

REVISED - FINANCIAL BID: SCHEDULE -A- SCHEDULE OF RATES AND QUANTITIES**PROJECT : PROPOSED CONSTRUCTION CANARA BANK'S RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT DINDIGUL,TAMILNADU.**

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
A		CIVIL WORKS					
		Preparatory Works					
1		Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	818.5	sq.m			
		Earth work					
2	2.6.1	Earthwork excavation for foundation (for narrow excavation) to full depth as per design in all soils and sub soils except soft disintegrated rock not requiring blasting and hard rock requiring blasting and bailing water wherever necessary. Refilling the sides of foundation with excavated earth other than sand in layers of well rammed and compacted and depositing the surplus earth in places shown by the departmental officers with an initial lead of 10m and initial lift of 2m and clearing and leveling the site etc. complete complying with standard specification.	476.6	cu.m			
3	2.34.1 2.35.1	Providing Pre-constructional anti- termite treatment and creating a chemical barrier to the building by injecting chemical emulsion of required concentrations raft slab and beam, under Cellular raft slab, around the footings, column pits, trenches, pits, wall trenches, back fill, plinth filling, junction of wall and floor, side walls of foundation, external perimeter of building,surrounding of pipes expansion joints, etc. as per IS specification and as per the instructions of chemical manufacturer and all as directed.The treatment shall be carried out strictly in accordance with the technical specification and conforming to IS 6313 (PART-2) or equivalent BS specification.					

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		1.The chemical to be used as insecticides for the treatment shall be CHLOROPYRIPHOS 20% (or) 50% EC and the application shall be dilute one part of chemical 20% or 50% EC with 19 or 49 parts of water to get 1% emulsion and strictly in accordance with the manufacturer's specification.(or) 2.The chemical to be used as insecticides for the treatment shall be IMIDACLOPRID 30.5% S C and the application shall be applied at 0.075% active ingredients concentration i.e. 2.1ml formulated product diluted 1 lit of water and strictly in accordance with the manufacturer's specification. (Note:The Minimum 10 years guarantee for all anti termite treatment works to cover this guarantee 5% of the bill amount will be held till guarantee period.)	533.0	sq.m			
4	2.27	Supplying and filling in foundations and basement with River sand (no M sand should be used for this work) in layers not exceeding 15 cm.thick,well watered,rammed and consolidated etc. complete complying with standard specifications.	48.0	cu.m			
5	4.1.8	Plain Cement Concrete 1 : 4 :8 (one part of cement, four parts of sand and eight parts of hard broken stone) using 40 mm gauge hand broken hard broken granite stone jelly complying with standard specifications in foundations and basement.	78.0	cu.m			
6	2.25	Refilling the approved good quality earth in plinths, area development etc. wherever specified in layers of not exceeding 200 mm thick., with available earth at site.	238.0	cu.m			
7		Filling the site with approved quality natural Earth / STONE DUST brought from outside including cost of material, conveyance, loading , unloading, levelling, compaction and consolidation in layers of 2 to 3 feet with heavy duty roller machine with necessary watering to make the filled up area firm and solid with other adjoining soil surface. etc. all complete.	8108	cu.m			
8		Supplying and Erecting centering for sides and soffits including supports and strutting up to 3.30 m height with all cross bracing for plane surfaces as detailed below, using mild steel sheets of 90 X 60 cm 10 gauge stiffened with MS angle of 25 x 25 x 3mm for boarding, laid over adjustable span & jacks and supported by 50mm dia pipes for general pipes scaffolding systems @ a spacing of 1.20m c/c and vertical connected at a height of 2.0m c/c including 'C' & 'U' clamps and base receiver cup at bottom for connecting pipes etc and removable systems etc complete					
a.	4.3.1	Footing, plinth beam, etc.	598.0	sq.m			

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b.	5.9.3	Plain surfaces such as roof slab, floor slab, beams , lintels , loft, sill slab, staircase waist , portico slab and other similar works.	1514	sq.m			
c.	4.3.2	Square, rectangular and round columns and small quantities such as sunshades,parapet cum drops,window boxing ,fin projections and other similar works.	835.0	sq.m			
9		DESIGN MIX CONCRETE					
		Supplying and placing of Ready Mix Concrete (RMC) or Design Mix concrete as per weigh batching at site M25 grade -320 KG/CUM minimum cement content of with OPC 53 Grade of Concrete confirming to IS 456/2000 for Reinforcement Cement Concrete Structural elements under controlled water cement ratio using 20mm and down graded machine broken granite stone jelly including transportation and pumping excluding cost of centering and shuttering and reinforcement but including curing, finishing etc as directed by departmental officers					
a	5.40.1	Foundation and basement	192.0	cu.m			
b	5.40.2	Ground floor	164.0	cu.m			
c	5.40.2	First Floor	99.0	cu.m			
d	5.40.2	Terrace floor	17.0	cu.m			
		Steel - Fe 500					
10	5.22.6	Supply, fabrication and placing of reinforcement steel of high yield strength ribbed bars of various diameters and grade conforming to IS 1786 for reinforced concrete work. The work includes decoiling, straightening, cutting, bending, fabricating, and placing in position, at all levels including lead and lift, according to drawings, specifications etc. complete and supply & use of 18G black annealed binding wire double fold to tie the bars in position, chairs, pins, spacer bars unauthorised laps which will not be measured separately neither for payment nor for reconciliation and providing precast cement/ PVC cover blocks for main reinforcement to ensure specified cover and including all labour charges etc as directed by departmental officers.	62900.0	Kg			
11		Providing and constructing 230 mm thick brick walls in CM 1:5 (one part of Cement, five parts of River sand) using Table moulded, Chamber burnt, Stock Bricks <i>having minimum of 35kg/cm2 compressive strength and of size 9" x 4 1/2 " x 3"</i> including curing, scaffolding ,materials, labours, tools & plant etc. complete.					

