

Name of Work: Providing Operation & Maintenance Services at AIIMS Housing Complex at Kabir Nagar, Raipur

BILL OF QUANTITIES (BOQ)

Item No	Description Of Item	Quantity	Unit	Rate (Rs.) in Figures	Rate in Words	Amount (in Rs.)
A	PART A: MAINTENANCE					
1	Carrying out maintenance Works and upkeep of AIIMS Residential complex at Kabir Nagar, Raipur. The approximate area of construction is 15200 sqm in a campus spread over a total area of approx.38 acres. There are total 11 blocks consisting of 173 dwelling units consisting of Type I, II, III, IV & V quarters, Director Bungalow, Guest House etc. along with service buildings like UG Tank, Substation, Sewage Treatment Plant etc.					
	Internal and External Works					
i	Maintenance and repair of internal and external plaster, flooring, masonry work, repair of BB coba, RCC work upto an area of 2.5 sqm, Tile flooring/ repairing work upto 1.0 sqm, Khurras, CC gola, sealing of leakages from roofs, floor, traps, WC/P traps and joints of pipes and fittings, gully traps and manholes and restoration of existing finishing in the affected are to the entire satisfaction and as per direction of Engineer/Client					
ii	Carpentry work of all kinds including Maintenance, repairing and fixing of damaged doors, windows, ventilators of steel/wood/PVC/Aluminium etc. at all floors and fixing of necessary fittings wherever required to keep them in proper functional conditions works of doors/windows, providing nails on the walls, door window fitting etc.					
iii	Change of glass panes, wherever required.					
iv	Maintenance and cleaning of chajjas, roofs, expansion joints, etc. and removing cobwebs, beehives, vegetation including malba etc. to the authorized dumping ground to the entire satisfaction and as per the direction of the Engineer/Client					
v	Welding by electrical plant including transportation of electrical welding plant at site to weld broken grills, hinges, doors, windows, gates, railings and any other steel work of dwelling units, parks, boundary walls, guest house etc. complete as per direction of the Engineer/Client.					
vi	Comprehensive Maintenance, up-keeping, attending day to day complaints and rectification of all electrical installations in various type of flats and bungalows (as per list attached) including attached servant quarters, garages, sentry post, guard room etc. round the clock including Sundays and Holidays. Installations comprises of internal electrification, external electrification, distribution board, main board and all type of light fixtures like brass bracket, fluorescent fitting, CFL fittings, gate light, lawn/compound light, street light, security light etc. and electrical appliances and gadget like geysers, ceiling fan, exhaust fan, fresh air fan and etc. including repairing of these fixtures and gadget, repainting etc. as and where ever required and as per attached terms and conditions.					
vii	Comprehensive maintenance of plumbing system including Supply and replacement/Repair of non functional broken sanitary fixture or repair of the non functional part of sanitary fixtures of the entire residential complex & maintaining all the plumbing fixture & plumbing system in good functional condition including repair of leakages and making openings in walls if required and making good the same complete as per instruction of engineer incharge/client.					

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viii	Maintenance of sewerage, drainage system and desilting of gully traps etc. within the campus like opening/cleaning of choked sewer pipes, drains, manholes, gully traps, wash basins, sinks and other fittings and fixtures, etc. at all floors and vertical stacks of sewer pipes, rain water drainage pipes , rain water spout etc of all sizes to keep sewerage and drainage system functional including disposal of silt, malba, waste, garbage etc. to the authorized dumping ground complete including Regular cleaning of Drains, pipes, sewerage & Drain Line up to Municipal disposal points Gully traps, manholes to ensure that there is no blockage including maintaining minimum requisite T &P material required for cleaning / maintenance , manpower (plumber, Sewer man, sewer/Drain cleaner, Helper, & consumables such as washer, lead, M.seal, nut, dash fastener, lubricant, tools etc. Proper functioning of the plumbing system & maintaining the record for the same.					
ix	Maintenance of water supply grid and valves in the entire campus to keep the water supply system efficient and operational at all times complete to the entire satisfaction and as per direction of the Engineer/Client					
x	Changing of pipes and traps, Manholes including covers of drains/manholes, pipe trap, main hole cover required to be replaced be paid separately etc.					
xi	Maintenance and repair of plumbing system for the entire campus (internal and external works) including stopping leakages or overflows of water from PVC/RCC overhead tanks and water cisterns and replacement of the bib cock, stop cock, pillar cock, fittings, ball cocks etc. to keep the entire water supply system efficient and functional to the entire satisfaction and as per the direction of the Engineer/Client.					
xii	Cleaning of RCC/PVC water storage tanks (Overhead/Underground) by adopting six stage process, i.e., dewatering, sludge removal, high pressure cleaning, vacuum cleaning, anti-bacterial spray and ultra violet radiations i/c mentioning the date of cleaning and next due date of cleaning on each tank, Arrangement of suitable de-watering pump for drainage of pump room & lift pits as per requirement complete to satisfaction of Engineer/Client					
xiii	The scope also includes attending to the overflow/float valves of overhead water tanks, including replacement if required and operation of valves, pumps, etc.					
xiv	The rate quoted shall include the cost of manpower, T&P like a welding machine, assorted screwdrivers/pliers, ladders, drills, etc., scaffolding, consumables and disposal of unserviceable debris/melba outside the building compound at municipal dumping ground/place and nothing extra shall be paid. Cost of tiles, door,doors fittings, pipe , main hole covers, Aviation light ,wiring , Bell , Switchs, Shocket, light fixtures, condenser, traps, fan plumbing & electrical fittings and fixtures, glass panes, MCB/ MDB, Fan/regulators, tube lights/bulbs, conduits, switches, condenser, bell, modular, plastic wiring light fixtures etc. shall be payable separately on actual					
xv	The quoted cost will include manpower for day-to-day maintenance and all other items/works mentioned in additional specifications of contract document.					
xvi	The agency/bidder shall visit the AIIMS Residential complex at Kabir Nagar, Raipur.The agency has to take over the building as on basis any initial repair/replacement of materials if any required will be attended and no extra payment shall be made for the same. The cost of the same will be included in the the quoted rate. The agency has to take his own assessment and make themselves familiar with the existing setup/system provided before bidding.					

