19mm rigid PVC conduit from copper plate earth pit to UPS output D.B. Making tight connection with spring & ring washers in both earth pits and both end of MCCB box in meter room	Mtr.	200.0					70	14,000.00	
25		Cutting/Chasing of stone floor with proper diamond cutter of Following sizes for laying of floor race way as per site condition									
i		6" x 3" thk size	Mtr.	50.0					750	37,500.00	
ii		4" x 3" thk size	Mtr.	50.0					600	30,000.00	
26		S.&I. Of Metallic Boxes with Steel Surface Plates fixed with Steel Screws									
i		12" x 12" size	Nos.	25.0					1000	25,000.00	
ii		6" x 6" size	Nos.	25.0					800	20,000.00	
27		S.&I. Of U-PVC Trunking with cover plate & other accessories. Legrand/Precision Make									
i		S.I.T.C. Of 150 x 50mm DLP U-PVC trunking system with all accessories	Mtr.	50.0					650	32,500.00	
ii		S.I.T.C. Of 100 x 50mm DLP U-PVC trunking system with all accessories	Mtr.	50.0					600	30,000.00	
		TOTAL RS.						2,457,015.00		2,157,605.66	
		G. TOTAL								4,614,620.66	



THE GRID



ARCHITECT / CONSULTANT :

architects and interior designers E - 326, greater kailash -II, new delhi - 110 048

PROJECT :- Interior & Furnishing Work of TOWER 2 -Ircon Tower ,Sector-32 ,Gurugram ,Haryana
INTERIOR RENOVATION

BILL OF QUANTITY - HVAC WORK

S.No Description Of Equipments / Materials

	Qty.	Unit	Rate	Amount
A) AIR DISTRIBUTION WORK FOR AC				
1 Sheet Metal Duct:				
1.1 Supply, installation, balancing and commissioning of Factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				
a) Thickness 0.63 mm sheet (24 G)				
b) Thickness 0.80 mm sheet (22 G)	650	Sqm	1100.0	715000
	80	Sqm	1350.0	108000
1.2 Supply, installation, balancing and commissioning of Site/fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				
a) Thickness 0.63 mm sheet (24 G)	80	Sqm	1250.0	100000



b)	Thickness 0.80 mm sheet (22 G)					
			10	Sqm	1450.0	14500
2	Supplying, fixing, testing commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, in accordance with approved shop drawings and specifications complete as required.	9	Sqm	7500.0		67500
3	Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications.	1	Sqm	10000.0		10000
4	Supplying & fixing of powder coated extruded aluminium Return Air Grills without volume control dampers complete as required.	1.5	Sqm	6500.0		9750
5	Supplying, fixing, testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core	35.00	Rmt	14000.0		490000
6	Supplying, fixing, testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	35	Sqm	9000.0		315000
7	Supplying, installing and testing of extruded Aluminium Louvers with BIRA screen in accordance with approved shop drawings and specifications complete as required.	2	Sqm	7500.0		15000
8	Supply installation testing and commissioning of VAV box complete with leakage proof damper, differential pressure sensor, motorized al constructed damper, actuator, thermostat with temperature sensors, 24V power supply and controller capable to accept analogue /digital signal from thermostat.					
8.1	VAV boxes shall be suitable for following air flow capacities.					
a	1-500 CFM	4	Nos	20000.0		80000
b	550-1000 CFM	7	Nos	20500.0		143500
c	1050-1500 CFM	4	Nos	21500.0		86000
d	1550-2000 CFM	1	Nos	22500.0		22500
e	2050-2500 CFM	6	Nos	23500.0		141000

ARCHITECTS

THE GRID

INTERIOR DESIGNERS



f	2550-3000 CFM		1	Nos	24500.0	24500
g	3050-3500 CFM		2	Nos	26000.0	52000
9	Supplying, fabricating, installing and testing of fire retardant double Canvas Flexible Connection 150mm wide for constructed of Silicone Coated (Both Side) Fiberglass Cloth material as per the drawings/specifications.		10	sqm	2700.0	27000
10	Supply and fixing of Acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m ³ , with 25 mm X 25 mm GI section of 1.25 mm thick, at 600 mm centre to centre covered with Reinforced Plastic tissue paper and 0.5 mm thick perforated aluminum sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick pins, CPRX compound etc. complete as required and as per specifications.		180	Sqm	800.0	144000
11	Supplying and fixing of following thickness duly factory laminated GC faced closed cell Nitrile rubber (class "O") insulation on existing duct after applying two coats of cold setting adhesive (CPR X compound). The joints shall sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.					
a	19 mm		895	Sqm	850.0	760750
	TOTAL SECTION A (AC AIR DISTRIBUTION)					
B)	VENTILATION SYSTEM			Rs.		3326000
SH-I	VENTILATION EQUIPMENTS					
12	Inline Fans (Accoustically Insulated)					