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
a	6.1.2	Foundation basement	45.0	cu.m			
b	6.4.2	Ground floor	82.7	cu.m			
c	6.4.2	First Floor	67.9	cu.m			
e	6.4.2	Terrace floor	30.3	cu.m			
12		Providing and constructing 110mm thick (Plus or minus 5mm) brick masonry in cement mortar 1:3 for partition walls using well burnt best quality bricks having minimum of 35kg/cm ² compressive strength including supplying and laying 1 No 6mm dia MS bars at every fourth layer including scaffolding curing cost of reinforcement etc. all complete as per specifications and drawings as directed by the Engineer in-charge.					
a	6.13.2	Ground floor	330.0	Sq.m			
b	6.13.2	First Floor	285.0	Sq.m			
		BAND CORNICE WORK					
13		Providing Band cornice work using country brick in cement mortar 1:4 (1 cement and 4 river sand)plastered with cement mortar1:4 (1 cement and 4 river sand) 12mm thick including rendering smooth with cement at 22.5kg/per 15m length curing necessary scaffolding and centering etc.complete as directed during execution.					
		150mm projection band work	288.00	R.mt			
14		Providing and applying 12 mm thick Cement plaster in Cement mortar 1:3 (One part of Cement and Three parts of Sand), to finishing the exposed surfaces of R.C.C. items of works such as Roof (or) floor slabs, beams, and Sun shades etc.to correct plane and level including steel scaffolding, hacking of surface, chiselling the undulated surface wherever necessary, with smooth finish with lime rendering and curing etc.,(all materials and labour complete in all respects including all lead, lift and descent and as directed by the Engineer in charge.)This rate includes the cost of providing Cement Mortar beadings for sun shades, steps,landing slabs,elevation etc.complete.	1019.0	sq.m			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
15		Providing & applying 15 mm thick cement plaster in CM 1:4(1 part of cement: 4 parts of sand) to walls internally in single coat at all levels to correct line and level including chicken wire mesh at all joints of brick and concrete surfaces with minimum overlap of 150 mm in all directions, scaffolding, rounding off or chamfering of corners, offsets,fin/ bands, projections,etc.and cleaning of surface,raking out joints, roughening of surface ,chiseling the undulated surface wherever necessary, with smooth finish with lime rendering and curing, etc.,(all materials and labour complete in all respects including all lead, lift and descent and as directed).	2510.0	sq.m			
16		Providing & applying 20 mm thick cement plaster in CM 1:5(1 part of cement:5 parts of sand) to walls externally in single coat at all levels to correct line and level including steel scaffolding, rounding off or chamfering of corners,offsets, fin/ bands,projections, etc.and cleaning of surface,raking out joints, roughening of surface,chiseling the undulated surface wherever necessary and curing, etc.,(all materials and labour complete in all respects including all lead,lift and descent and as directed).	966	sq.m			
17		CEMENT CONCRETE FLOORING					
		Providing, machine mixing and laying on the P.C.C/ R.C.C. surface in approved panels of 62 mm thick CC flooring in cement concrete mix of 1:2:4 (1 Cement: 2 Sand: 4 Aggregate 10 to 12 mm thick) well vibrated,compacted including 45 X 3 mm glass dividing strip, fixed to correct level and finished smooth and cured by keeping surfaces well-covered and protected against excess of an type. (The contractor to provide for preparation of surface by cleaning, hacking and exposing aggregate to achieve the best bond and any curling, lifting or beybonding noticed shall be rectified by the contractor at his cost).	52	sq.m			
18	11.41.2	Providing & laying full body vitrified tiles flooring of Naveen/ Johnson/ Kajaria/ RAK/Somany makes and of marble shades (colour and shade as selected by Architect/ Trust) and of size 600 mm x 600mm x 10mm in all floors and skirting over a base layer of cement mortar 1:3 (one cement and three sand), cement slurry with 3mm PVC spacers and grouting the joints with suitable grouting compound of mactching colour, curing etc. complete.(Basic rate -600/sq.m). The item shall include applying POP after laying and clearing off the same after compeltion of all works and cleaning thoroughly all stains with acid wash. Skirting also will be measured on area basis only.	535.0	sq.m			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