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A	Maintenance Cost. Minimum Manpower to be provided 1 Mason with 1 Helper, 1 Carpenter with 1 Helper, 1 Plumber with 1 Helper, 2 Electricians, 1 Supervisor with 1 Computer Operator in General Shift to attend above work. To attend the complains/work as per above scope of work agency has to engage additional man power without any additional payment on need basis to meet out the response time.	12 jobs	per job per month			0
PART B : HORTICULTURE MAINTENANCE						
1	Scope of work for horticulture operation includes plantation & maintenance of any type of existing grass, shrubs, trees. (cost of pots, rose plants, grass/shrubs/trees, uprooting of grass etc from open ground area more then 50sqm is payable separately) and their maintenance by deploying adequate no. of experienced Malis and one head Mali for eight working hours daily and supplying all materials in sufficient quantity required to properly maintain the horticulture like fertilizers, manure, granules, vermi-compost, bone meal, neem cake, NH3/SO4/Urea, DAP, pesticides, good earth, seasonal flower seeds, plants, grass, flower pots, all tools & plants required for the above work, shrubs, trees etc. all complete.	12 jobs	per job per month			0
a	Minimum 8 malis to be provided.					
PART C : SWEEPING AND CLEANING SERVICES						
1	Daily (excluding Sunday's) Sweeping, Cleaning & Dusting of common areas of all residential blocks i.e. staircases (Main & Fire), corridor etc., all roads, parking, pavements, green areas, security rooms, electrical room, machine room, substation, STP plant, terrace, Lifts pits/looby/car including dewatering pump etc and other locations in public areas. The agency shall be completely responsible for cleanliness of the housing complex.					
	All fans of the residential complex to be cleaned at least once in six months.					
	Collection of garbage from the bins, located on each block in the Housing Complex and its segregation into organic and inorganic waste.					
	Dumping of the organic / Inorganic waste into the compost pit/ nearest municipal dumping place. and periodic maintaining the compost pit.					
	All the housekeeping staff shall wear uniforms as approved by the client and have a neat and clean look and shall wear rubberised gloves, boots and overalls..					
	Minimum manpower as detailed to be provided for house keeping works, dusting, cleaning works etc including all consumables such as dusters, brooms, mops, cleaning soap/detergents and disinfectants, buckets, bins, covered handcarts etc. or any other material required for Cleaning/housekeeping to be supplied by the agency for which nothing extra shall be paid. The work shall be carried out to the entire satisfaction of Client/Engineer-in-charge.	12 jobs	per job per month			0
	Minimum 7 Sweepers in General Shift to be provided along with one Sanitary Supervisor					

