

<b>BOQ</b>					
<b>NAME OF THE WORK:-</b> Renovation work of CGHS Building at RHTC Hostel complex near Palam flyover at Dwarka, New De					
l: Misc. Civil & Electrical repair works					
<b>Item No</b>	<b>Description Of Item</b>	<b>Total Qty</b>	<b>Unit</b>	<b>Rate in figures (Rs.)</b>	<b>Rate in words (Rs.)</b>
<b>1.0</b>	<b>Antitermite treatment</b>				
1.1	Supplying chemical emulsion in sealed containers including delivery as specified.				
	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	<b>50.00</b>	litre		
1.2	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
1.2.1	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.				
	With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration.	<b>200.00</b>	sqm		
1.2.2	Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	<b>50.00</b>	metre		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
<b>2.0</b>	<b>REINFORCED CEMENT CONCRETE</b>				
2.1	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering.				
a)	All work from plinth level upto floor V level				
i)	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.00	CUM		
2.2	Centering and shuttering including strutting, propping etc.with steel tubes and extension piers or built up section of roll steel and steel shuttering up to 3.9 m height and removal of form for :				
a)	Suspended floors, roofs, landing and balconies.	20.00	SQM		
2.3	Reinforcement for RCC work including straightening, cutting, bending, binding and placing in position complete.				

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
a)	Cold twisted bars/ Thermo mechanically treated bars as mentioned in the drawing.	0.20	Tonne		
2.4	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	0.50	CUM		
<b>3.0</b>	<b>BRICK WORK</b>				
3.1	Brick work with bricks of class designation 35 in Cement mortar 1:6 (1cement : 6 coarse sand)				
a)	In Superstructure				
i)	From plinth level to floor V level.	5.00	CUM		
3.2	Half brick masonry with bricks of class designation 35 in Cement mortar 1:3 (1 cement : 3 coarse sand)				
a)	In Superstructure				
i)	From plinth level to floor V level.	25.00	SQM		
3.3	Extra for providing and placing in position 2 Nos. 6 mm dia M.S. bars at every third course of half brick masonry.	25.00	SQM		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
3.4	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
a)	In cement mortar	2	cum		
<b>4.0</b>	<b>DOORS &amp; WINDOWS</b>				
4.1	Providing and fixing powder coated aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make confirming to IS:733 and IS: 1285, powder coated to required shade . (Minimum powder coating of 50 micron), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium `U'/snap beading for glazing/ panelling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and as directed. (Glazing and panelling to be paid for separately.)				

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
	(i) For fixed portions	50.00	Kg		
	(ii) For shutters of doors, & windows including providing and fixing Stainless Steel friction hinges/pivots and making provisions for fixing of fittings wherever required including the cost of PVC/neoprene gasket required as per drawing and as directed. (Fittings shall be paid for separately.)	20.00	Kg		
4.2	Providing and fixing flush door shutters decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
a)	35mm thick including anodised aluminium butt hinges with necessary screws.	10.00	SQM		
4.3	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. (Cost of aluminium snap beading shall be paid in basic it				
a)	With glass panes of 5.50mm thickness (weight not less than 13.75 kg./sqm.)	5.00	SQM		
b)	With float glass panes of 4.0 mm thickness	20.00	sqm		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
4.4	Extra for providing frostings on glass panes of 10.00 kg/sqm. (4mm thick) instead of ordinary glass panes 10.0 kg/sqm. (4mm thick) respectively in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured)	4.00	SQM		
4.5	Providing and fixing aluminium handles colour anodised (anodic coating not less than grade AC10 as per IS: 1868) to required colour or shade with necessary screws etc. complete.				
a)	125 mm.	15.00	Each		
4.6	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :	10.00	SQM		
4.7	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 10 mm	15.00	Each		
b)	250 x 10 mm	15.00	Each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
4.8	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. complete :				
a)	250 x 16 mm	5.00	Each		
4.9	Providing and fixing chrome plated brass 100 mm mortice latch and lock with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS :1868) aluminum lever handles with necessary accessories and screws etc. complete . (Best make of approved quality)	5.00	Each		
4.10	Providing and fixing IS 3564 marked Aluminium die cast body tubular type universal hydraulic door closer , Hardwyn make or equivalent with necessary accessories and screws etc. complete.	6.00	Each		
4.11	Providing and fixing aluminium hanging floor door stopper colour anodised to required colour & shade with necessary screws etc. complete				
a)	Twin rubber stopper	15.00	Each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
4.12	Providing and fixing 35mmx12mm 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 sal wood	50.00	Metre		
4.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:				
	Of area 3 sq. metres and below	70.00	each		
	Of area beyond 3 sq. metres	10.00	each		
<b>5.0</b>	<b>STEEL WORK</b>				
5.1	Steel work welded in built up sections/frame work including cutting, hoisting, fixing in position, making holes, repairing and applying a priming coat of approved steel primer using structural steel, locking arrangements if any etc. as required.				
a)	In gratings, frames, guard bar, ladders, railings, brackets, gates in similar works.	35.00	kg		
<b>6.0</b>	<b>FLOORING</b>				