	Supply, installation, testing and commissioning of ducted Inline Fans of GSS construction duly powder coated (rectangular box type for upto 20 mm WG SP and circular type for 10 mm WG SP) with centrifugal blower and motor encased in sheet metal casing, canvas connection etc. The Fan motor shall be suitable for operation on 220 V± 10%, 50 Hz, 1 phase AC supply. The Fan assembly shall conform to specifications and in accordance with requirements of drawings and Schedule of Quantities.							
c	Air Quantity : 200 CFM							
	Static Pressure : 20 mm wg							
	Motorrating : As Required							
		1.00	No.	10500.0	10500			
d	Air Quantity : 100 CFM							
	Static Pressure : 20 mm wg							
	Motorrating : As Required							
		4.00	No.	9500.0	38000			
13	GI Propeller Fans							
	Supplying, installing, testing and commissioning of direct driven PROPELLER FANS .No. fan shall be complete with permanent split capacitor or shaded pole motor, mounting plate with light weight type GI impellers with aerofoil contours for high efficiency & low noise & gravity louvers for weather protection as required. Fan selection arrangement and Electrical characteristics shall be as follows :							
a	Air Quantity : 225 mm Dia , 3 mm St. Pr., 900 RPM or as per OEM, fan suitable for 220± 5% volts 50 cycles, 1 phase AC Power supply as Required				1.00	No.	2250.0	2250
	TOTAL SECTION B (VENTILATION SYSTEM)							
						Rs		50750.00
	GRAND TOTAL HVAC WORK							50750.00

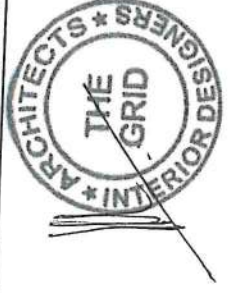


Cost Estimate for PASSIVE Networking, CCTV, WiFi, Access Control for Renovation of HRIDC Office at IRCON
TOWER Gurugram

Sl. No.	Item Description	Units	Qty.	Rate (Rs.)	Amount (Rs.)
IP PABX (IP COMMUNICATION SERVER)					
Item includes installation, commissioning and testing of system and also 3 years warranty					
1	Pure IP Gateway Architecture 132 License SIP Extensions, Ethernet LAN Port-1, Ethernet WAN Port-1, Audio In/Audio out Ports, SD Slot, USB Port, Rack Mountable. 1 PRI Gateway, 8 Port Call recording key, 4 Port FXO Gateway Expandable up to 500 SIP Extensions by adding License Key. Hybrid IP PBX with Interface cards Architecture not acceptable. 3 Year Support Pack Brands: Cisco, Mytel, Epygi, NIC	NO	1	652,500.00	652,500.00
2	SIP Phone SNOM D862 for Large 5" IPS Color display USB 2.0 High speed Connection 8 Programmable multicolor Function Keys Optimized Noise reduction No Cradle Switch in phone. Sensor based	NO	4	22,500.00	90,000.00
3	SIP Phone SNOM D717 Integrated ambient light sensor · Automatic backlight dimming · Wide screen graphical TFT display · 3 self-labeling function keys · Wideband hands-free talking (speakerphone) · Digital Signal Processor (DSP) enhanced audio quality · 2-port Gigabit Ethernet switch (RJ45) Power over Ethernet IEEE 802.3af, Class 2 · USB headset(1) ready · D7 Expansion Module(1) ready · Support for USB WLAN stick(1) · Electronic Hook Switch (EHS)(1) support for wireless headsets · Dual-angle footstand: 46° and 28° Brands: Cisco, Mytel, Snom	NO	12	10,800.00	129,600.00
4	SIP Phone SNOM D120 Entry VOIP Phone 2 SIP identities · Low power consumption (PoE) · Backlit graphical display · 360 degree call/message indicator · 4 context sensitive function keys + 5 function keys Graphical Display 132 x 64 pixels with backlight · Single position footstand 35° · Wall mountable (1) · Hands-free talking Speakerphone) · Digital Signal Processor (DSP) enhanced audio quality · 2-port 10/100 Mbps Ethernet switch (RJ45) · Power over Ethernet IEEE 802.3af, Class 1 · SHA-2 based secure provisioning Brands: Cisco, Mytel, Snom	NO	75	5,000.00	375,000.00
5	Console at Reception D785 with 18 Key 03 Module	NO	1	63,000.00	63,000.00
Total					1,310,100.00