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D	PART D: OPERATION					
1	Operation charges for following system through deployment of qualified manpower as per suggested minimum manpower chart. The charges will be all inclusive. Contractor has to follow all maintenance requirement as per tender conditions					
	Operation charges for one year					
a-1	Round the clock operation of electrical sub-station & DG set through minimum defined manpower in SCC					
a-2	Operation of lift only in two shift and one lift in each block will be operated by operator at a time no operator will be required to provide for second lift in the same block at the same time through minimum defined manpower in SCC, AMC agency will attend the major repair and replacement of material however the lift operating staff shall have the basic technical knowledge to attend the minor fault in consultation of AMC agency					
a-3	Operation of existing manual fire alarm system in A & B shift through minimum defined manpower in SCC	12	Months			0
b	Providing Operator cum Mechanic (one number only) in night shift to attend emergency in the entire AIIMS residential campus, including uninterrupted mobile availability (Optional Item)	12	Months			0
2	Under Ground Tank, Pumps Rooms, Tubewells, etc.					
	Daily operation of Pumps, Tubewells, etc. with requisite manpower for requirement of the same as per instruction of engineer-in-charge & all small consumables part, etc required for proper functioning of the system & maintaining the record for the same, complete in all respect.					
	Operation of Underground Tank Pumps, Tubewells, etc					
	Minimum One Operator to be provided in Morning and Evening Shift	12	Month			0
3	Sewage Treatment Plant					
	Daily operation of existing STP, pumps, maintaining plumbing systems and agency will maintain minimum requisite manpower & small material such as washer, lead, M.seal, nut, dash fastener, lubricant, tools etc will be included in the cost & allied systems with requisite manpower for requirement of the same as per instruction of engineer-in-charge & all small consumables part, etc required for proper functioning of the system & maintaining the record for the same, complete in all respect.					
	Operation of Sewage Treatment Plant etc					
	Minimum One Operator to be provided in Morning, Evening Shift and Night Shift & one sweeper/helper in day shift.	12	Month			0
4	Fire Fighting Systems					
	Operation of existing Fire Fighting System with requisite manpower for requirement of the same as per instruction of engineer-in-charge & all small consumables part, etc required for proper functioning of the system & maintaining the record for the same, complete in all respect as per defined in various clauses of the tender document					
	1st year	12	Months			0
E	PART E: AMC					
2	Annual comprehensive maintenance charges for the following items installed at site. The CAMC will be done by OEM or his authorised service provider. The bidder is required to quote the annual cost of the CAMC inclusive of his professional charges for arranging the same. The detailed break-up of CAMC charges for each equipment / system to be enclosed separately					

Item No	Description Of Item	Quantity	Unit	Rate (Rs.) in Figures	Rate in Words	Amount (in Rs.)
2.1	DG Set Charges for annual maintenance					
	Annual Maintenance including all labour for 200 KVA DG set (Make: Kirloskar) including AMF panel, day tank and associated pumps pipe lines etc, power & control cable, acoustics enclosure, heat exchanger etc complete including 'B' checks as per the manufacturer's recommendations/ requirements.	2	Lot			0
2	AMC Items for Residential buildings at AIIMS, Raipur					
	AMC of existing Tube wells, taking out & fixing of motor for service/ repair , maintaining the record of the same, any part of tube well System including starter Panel, all motors & switchgear of pumps, all parts and consumables etc complete as required for proper functioning of the system					
	Domestic water transfer pump-900 LPM & 60 M head (4 nos.)					
	Submersible drainage pump-150LPM & 10M head (2 nos.)					
	1st year	1 job	Per job			0
3	Sewage treatment Plant					
	AMC of existing Sewage treatment Plant including all equipments, components and spares of Sewage treatment Plant, replacement of consumables and other necessary materials, quarterly testing charges for raw and treated effluent as per requirement of Pollution Control norms, electrical and mechanical parts & material and Labour complete including cost for obtaining test report of treated & raw sewer from government lab on quarterly basis					
	1st year	1 job	Per job			0
4	AMC-Fire Fighting System					
	Wet risers, Yard hydrant (9 nos. approx.),UGT& Terrace tanks, Landing valve(70 nos. approx. of approved make),Existing Fire extinguishers recharging , Fire extinguisher of carbon dioxide/Water type gas/ABC type/dry chemical powder, CO2(86 nos.), Water type (86 nos.), Dry chemical powder (13 nos.), ABC type(13nos), Fire Pump- Centrifugal pump of 900LPM and 35 M head (9nos)					
	Fire Panel including all associated switchgear, all motors & switchgear of pumps, diesel engine all parts and consumables etc complete as required for proper functioning of the system. Glowing exit sign board of fire system					
	Arranging/assisting the fire operations once in three months (at-least) and making the record of the same and getting approval from engineer i-in-charge /client AMC including cost of augmentation/making system healthy functional of existing system if any required at the start of the work within one month however the cost of un repairable parts /missing part shall be paid separately.					
	AMC for existing complete fire fighting system					
	1st year	1 job	Per job			0