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
6.1	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's 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 the Tile 60x60CM	10.00	SQM		
6.2	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.				
i)	Over 1 SqM and upto 2.0 SqM				
a)	18mm thick Granite stone	5.00	SQM		
<b>7.0</b>	<b>ROOFING</b>				

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
7.1	Providing non-asbestos high impact Polypropylene reinforced cement 6mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete excluding the cost of purlins, rafters and trusses: corrugated sheets and including cutting to size and shape wherever required.	30.00	sqm		
7.2	Extra for straight cutting in non- asbestos polypropylene reinforced cement corrugated, semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter for chimney stacks, skylights etc.	25.00	metre		
7.3	Extra for circular cutting in non-asbestos polypropylene reinforced cement corrugated/semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter.	50.00	metre		
7.4	Extra for providing and fixing wind ties of 40x 6mm flat iron section.	50.00	metre		
7.5	Providing and fixing ridges and hips in non-asbestos fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.				

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
a)	Corrugated serrated adjustable ridges	5.00	metre		
	<b>NON AC ACCESSORIES</b>				
7.6	Providing and fixing non-asbestos fibre cement high impact polypropylene reinforced roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete:				
a)	Corrugated apron pieces	5.00	metre		
	<b>9.0 SIGNAGES</b>				
9.1	Providing fabricating and fixing of signages of varying sizes and shapes using three mm thick PVC sheet at base with self adhesive coloured vinyl with graphicson top of glow tape complete including fixing on wall with screws and washers or hanging on ceiling.	200.00	sq inch		
	<b>10.0 INTERNAL PLUMBING , WATER SUPPLY &amp; SANITARY FIXTURES</b>				
	<b>SANITARY FIXTURES &amp; INTERNAL PLUMBING</b>				

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
10.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern 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 :				
	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	4.00	each		
10.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern 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	W.C. pan with ISI marked white solid plastic seat and lid	2.00	each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
10.3	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required :				
a)	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern.	1.00	each		
b)	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern.	1.00	each		
10.4	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				
10.5	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	10.00	each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
10.6	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required :				
10.7	White glazed fire clay kitchen sink of size 600x450x250 mm.	3.00	each		
10.8	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	10.00	each		
10.90	Providing and fixing G.I EXTENSION PIECE for 100 mm dia floor trap formed out of main pipe( Type A) with multiple side inlets, suitable for various dia pipes, side connections, including all fixtures and fittings as per site conditions and as per standard	5.00	Each		
10.10	Providing and fixing CP brass twin coat hooks fixed on toilet door/wall with CP brass screws.	5.00	Each		
<b>B)</b>	<b>SOIL, WASTE, RAIN WATER AND VENT PIPES</b>				