CCTV Solution					
1	Providing and supplying and installing Network IP Camera 5MP IR Bullet Camera, 60 Meter IR Range, Audio Port 5MP Full HD WDR IR Bullet Camera - 60Mtr. • 1/2.7" 5MP PS CMOS Image Sensor (0.9407 centimeters) • Max. 20fps@5MP(2592x1944) and supports 2688 x1520 (2688 x 1520)@25/30fps • Support Starlight Function • H.265+ and H.264+ Dual-stream encoding • WDR(120dB), Day/Night (ICR), 3D-DNR, ROI, AWB, AGC, BLC, HLC • 2.7~13.5mm Motorized lens • IR Range of 60 Mtrs, IP67, IK10(optional), Micro SD Card, PoE Shutter Speed: Auto/Manual, 1/3~1/100000s Audio In/Audio Out Power Source: DC12V, PoE (802.3af) • Mobile Software: iCMOB, gCMOB • CMS Software: KVMS Pro Makes: Hanwha, Honeywell, CPPlus	NO	3	10,500.00	31,500.00
2	Providing and supplying and installing Network IP Camera 5MP IR Dome Camera, 40 Meter IR Range, Audio Port 5MP Full HD WDR IR Bullet Camera - 60Mtr. • 1/2.7" 5MP PS CMOS Image Sensor (0.9407 centimeters) • Max. 20fps@5MP(2592x1944) and supports 2688 x1520 (2688 x 1520)@25/30fps • Support Starlight Function • H.265+ and H.264+ Dual-stream encoding • WDR(120dB), Day/Night (ICR), 3D-DNR, ROI, AWB, AGC, BLC, HLC • 2.7~13.5mm Motorized lens • IR Range of 60 Mtrs, IP67, IK10(optional), Micro SD Card, PoE Shutter Speed: Auto/Manual, 1/3~1/100000s Audio In/Audio Out Power Source: DC12V, PoE (802.3af) • Mobile Software: iCMOB, gCMOB • CMS Software: KVMS Pro Makes: Hanwha, Honeywell, CPPlus	NO	13	10,200.00	132,600.00



3	Providing and supplying and installing 16 Ch. 4K Network Video Recorder Up to 16 channel IP camera input including 8 TB surveillance grade storage • Up to 12MP resolution preview and playback • Max 384Mbps incoming bandwidth • Support 8 SATA HDDs up to 10TB each, 4 USB Ports, 1 eSATA port • 2 HDMI / 1 VGA simultaneous video output • Support Multi-brand network cameras • Support RAID 0/1/5/6/10 • Supported AI Functions by Camera, Face detection and recognition, SMD Plus, Video metadata, ANPR and 3D behaviour analysis • Mobile Software: iCMOB, gCMOB • CMS Software: KVMS Pro Makes: Hanwha, Honeywell, CPPlus	NO	1	35,000.00	87,000.00
5	Providing and supplying and installing 24U Network Rack 600x600mm Network Rack, 5/15Amp PDU with MCB, 2 Fan, Cable Manager-1Nos, Hardware 20 nos. Makes: Rittal, Dynamic, President	NO	1	32,000.00	32,000.00
	Total				283,100.00

Networking Passive For IP PABX/Wifi/CCTV/LAN-Internet

	Networking items Passive/ active items includes all ferrulling, ties, labeling, steel wires fixing and testing commissioning complete.				
1	CAT6 UTP Cable Box 305 Meter	NO	50	8500.00	425000.00
2	CAT6 1G I/O	NO	375	200.00	75000.00
3	Face Plat dual	NO	300	100.00	30000.00
4	24 Port Patch Panel	NO	18	6200.00	111600.00
5	Patch Cord-1 Meter	NO	400	190.00	76000.00
6	Patch Cord-2 Meter	NO	350	250.00	87500.00
7	Patch Panel Label	NO	10	380.00	3800.00
8	Ethernet RJ45 Connector-Pack of 100 either Molex or Commscope	NO	2	1600.00	1450.00
9	17U Rack with 1 FAN 1 5/15Amp PDU, Hardware G.F/ F.F/ 5th floor	NO	3	32000.00	96000.00
10	48U Rack with 4 Fan Set, 3x5/15Amp PDU, Hardware, Earthing Kit, Front Glass Door, Lock-2nd Floor	NO	1	65000.00	65000.00
11	24U Rack with 4 Fan Set, 2x5/15Amp PDU, Hardware, Earthing Kit, Front Glass Door, Lock-3rd / 4th Floor	NO	2	35000.00	70000.00
12	6 Core MM Armoured OFC OM3 Cable	RMT	200	250.00	50000.00