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	PART F: AMC					
1	Annual comprehensive maintenance charges for the following items installed at site. The CAMC will be done by OEM or his authorised service provider. The bidder is required to quote the annual cost of the CAMC inclusive of his professional charges for arranging the same. The detailed break-up of CAMC charges for each equipment / system to be enclosed separately					
	Charges for the first year of CAMC (Optinal Item)					
1.1	Lifts					
	Comprehensive Annual Maintenance including all material and labour for 8 passenger lifts having speed of 0.66 to 1.0 MPS, with having car doors single panel single slide which slide horizontally collapsible doors, landing doors a swinging type MS powder quoted doors, VVVF, etc.(Make: Johnson lifts) complete as installed and having following stopes and landings:					
1.1.1	8 stops and 8 landings	4	Nos			0
1.1.2	6 stops and 6 landings	6	Nos			0
F	PART: F					
1	ONE-TIME REPAIR					
1.1	These charges shall include one-time repair charges of all the items given below complete so as to bring those to the proper working condition including water proofing treatment to stop seepage the replacement of all damaged/stolen parts, painting, oiling, greasing, replacing washers, gasket, mechanical seal, rewinding motors, battery, filter cartridge, membranes, un-functional valves/pipe portion, supporting structure, missing parts, laying of new 150 m(appx.) length upvc pipe (6 Kg) lineof 150mm dia for disposal of excess treated effluent to near by existing drain, covers (complete or part as per the condition or instruction of engineer-in-charge).					
1.1.1	STP (500 KLD approx.)-MBBR based, pumps, blowers, piping, valves , panel, filter press, media etc (repair of all un-functional part of all STP equipments & cleaning of tanks)	1 job	Per job			0
1.2	Substation					
1.2.1	Providing one time repair of the following systems installed at site. Repair shall be done by OEM or his authorised service provider. The Cost will be all inclusive.					
	One time repair cost including Overhauling of 33KV Circuit breaker (H.T Panel 33KV/415V with one incomer two outgoing) comprising of following i/c replacement of all damaged/stolen parts, painting, oiling, greasing testing commissioning etc as required to bring HT panel in functional condition in all respect entire satisfaction of engineer In charge .					
a	Checking healthiness of mechanism and factory settings					
b	Oiling and greasing of mechanism					
c	Checking of control circuit					
d	Checking of healthiness of vacuum interrupters					
e	Relay settings					
f	Cleaning of dust from trolley chamber.	1 job	per job			0
1.2.2	One Time Repair cost including servicing Of 1MVA 33/0.433 KV oil immersed outdoor type transformer comprising of following i/c testing, replacement of all damaged/stolen parts repairing / commissioning etc as required to make functional in all respect and entire satisfaction of engineer In charge					
a	Oil filtration upto 70 KV BDV (Approx 2140 ltr) and topping up if required.					

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b	Rectification and stopping of oil leakage i/c replacement of gasket set if required					
c	Servicing and checking of on load tap changer.					
d	Low voltage testing i/c magnetic balance, voltage ratio, no load current, winding resistance etc complete.					
e	Low voltage testing i/c magnetic balance, voltage ratio, no load current, winding resistance etc complete					
f	Replacement of defective batteries 65AH 12V for inverter i/c connection etc.(Exide make, Model FCPOEXCP80D26R)					
g	Repairing and servicing of inverter i/c replacement of transformer for 110v 10 amp DC battery charger and other defective parts i/c testing commissioning etc as required.	1	job			0
1.3	AMF Panel					
1.3.1	One Time Repair cost including Repairing of AMF panel for 200 KVA DG Set including repair/ replacement of defective , missing, stolen parts etc as required to make AMF panel functional in all respect and entire satisfaction of engineer In charge					
a	Battery Charger 10 Amp 24 Volt.					
b	Inter connecting Aluminium bus bar.					
c	Delay timer relay.					
d	Internal wiring.	1	job			0
1.4	L.T Panel					
a	One Time Repair cost including Servicing and over hauling of 1250 amp ACB installed in LT panel including resetting and testing of under voltage relay, closing coil, opening coil etc as required.					
b	Replacement of 12 volt DC electric charging motor for 400 A MCCB in existing PCC panel complete in all respect					
c	Replacement of damaged , missing , stolen etc parts of LT panel, MV panel in all respect and entire satisfaction of engineer In charge like U/V volt release for DN3 MCCB 240 Volt AC, Shunt release for DN3 MCCB 240 volt AC, Pneumatic timer (BCH make) 240 volt coil, AMP meter selector switch, Indicating lamp(R,Y,B) etc as required					
d	Servicing and over hauling of LT panel complete with necessary testing etc to make LT panel functional as required and entire satisfaction of engineer In charge.	1	job			0
G	PART G : MANPOWER					
II	Supply of additional manpower for any addition scope of work/event/function which is not covered above as required by the Client. With complete Tools, tackles etc.					
A	Electrician	20	Manday			0
B	Plumber	20	Manday			0
C	Helper/ Sweeper	20	Manday			0
D	Mason	20	Manday			0
E	Carpenter	20	Manday			0

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H	PART H:					
	MISCELLANEOUS ITEMS					
	(The following items may be executed at the discretion of the Client/Engineer and their quantity may vary to any extent)					
1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed :					
i	All kinds of soil	100	Sqm			0
2	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead :	10	Sqm			0
2.1	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground within 50 metres lead.	10	Sqm			0
3	Water proofing					
I	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with waterproofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	10	Sqm			0
ii	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment's) Laying brick bats with mortar using broken bricks/brick bats 25mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement : 4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :					