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
10.11	Providing and fixing soil, waste and vent pipes.				
a)	100 mm dia. Centrifugally cast (spun) iron S&S Pipe. (IS : 3989)	5.00	Metre		
b)	75 mm dia.centrifugally cast (spun) iron S & S pipe (IS : 3989)	5.00	Metre		
10.12	Providing and fixing M.S holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) inc				
a)	for 100 mm dia. pipe	2.00	Each		
b)	for 75 mm dia. pipe	2.00	Each		
10.13	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
a)	100 mm Centrifugally cast (spun) iron S&S.	2.00	Each		
b)	75 mm Centrifugally cast (spun) iron S&S.	2.00	Each		
10.14	Providing and fixing plain bend of required degree.				
a)	100 mm Centrifugally cast (spun) iron S&S	2.00	Each		
b)	75 mm Centrifugally cast (spun) iron S&S	2.00	Each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
10.15	Providing and fixing single equal plain junction of required degree.				
a)	100x100x100 mm Centrifugally cast (spun) iron S & S pipe	1.00	Each		
b)	75x75x75 mm Centrifugally cast (spun) iron S & S pipe	1.00	Each		
10.16	Providing and fixing terminal guard.				
a)	100 mm Centrifugally cast (spun) iron S&S	5.00	Each		
b)	75 mm Centrifugally cast (spun) iron S&S	5.00	Each		
10.17	Providing and fixing Double equal junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.				
a)	100x100x100 x100mm Centrifugally cast (spun) iron S & S pipe	1.00	Each		
10.18	Providing lead caulked joints to sand cast iron /centrifugally cast (spun) iron pipes and fittings of diameter:				
a)	100 mm	15.00	Each		
b)	75 mm	15.00	Each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
10.19	Providing and fixing sand cast iron/centrifugally cast(spun) iron trap of self cleansing design with sand cast iron screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors:				
a)	100 mm inlet and 100 mm outlet	5.00	Each		
10.20	Extra for providing and fixing stainless steel jali (grating) in place of C.I. grating with or without hole for waste pipe for floor/ Nahani trap.				
a)	100 mm dia weight not less than 100 gms.	5.00	Each		
<b>C</b>	<b>WATER SUPPLY</b>				
11.1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. (Internal work):				
a)	Exposed on Wall				
l)	15 mm dia nominal bore	30.00	Metre		
ii)	20 mm dia nominal bore	25.00	Metre		
iii)	25 mm dia nominal bore	15.00	Metre		
iv)	32 mm dia nominal bore	15.00	Metre		
v)	40 mm dia nominal bore	15.00	Metre		
vi)	50 mm dia nominal bore	15.00	Metre		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
11.2	Painting G.I. pipes and fittings with white paint over a ready mixed priming coat, both of approved quality for new work..				
i)	15 mm dia nominal bore	15.00	Metre		
ii)	20 mm dia nominal bore	10.00	Metre		
iii)	25 mm dia nominal bore	10.00	Metre		
iv)	32 mm dia nominal bore	10.00	Metre		
v)	40 mm dia nominal bore	15.00	Metre		
vi)	50 mm dia nominal bore	15.00	Metre		
11.3	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality.				
i)	15 mm dia nominal bore	10.00	Metre		
ii)	20 mm dia nominal bore	5.00	Metre		
iii)	25 mm dia nominal bore	5.00	Metre		
11.4	Providing and fixing G.I. union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work)				
ii)	20 mm dia nominal bore	2.00	Each		
iii)	25 mm dia nominal bore	2.00	Each		
iv)	32 mm dia nominal bore	2.00	Each		
v)	40 mm dia nominal bore	2.00	Each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
vi)	50 mm dia nominal bore	2.00	Each		
11.5	Providing and fixing brass bib cock of approved quality :				
a)	15 mm nominal bore	10.00	each		
11.6	Providing and fixing brass stop cock of approved quality :				
a)	15 mm nominal bore	2.00	each		
11.7	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
a)	25 mm nominal bore	2.00	each		
b)	32 mm nominal bore.	2.00	each		
c)	40 mm nominal bore	2.00	each		
11.8	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
a)	15 mm nominal bore	1.00	each		
b)	20 mm nominal bore	1.00	each		
11.9	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
a)	15 mm nominal bore	1.00	Each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
11.10	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931.				
a)	15 mm nominal bore	14.00	Each		
11.11	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	30 cm length				
a)	15 mm nominal bore	14.00	each		
11.12	Providing and fixing C.P brass stop cock (concealed ) of standard design and of approved make conforming to IS : 8931	2.00	each		
<b>12.0</b>	<b>SEWERAGE AND DRAINAGE</b>				
12.1	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 grade				