13	6Core LIU loaded					
14	24 Core LIU Loaded					
15	LC-SC OFC Patch Cords					
16	Providing and fixing PVC Conduit 25mm bundles-(1Bundle 25 Pipes)					
17	Splicing and laying of OFC Cable					
18	Cable Punching at I/O per end					
	Total					
	G. TOTAL					
						3,160,850.00



THE GRID



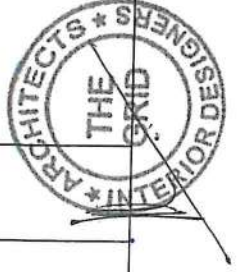
ARCHITECT / CONSULTANT :

architects and interior designers E - 326, greater kailash -II, new delhi - 110 048

PROJECT :- Interior & Furnishing Work of TOWER 2 -Icon Tower ,Sector-32 ,Gurugram ,Haryana

READY MADE FURNITURE

S.No	Description	Qty	Unit	Rate	Amount(Rs.)
	READY MADE FURNITURE ITEMS- To be procured from reputed OEM with certificates :				
	1. The supplier should be an authorised dealer of a reputed multinational company with global manufacturing footprint as well as with complete manufacturing base in India which mirrors global manufacturing standards . The dealership authorization as well as tender participation approval must duly certified by the OEM.				
	2. The OEM for Furniture must be ISO 9001, 14001, 45001 , BIS and BIFMA Complaint member				
	3. The OEM for furniture must have in house quality testing laboratory which meets BIS and BIFMA standards.				
	4. The OEM for furniture must have complete solutions of Seating, tables, workstation systems, private office, storage and collaborative solutions.				
	5. Installation must be done under direct supervision of furniture manufacturer (OEM) project team employee who will ensure on time and quality finish of all installations.				
	Rates are inclusive of all transport, fixing and fittings on site for all floors.				
1	Providing & Placing Medium Height Storage, Body of storages made out 18 mm thick Particle Board (E-1 Grade), melamine finishes with 2 mm PVC edge-banding. E1 grade laminate to be used which provide no urea formaldehyde emission and formaldehyde should be phenol base with emission of not more than (<or= 8mg/100 g oven dry board-perforated method) for better in-house quality. This should comply with (EN 120-1992). Front of Medium height Storages should be made out of 16 mm thick Particle Board (E-1 Grade) melamine finishes with 2 mm PVC edge-banding fitted with extruded aluminum handle, as per requirement. Top should be 25 mm thick Particle Board (E-1 Grade), melamine finishes with 2 mm PVC edge-banding. Storages should be provided with adjustable levelers. Door Lock should be of three-way lock mechanism, the hinged doors can be locked at once. Door should be provided with Hinge-damping mechanism to enable soft closing of doors. (Hardware to be of Hettich, Haffele, ENOX) Product should be BIFMA gold rated SCSSglobal certified for inhouse air quality and with 05 years warranty.				