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A	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	10	Sqm			0
iii	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
A	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	10	cum			0
4	Tile Work					
i	Providing and laying 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	10	Sqm			0
ii	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	10	Sqm			0
iii	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.					
a)	Size of Tile 600x600 mm	10	Sqm			0
iv	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :					
a)	25 mm thick	10	Sqm			0
v	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).					
a)	Medium shade pigment using 50% white cement 50% Grey cement	10	Sqm			0
5	Anti Termite Treatment					
1.0	Supplying chemical emulsion in sealed containers including delivery as specified					
i	Chlorpyrifos / Lindane emulsifiable concentrate of 20%	100	Litre			0
2.0	Diluting and injecting chemical emulsion for Post Constructional anti termite treatment (excluding the cost of chemical emulsion)					
a)	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litre linear metre including drilling and plugging holes etc.	500	Sqm			0

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6	Painting and Finishing					
1.0	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade					
a)	one or more coats on old work	100	sqm			0
2.0	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade					
a)	old work (one or more coats)	11000	sqm			0
3.0	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade					
a)	one or more coats on old work	1000	sqm			0
4.0	Finishing walls with premium acrylic smooth exterior paint with silicone additives of required shade:					
a)	Old work (one or more coats applied @ 0.83 ltr/10 sqm)	5000	sqm			0
7	Door & Window					
1.0	Providing and Fixing glazing in aluminium door, window, ventilator shutters and partitions, curtain walls etc. with neoprene gasket etc. complete as per the architectural drawings and as directed					
a)	With glass panes of 5.50 mm thickness (weight not less than 13.75 kg/sqm)	50	sqm			0
2.0	Providing and Fixing aluminium handles colour anodized (anodic coating not less than grade AC10 as per IS:1868) to required colour or shade with necessary screws etc. Complete					
a)	125mm	20	each			0
3.0	Providing and Fixing aluminium tower bolt powder coated (powder coating not less than 50 micron) to required colour or shade with necessary screws etc.					
a)	150 x 10mm	20	each			0
b)	250 x 10 mm	10	each			0
4.0	Providing and Fixing aluminium sliding door bolts powder coated (powder coating not less than 50 micron) to required colour or shade with necessary nuts, screws etc.					
a)	250 x 16mm	15	each			0
5.0	Providing and Fixing aluminium pull bolt lock powder coated (powder coating not less than 50 micron) to required colour or shade with necessary nuts, screws etc.					
		15	each			0
6.0	Providing and Fixing Aluminium hanging floor door sotpper ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent and dyed to required colour and shade with necessary screws etc. Complete					
a)	Twin rubber stopper	20	each			0
7.0	Providing and Fixing 35 x 12mm wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. Complete					
a)	Approved quality 1st class wood	1	Metre			0
8	Plumbing Work					

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1.0	Providing and Fixing white vitreous china pedestal type water closet (European Type) with seat and lid, with CP Brass hinges and rubber buffers, 10 litre low level flushing cistern with fittings & CI/MS brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required.					
a)	WC pan with black solid plastic seat and lid with white vitreous china flushing cistern and CP flush bend.	2	each			0
2.0	Providing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :					
a)	White Vitreous china Orissa pattern W.C. pan of size580x440 mm with integral type foot rests	2	each			0
3.0	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL- PE) Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80 OC, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge.(For replacing the fittings one metre pipe quantity will be pay in lue of that.)					
a)	1216 (16 mm OD) pipe	5	metre			0
b)	1620 (20 mm OD) pipe	5	metre			0
c)	2025 (25 mm OD) pipe	5	metre			0
d)	2532 (32 mm OD) pipe	5	metre			0
4.0	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.(For replacing the fittings one metre pipe quantity will be pay in lue of that.)					
a)	15 mm nominal outer dia Pipes	5	metre			0
b)	20 mm nominal outer dia Pipes	5	metre			0
c)	25 mm nominal outer dia Pipes	5	metre			0
d)	32 mm nominal outer dia Pipes	5	metre			0
e)	40 mm nominal outer dia Pipe	5	metre			0
f)	50 mm nominal outer dia Pipes	5	metre			0
5.0	Providing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000	per litre			0
6.0	Providing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.					
a)	20 mm nominal bore, 120 mm long, weighing not less than 198 gms	10	each			0
b)	40 mm nominal bore, 206 mm long, weighing not less than 690 gms	10	each			0