12.2	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
a)	With F.P.S. bricks with class designation 75	1.00	each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
12.3	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides				
a)	For pipes 100 to 230 mm diameter	1.00	each		
b)	For pipes 250 to 300 mm diameter	1.00	each		
12.5	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)	100 mm dia. R.C.C. pipe	5.00	metre		
b)	150 mm dia. R.C.C. pipe	5.00	metre		
c)	250 mm dia. R.C.C. pipe	5.00	metre		
12.6	Supplying, fixing, testing and commissioning of storage type water heater (Geyser) etc. with Stainless steel body , copper container , automatic thermostatic control electric element, pressure release valve, M.S. nuts and bolts etc. conforming to IS: 2082				
a)	35 Litre Capacity	1.00	Each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
12.7	Making chases upto 7.5 x 7.5 cm in walls including making good after housing G.I. pipe etc.	15.00	Metre		
12.8	Cutting hole in RCC slab for providing and fixing S&S floor trap including extension piece for waste water line.	10.00	Nos		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
<b>13.0</b>	<b>Misc.</b>				
13.1	Supply of Medium back chair for Doctors room & similar areas with following complete in all respect as per technical specifications and sketch : •Polyurethane upholstery. •Molded / curved back for lumbar support. •Polypropylene scratch resistant arm rest	4.00	Nos		
13.2	Supply of Rectangular Table (5'x3') complete in all respect as per technical specifications and sketch :	4.00	Nos.		
13.3	Supply of Side Table for Doctors room complete in all respect as per technical specifications. Sample to be shown for approval from client before manufacturing.	1.00	Nos.		
13.4	Providing & Fixing keyboard tray of minimum size 500x220x75mm with telescopic slides and made up of CRC 1.2mm thick CRCA steel sheet duly powder coated in approved colour complete as per technical specifications and as directed.	2.00	no		
13.5	Supply of visitor chairs with following complete in all respect as per technical specifications and sketch :	5	Nos		
13.6	Supply of MS powder coated File Cabinet with multiple drawers in height complete in all respect as per technical specifications.	4.00	Nos.		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
13.7	Supply of MS powder coated Almirah with multiple drawers in height complete in all respect as directed by the Engineer.	4.00	Nos.		
13.8	Supply of Water cooler having capacity of 40-40 complete in all respect as per technical specifications .	1.00	Nos.		
13.9	Collecting water samples from the developed tubewell, testing and submitting physical, chemical and bacteriological analysis, test etc. of water samples from an approved laboratory and submission of all test results including the yield test results.	1.00	Each		
13.10	Supply and fixing submersible pumpset suitable to give 12000 Lt/hr at a head of 160m to be placed at app depth at 135m with complete cabling from submersible pump to panel board to be placed outside in an enclosed brickwork enclosure.(The exact Duty & Model of pump shall be known after the development of tubewell.)	1.00	Each		
13.11	Supplying and fixing 65mm dia GI delivery pipe(medium class) as per IS 1239 duly flanged and welded.	25.00	Meter		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
13.12	Supplying and fixing Panel board at Ground level for submersible pump fitted with L&T make DOL starter ammeter, voltmeter, single phase preventor, standard Indocop make MCB, on/off switch, push button duly wired and made out of 16/18 SWG sheet.	1.00	Each		
13.13	Carrying out the step draw down test and aquifer performance test and development of tubewell for a period of atleast 72 hours by Contractor's own air compressor and turbine pump and engine, temporary piping arrangement for disposal of pumped out water	12.00	Hrs		
13.14	Applying, depositing fee and obtaining approval for connection of water supply line from Jal Board / MCD. Necessary fee will be reimbursed as per actual seperately on production of receipt.	1.00	No		
13.15	Providing following brand new vehicle at any time for exclusive use of Engineer during currency of contract. The number of vehicles and period shall be informed by the Engineer as per requirement. The rates are inclusive of services of drivers, fuel, oil etc complete .				
	a) Ambassador or equivalent as required.	5000.00	km		
<b>14.00</b>	<b>ELECTRICAL WORKS</b>				