S.No	Description	Qty	Unit	Rate	Amount(Rs.)
a	STORAGE:-W750/900/1200XD450XH1200MM	60	Sq.M	12500	750,000.00
b	STORAGE:-W 600/750/900/1200XD450XH750MM (MAKE: Rockworth, Herman Miller, Hyworth, Steelcase, Godrej, HNI)	35	Sq.M	12500	437,500.00
2	WORKSTATIONS				
	Providing & Placing L Shape & Rectangle workstations : Frame Work, Partition and Cable management : Frame work shall consist of main spine and return spine of aluminium extruded section of minimum thickness of 1.2 mm. The overall thickness of Panel base System should be minimum 60-70 mm. The panel will be hollow inside to accommodate wiring for electrical/data and outer frame of panel should be made of extruded aluminium. The panel shall be made up of 3 mm thick MDF both sides of the wooden frame to create the hollow for the wire management. Finishes of panel above the worktop: Above the top fabric pinup+ Glass writable marker board with raceway on main spine. The hollow panel made of MDF and 3mm thick foam which is upholstered with 0.5mm thick fabric with half fabric pinup + half glass marker board. The thickness of main spine partition panel should be minimum 60-70 mm & minimum 25-28mmmm thick for return & Aisle spine. Finishes of main spine panel below the worktop: Below the top the hollow panel should be made of MDF tile and 0.5mm thick steel sheet pasted on MDF which is powder coated with EPC finish 80-90 microns for durability on the inside as well on the outside. The panel outer aluminium frame is designed such a way that it can be easily slide in to the columns/ Connectors by means of stacking one over the other. Horizontal race way should be 150-170 mm height aluminium profile. There shall be complete cable management arrangement with openable raceway above/ below worktop with provision for fitting electrical/data switches and holes for passing cable. Connectors/ Post Description: End Post: Aluminium 60-70 mm width – 1200-1250 mm height. Two way post: Aluminium 30-80 mm width – 1200-1250 mm height. Three way post: Aluminium 30-80 mm width – 1200-1250 mm height. Four way post: Aluminium 30-80 mm width – 1200-1250 mm height. Brackets: Table top supported with 50-60mm width steel bracket. Table top to table top connector: 150-170 mm Width x 120-140 mm Depth width connector.				
	Worktop :Worktop Made of 25mm thick E-1 grade particle board finished with 2mm ABS edge banding. E1 grade laminate with zero urea formaldehyde emissions (<or= 8mg/100 g oven dry board-perforated method) for better in-house air quality. This should comply with (EN 120-1992). The exposed edge of worktop shall be secured with 2mm thick PVC edge banding tape of approved colour. The height of Worktop shall be 740-760 mm from ground level. The particle board should be E-1 Grade with pvc edge banding.				
	Drawer Unit : 3 drawer Metal pedestal of overall dimensions internal and external dimensions 380-430 mm (W) x 430-480 mm (D) x 600-620 mm (H). Drawer body should be made of CRCA of thickness 0.7-0.8 mm duly powder coated with 70-80 micron. Each pedestal should be provided with pencil tray of 40-45 mm(H) x 110-120 mm (D) x 300-310 mm (W). Each pedestal should have 5 Nos castor fitted to it where in one castor will be fitted to lower most drawer to provide extra stability. Product should be BIFMA gold rated SCsglobal certified for inhouse air quality and with 05 years warranty.				



S.No	Description	Qty	Unit	Rate	Amount(Rs.)
a	Penia Workstation of size:- 1500mm (W1) x 1350mm (W2) x 600mm (D) x 740mm(Worktop Height) x 1200-1250 mm (Height of panel from Ground) for each person.	4	Each	52000	208,000.00
b	Rect Workstation of size:- 1200mm (W) x x600mm (D) x 740mm(Worktop Height) x 1200-1250 mm (Height of panel from Ground) for each person. (MAKE: Rockworth, Herman Miller, Hyworth, Steelcase, Godrej, HNI)	47	Each	28000	1,316,000.00
3	LOW HEIGHT PARTITION				
	Frame Work, Partition and Cable management : Frame work shall consist of main spine and return spine of aluminium extruded section of minimum thickness of 1.2 mm. The overall thickness of Panel base System should be minimum 60-70 mm. The panel will be hollow inside to accommodate wiring for electrical/data and outer frame of panel should be made of extruded aluminium. The panel shall be made up of 3 mm thick MDF both sides of the wooden frame to create the hollow for the wire management. Finishes of panel above the worktop: Above the top fabric pinup+ Glass writable marker board with raceway on main spine. The hollow panel made of MDF and 3mm thick foam which is upholstered with 0.5mm thick fabric with half fabric pinup + half glass marker board. The thickness of main spine partition panel should be minimum 60-70 mm & minimum 25-28mmmm thick for return & Aisle spine. Finishes of main spine panel below the worktop: Below the top the hollow panel should be made of MDF file and 0.5mm thick steel sheet pasted on MDF which is powder coated with EPC finish 80-90 microns for durability on the inside as well on the outside. The panel outer aluminium frame is designed such a way that it can be easily slide in to the columns/ Connectors by means of stacking one over the other. Horizontal race way should be 150-170 mm height aluminium profile.	135	SqM	10750	1,451,250.00
	TOTAL MODULAR FURNITURE				4,162,750.00