Item No	Description Of Item	Quantity	Unit	Rate (Rs.) in Figures	Rate in Words	Amount (in Rs.)
7.0	Providing pre-cast R.C.C. manhole cover and frame of required shape and approved quality					
a)	Square shape 450 mm internal dimension MD-10	5	each			0
b)	Circular shape 560 mm internal diameter HD-20	5	each			0
8.0	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement:4 coarse sand), in side cement plaster 12 mm thick with cementmortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarsesand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarsesand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design					
	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall not be paid for separately) :					
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1	each			0
9.0	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete					
a)	150 mm dia. R.C.C. pipe	10	metre			0
10.0	Providing and Fixing white vitreous china wash basin with CI/MS brackets, 15mm CP brass pillar taps, 32mm CP brass waste of standard pattern including painting of fittings and brackets, cutting and making good the walls wherever required					
a)	Flat back washbasin size 550x400mm with single 15mm CP brass pillar tap.	5	each			0
11.0	Providing and Fixing bottle trap for wash basins and sinks					
a)	32mm dia	5	each			0
12.0	Providing and Fixing towel rail complete with brackets fixed to wooden cleats with CP Brass screws					
a)	CP brass towel rail with two CP brass brackets 600x20mm size	5	each			0
13.0	Providing / supplying un-plasticised PVC connection pipe with brass unions, 45cm length					
a)	15mm dia nominal bore	5	each			0
14.0	Providing/fixing CP brass Dish of approved quality and brackets complete with wooden cleats and CP Brass screws,	10	each			0
15.0	Providing and Fixing CP Brass adjustable shower with 15 or 20mm inlet all complete	5	each			0
16.0	Providing and Fixing stainless steel kitchen sink as per IS 13983 with CI Brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required					
a)	Kitchen sink with drain board 510x1040 mm bowl depth 175mm	3	each			0

Item No	Description Of Item	Quantity	Unit	Rate (Rs.) in Figures	Rate in Words	Amount (in Rs.)
17.0	Providing and Fixing Stainless steel jali (Grating) with or without hole for waste pipe for floor /nahani trap					
a)	100mm dia weight not less than 100 gms	20	each			0
18.0	Providing and Fixing brass gate valve with CI sheet of approved quality					
a)	32mm dia nominal bore	4	each			0
b)	65mm dia nominal bore	1	each			0
19.0	Providing and Fixing CP Brass long body bib cock of approved quality conforming to IS Standards and weighing not less than 690gms					
a)	15mm dia nominal bore	15	each			0
20.0	Providing and Fixing CP brass bib cock of approved quality					
a)	15mm dia nominal bore	5	each			0
21.0	Providing and Fixing CP Brass angle valve for basing mixer and geyser points of approved quality conforming to IS8931					
a)	15mm dia nominal bore	10	each			0
22.0	Steel work in built up sections/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required					
a)	in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	100	Kg			0
23.0	Filling the gap in between the aluminium frame and adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-Charge complete					
a)	Upto 5mm depth and 5mm width	200	Metre			0
24.0	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.					
		5000	sqm			0
25.0	Supply and Grassing with "Calcutta Doob"/ Carpet grass in rows of 7.5 cms apart in either direction including fine dressing the ground to be levelled, supply and filling with good earth as required, watering of the lawn and its maintenance for a period of one year.					
		100	sqm			0
26.0	Providing, supplying, transplanting sapilings of various varieties in good/live condition with roots covered in good soil with polythene bags at various locations in the campus etc. complete as directed by the Client/Engineer and their maintenance for a period of one year.					
a)	Shrubs/ Flower plant like rose, aglonima, cycis palm, fycus panda, golden duranta, or equivalent	500	Each			0
b)	Trees like Royal Palm, Date Palm, Amaltas, Ashoka or equivalent with average height 3 metres.	50	Each			0
27.0	Supplying 63 mm dia RRL Fire Hose as per IS: 636/ 1988, Type "A" with extra coated, Duly ISI mark 15 m Length					
		5	Each			0

Item No	Description Of Item	Quantity	Unit	Rate (Rs.) in Figures	Rate in Words	Amount (in Rs.)
28.0	Supplying 20 mm dia 30 m Long thermo plastic Hose pipe for first Air Hose Reel suitable for Type II, W.P 10 kg/cm ² (As per IS: 12585) complete ABS plastic Nozzle etc as required.	5	Each			0
29.0	Supplying SS 63 mm dia Fire Hose delivery coupling ISI marked as per IS: 903 complete with binding etc as required.	5	Each			0
30.0	63 MM DIA Gun metal Branch pipe with 20 mm nozzle confirming to IS: 903 duly ISI marked	5	Each			0
	ELECTRICAL (Special Repairs)					
1.0	Supplying of following size of FRLS PVC insulated copper conductor, single /flexible core cable.					
a)	1.5 Sq. Mm	50	Metres			0
b)	2.5 Sq. Mm	50	Metres			0
c)	4.0 Sq. Mm	20	Metres			0
d)	6.0 Sq. Mm	20	Metres			0
e)	10.0 Sq. Mm	20	Metres			0
f)	16.0 Sq. Mm	20	Metres			0
2.0	Supply of telephone wiring of un armoured 2 pair 0.5 mm dia copper PVC conductor wiring of following sizes in the existing conduit. The replaced wire will be FR cable of reputed make.					
a)	2 pair	10	Metre			0
3.0	Supplying of following sizes of steel conduit along with accessories.					
a)	20 mm	10	Metres			0
b)	25 mm	10	Metres			0
c)	32 mm	10	Metres			0
4.0	Supplying of following sizes of PVC conduit along with accessories.					
a)	20 mm	10	Metres			0
b)	25 mm	10	Metres			0
c)	32 mm	10	Metres			0
5.0	Supplying metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in the front including painting etc. as reqd.					
a)	180 mm x 100 mm x 60 mm deep	10	Nos.			0
6.0	Supplying 3mm thick phenolic laminated sheet cover in the existing metal switch board along with screws, washer i/c dismantling the existing sheet etc. as required.	2	Sq mtrs.			0
7.0	Supplying of following modular switch, socket & accessories on the existing modular plate and switch box including connections but excluding modular plate etc. as reqd.					
a)	5/6 amps switch	20	Nos.			0
b)	2 way 5/6 amps switch	5	Nos.			0
c)	15/16 amps switch	5	Nos.			0
d)	3 pin 5/6 amp socket outlet	5	Nos.			0
e)	6 pin 15/16 amp socket outlet	5	Nos.			0
f)	20 amp switch/ SP MCB	5	Nos.			0