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
14.01	Supplying and fixing of following way, horizontal type, three phase and neutral, sheet steel, MCB distribution board (double door type having provision for MCB-cum-ELCB as incomer), 415 volts, on surface/recess, complete 8 Way	1	Each		
14.02	Supply and fixing following rating, 415 volts, MCB-cum-ELCB (Earth leakage circuit breaker with short circuit & overcurrent protection) with current sensitivity of 30mA, in the existing MCB DB complete with connections, testing and commissioning etc. as r 32 Amps FP 40 Amps FP	1 1	Each Each		
14.03	Supplying and fixing following rating single pole, 240 volts, Miniature Circuit Breaker (MCB) in the existing MCB DB complete with connections, testing and commissioning etc. as required. 6-32 Amps	24	Each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
14.04	Supply and fixing following rating, 415 volts, Four Pole MCB, in sheet metal enclosure on surface/recess including connection of incoming and outgoing cables with all civil works for fixing, and all accessories complete as required				
	32 Amps, Four Pole	1	Each		
	<b>WIRING</b>				
14.05	Wiring for light point/fanpoint/ exhaust fan point/call bell point with 1.5 sq.mm. PVC insulated, copper conductor cable (including 1.5 sqmm PVC insulated, copper conductor cable for earthing from switchboard to each point) in surface/recessed steel conduit.	30	Point		
14.06	Wiring for 5A light plugs with 1.5 sq.mm. PVC insulated, copper conductor cable including 1.5 sq.mm. PVC insulated, copper conductor cable for earthing in surface/recessed steel conduit as per technical specifications and as required.	20	Point		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
14.07	Wiring for power plug with 2X4 sqmm PVC insulated, copper conductor, single core cable in surface/recessed steel conduit along with 1.5 sqmm PVC insulated, copper conductor, single core cable for loop earthing as per technical specifications & as require				
	Directly from MCB-Distribution Board to the Socket Outlets	15	Point		
14.08	Wiring for circuit wiring with following sizes PVC insulated, copper conductor, single core cable in surface/recessed steel conduit along with 1.5 sqmm PVC insulated, copper conductor, single core cable for loop earthing complete as required.				
	2X1.5 Sqmm with 1 no. loop earth wire	15	Metre		
14.09	Supplying and fixing suitable Module metal box on surface or in recess including providing and fixing 5 pin 5/6 amps. modular socket outlet with shutters and 5/6 amps. modular type switch, base plate, modular cover plate, connections etc.	20	Each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
14.10	Supplying and fixing suitable module modular metal box on surface or in recess including providing and fixing 6 pin 15/16 A modular socket outlet with shutters and 15/16 A modular switch, base plate, modular cover plate, connections, etc.	20	Each		
14.11	Supply of following light fixture with electronic ballast, starter, capacitor, tubes/lamps, reflector, diffuser, MS body/housing holder etc. complete with all fixing accessories as required.				
	1X36watt decorative type fluorescent light (Crompton Greaves CSBW 114EB/N or equivalent)	30	Each		
	2X36watt box type fluorescent light (Crompton Greaves IGP1424EB or equivalent)	10	Each		
14.12	Supply of following ceiling fans complete with double ball bearing, motor, blades, downrod, canopies, capacitor, modular type electronic fan regulator etc. suitable for operation on 230 volts, 50 Hz., 1 phase, AC supply complete as required				
	1200 mm sweep	5	Each		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
14.13	Supply of following sizes of heavy duty exhaust fan suitable for single phase 230 volts, 50 Hz., AC supply complete with motor, louvers/shutters etc. complete as required. 200 mm. dia., 1400 RPM	4	Each		
14.14	Supply and fixing of following sizes of steel conduit alongwith the accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of conduit as recessed required 20 mm dia	15	Metre		
14.15	Supply of following sizes of 1.1 kV grade multicore aluminium conductor PVC sheathed armoured cable as per IS 1554. 2 Core 16 Sqmm.	35	Metre		
14.16	Laying of one number PVC insulated and PVC sheathed power cable 1.1kV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required Size not exceeding 25 sq.mm	35	Metre		

Item No	Description Of Item	Total Qty	Unit	Rate in figures (Rs.)	Rate in words (Rs.)
14.17	Supplying and making end termination with brass compression glands of following sizes of 1.1. kv grade multicore aluminium conductor PVC insulated and PVC sheathed 2 Core 16 Sqmm.	4	Each		
14.18	Applying, depositing fee and obtaining approval for connection of electric supply line from Electricity Board. Necessary fee will be reimbursed as per actual seperately on production of receipt.	1.00	No		
				<b>TOTAL</b>	
	Any or all BOQ items may vary upto + or - 50%				



















Amount (Rs.)



Amount (Rs.)



















<b>Amount (Rs.)</b>

Amount (Rs.)









Amount (Rs.)





Amount (Rs.)