Item No	Description Of Item	Quantity	Unit	Rate (Rs.) in Figures	Rate in Words	Amount (in Rs.)
g)	20 amp socket	5	Nos.			0
h)	Telephone socket outlet (RJ-11)	10	Nos.			0
i)	Stepped type electronic fan regulator	10	Nos.			0
j)	Blanking plate (modular)	50	Nos.			0
k)	Bell push	10	Nos.			0
l)	TV Antenna Socket Outlet	10	Nos.			0
m)	RJ-45 Socket Outlet	10	Nos.			0
8.0	Supplying call bell/buzzer suitable for D.C/A.C.single phase,230 volts, complete as reqd.	5	Nos.			0
9.0	Rewinding of 1200 mm ceiling fan including removing and further installation. Rewinding will carry 6 months guarantee	5	Nos.			0
a)	Change of bearing of 1200 mm ceiling fan including removing and further installation	5	Nos.			0
b)	Replacement of capacitor for 1200 mm ceiling fan	5	Nos.			0
10.0	Rewinding of 900 mm ceiling fan including removing and further installation. Rewinding will carry 6 months guarantee.	5	Nos			0
a)	Change of bearing of 900 mm ceiling fan including removing and further installation	5	Nos			0
b)	Replacement of capacitor for 900 mm ceiling fan	5	Nos			0
11.0	Rewinding of 225 mm exhaust fan including removing and further installation Rewinding will carry 6 month guarantee	3	Nos			0
a)	Change of bearing of 225 mm exhaust fan including removing and further installation	2	Nos			0
b)	Replacement of louver of 225 mm exhaust fan	2	Nos			0
c)	Change of capacitor for exhaust fan	2	Nos			0
12.0	Painting of ceiling fan in installed position with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, i/c cleaning of surface with detergent etc. as reqd.	20	Nos			0
13.0	Supplying following rating / series 240 volts miniature circuit breaker suitable for lighting and other loads / inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as reqd.					
a)	6 to 32 amp Single Pole 'C' Series	20	Nos.			0
b)	25 Amps Double pole C- series.	2	Nos			0
c)	32 Amps Double pole C- series.	2	Nos			0
d)	32 Amps Double pole C- series (Modular)	2	Nos.			0
e)	40 Amps Double pole C- series.	2	Nos			0
f)	25 A Four Pole C- series.	2	Nos.			0
g)	32 A Four Pole C- series.	2	Nos.			0
h)	40 A Four Pole C- series.	2	Nos.			0
i)	63 A Four Pole C- series.	2	Nos.			0
14.0	Supply following ELCB/ RCCB in the existing MCB DB of 30/ 100 mA rating					
a)	25 A DP	2	Nos.			0
b)	32 A DP	2	Nos.			0
c)	40 A DP	2	Nos.			0
d)	25 A Four Pole	2	Nos.			0
e)	32 A Four Pole	2	Nos.			0
f)	40 A Four Pole	2	Nos.			0

Item No	Description Of Item	Quantity	Unit	Rate (Rs.) in Figures	Rate in Words	Amount (in Rs.)
g)	63 A Four Pole	2	Nos.			0
15.0	Supply of following thermal magnetic MCCB / components in the existing panels. The MCCB/components will be of same make as installed or approved equivalent. 25 ka /35 ka /50 ka rating					
a)	FP MCCB 63 Amp .	1	Nos.			0
b)	FP MCCB 100 Amp	1	Nos.			0
c)	FP MCCB 125 Amp	1	Nos.			0
d)	FP MCCB 160 Amp	1	Nos.			0
e)	FP MCCB 200 Amp	1	Nos.			0
f)	FP MCCB 250 Amp	1	Nos.			0
g)	FP MCCB 320 Amp	1	Nos.			0
h)	FP MCCB 400 Amp	1	Nos.			0
i)	FP MCCB 500 Amp	1	Nos.			0
j)	FP MCCB 630 Amp	1	Nos.			0
16.0	Supply of following components in existing electrical panels/ air circuit breakers/ starters/APFC etc. The components will be of same make and model as installed or approved equivalent.					
a)	Fixed contacts 630- 1600 Amp ACB	1	Set			0
b)	Moving contacts 630- 1600 Amp ACB	1	Set			0
c)	Arc Chutes 630- 1600 Amp ACB	1	Nos			0
d)	Different type of coils each used in ACB like closing, tripping etc	1	Nos			0
e)	Rack-in rack-out handle for ACB	1	Nos			0
f)	Spare contact kit for 32 amp TP contactor similar to existing kit.	1	Nos			0
g)	Spare contact kit for 60 amp TP contactor similar to existing kit.	1	Nos			0
h)	Spare contact kit for 100 amp TP contactor similar to existing kit.	1	Nos			0
i)	Auto/ Manual selector switch	1	Nos			0
j)	10 KVAR capacitor bank, Extra heavy duty	1	Nos			0
k)	25 KVAR capacitor bank, Extra heavy duty	1	Nos			0
l)	50 KVAR capacitor bank, Extra heavy duty	1	Nos			0
m)	Off delay timer similar to existing timer	1	Nos			0
17.0	Supply of light fixtures. The makes and model should be same as installed or approved equivalent.					
a)	18 watt tube light	5	Nos			0
b)	36 watt fluorescent light lamp (tube)	20	Nos			0
c)	28 watt tube light TL-5	20	Nos			0
d)	Starter for fluorescent fixture	20	Nos			0
e)	Electronic ballast for fluorescent fixture	20	Nos			0
f)	Copper bound ballast for fluorescent fixture	20	Nos			0
g)	Copper bound ballast for CFL	15	Nos			0
h)	9 watt CFL	20	Nos			0
i)	11 watt CFL	20	Nos			0
j)	13 watt CFL	8	Nos			0
k)	18 watt CFL	20	Nos			0
l)	36 watt CFL	5	Nos			0
m)	50 watt halogen lamp	10	Nos			0
n)	150 watt HPSV lamp	8	Nos			0
o)	Ignitor for 150 watt HPSV Lamp	10	Nos			0
p)	Complete gear box for 150 watt HPSV Lamp	2	Nos			0
q)	Housing for post top light fixture Philips HPS 360, Sonara or equivalent	5	Nos			0
r)	12 volt transformer for halozen lamp	5	Nos			0
s)	70 watt lamp	2	Nos			0
18.0	Fluorescent light fixture					

Item No	Description Of Item	Quantity	Unit	Rate (Rs.) in Figures	Rate in Words	Amount (in Rs.)
a)	1 x 28 watt box type Flourescent light fixture with reflector (Philips TMS 122M 1XTL5 28W EBT)(136b/136bw) or equivalent	2	Each			0
19.0	COMPACT FLUORESCENT LIGHT FIXTURES					
a)	1x9 w Bulk Head light fixture (Philips FXC 101 1XPL - S/2P 9W AC)(BH) or equivalent	2	Each			0
b)	Pl-2x13 W mirror light fixture (Decon 05UB PL-C 13W) or equivalent	2	Each			0
c)	1 X 18 W New drum light flat (Decon PL- 18 W 03UA) or equivalent	2	Each			0
d)	Surface mounted Batten holder (Plastic) with 13 watt CFL	5	Each			0
20.0	STANDARD CEILING FANS / Exhaust Fans					
a)	High Speed Plus 5 star (1200 mm)	1	Each			0
b)	Mettalic Exhaust fan Trans Air 9" (225 MM)	1	Each			0
21.0	Painting of street light pole with silver grey or as approved by site incharge. Including paint and labour.	10	Nos.			0
22.0	Supply of heat shrinkable straight through joints of the following LT cables of 1.1 Kv					
a)	3.5 C x 25 Sq mm	2	Set			0
b)	3.5 C x 50 Sq mm	2	Set			0
c)	3.5 C x 70 Sq mm	2	Set			0
d)	3.5 C x 95 Sq mm	2	Set			0
e)	3.5 C x 120 Sq mm	2	Set			0
f)	3.5 C x 185 Sq mm	2	Set			0
g)	3.5 C x 300 Sq mm	2	Set			0
h)	4 C x 16 Sq mm	2	Set			0
23.0	Supply of 11 kV grade hand gloves	2	Nos.			0
24.0	Supply of 440 V grade hand gloves	2	Nos.			0
25.0	Supply of First aid box as per Indian Red Cross Society details.	1	Nos.			0
26.0	Replacement of existing 12 V battery for starting of DG set with new against buy back of the old battery	1	Nos.			0
	GRAND TOTAL(In figures)					0.00
	NOTE: 1) The quoted rate will be inclusive of all Taxes (Including Service tax) 2) The lift AMC is optional item 3) The scope of work (Item) may be reduced/deducted at any stage					