19	11.4	Supplying, laying and fixing in position Anti-skid ceramic tiles of size minimum 1 ft x 1 ft, approved quality and colour laid using CM 1:3 - 20 mm thk and cement slurry. Including cutting the tiles to the required size with special cutter where ever necessary and pointing the joints with coloured cement using 0.40 Kg / Sqm including finishing the flooring and pointing the joints flesh with tile surface etc. complete. (Basic rate-430/sq.m)	99.0	sq.m			
20	11.36	Dadoing the walls with coloured glazed tiles of minimum 12"x18" size and of approved quality and colour set in CM 1 : 2 - 10 mm thk and cement slurry. And pointed with suitable cement including finishing the joint and pointing flush with walls and tile surface in all floors at the rate of 0.40 Kg /Sqm etc. complete. (Basic rate-430/sq.m).	342.0	sq.m			
21		Providing and laying 19 mm thk pre-polished granite of multi red or black granite or any other selected colour/ designs and of approved size and pattern, fixed using 20mm thick CM 1:3 and cement slurry including nosing where ever necessary as per detailed drawings and/or specifications and as directed by the Engineer in charge. (for Corridor,Steps & Entrance areas as decided by the Trust Officials) (Granite basic rate-1500/sq.m).	249.0	Sq.m			
22		Supply and fixing of polished granite slab 19 mm thick (average) of approved shade/colour for flooring including fixing in position cutting, chipping the wall, masonry touch up works etc.fixed with 20mm thick cement mortar 1:3 and cement slurry, complete in all respects for all floors as directed by the Trust officials.(Kitchen Plat form, Wash Basin) (Granite basic rate-1500/sq.m).	10.0	Sq.m			
23	11.26.1	Flooring with kota stone slab of size 600 x 600 of 25mm (one side polished and other side un-polished) in all floors, steps and other area laid in of cement mortar 1:4 (one cement four sand), 25mm thick and pointed with color cement neatly including polishing with polishing stone and oxalic acid etc., so as to perfect & even and smooth glossy surface and including hire charges for polishing machine and power consumption charges etc. The kota stone slabs and other materials to be used shall be got approved by the architect / Trust officials before using in the work, etc., complete as per standard specification.(Kitchen,Wash Area) (Kota stone basic rate-550/sq.m)	22.9	Sq.m			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
24	9.48.1	Providing, fabricating and fixing M.S. grills for Windows and ventilators (as shown in the TENDER drawing sheet no: D-TD-09), made out of 12 mm square M.S bars, around flat of 32mm x10mm thickness etc. including necessary welding, grinding, fixing to the masonry wall using Cement concrete and cement mortar 1:4 proportion complete as per drawings and specifications and as directed by the Engineer.	2525	KG			
25		Providing and fixing stainless steel handrail 900mm high (as shown in the TENDER drawing sheet no: D-TD-07) made out of stainless steel conforming to SS 304 with 8% to 8.5% nickel using 75 mm outer dia for top rail (with 1.6mm wall thickness) and 50.00mm (1.6mm wall thickness) stainless steel pipes placed vertically as per drawing and two horizontal SS pipes 25mm (with 1.2mm wall thickness) welded at a distance of 300mm using TIG welding process with 308L SS electrode (in station building all floor staircases) with necessary bends, flanges and base plates. Rate is inclusive of all materials, labours, lead, lift,etc. as per tender drawing and as directed by Engineer in-charge.	48.0	sq.m			
26		Providing and fixing aluminium (50 micron thick powder coated of approved colour) of below mentioned type track Sliding windows and Aluminium Ventilator with fixed glazing using standard design and sections complying to 'INDAL, Specification for sliding section with necessary accessories (as shown in the TENDER drawing sheet no: D-TD-09) including all fittings, fixtures, locking device aluminium mesh, handle etc, complete, as directed by Architect. The shutter panels shall be provided with 6mm thick plain glass of Saint Gobian or Asahi make with rubber gasket beadings.					
a		Two track sliding windows (for class rooms, work sheds, bath rooms, common areas and ventilators). (as shown in the TENDER drawing sheet no: D-TD-09) Frame section bottom, Top and side - section bottom, Top and side - 62x45.5x1.5mm, Shutter section - bottom, Top and side - 40x18x1.5mm	55.0	sq.mt			
b		Three track sliding windows (for Office, Dormitories, faculty rooms areas only). (as shown in the TENDER drawing sheet no: D-TD-09) Frame section bottom, Top and side - 92x45.5x1.5mm, Shutter section - bottom, Top and side - 92x45.5x1.5mm. There shall be one mosquito meshed shutter using SS material mesh for each window in addition to the glass panes shutters shall be provided.	50.0	sq.mt			
27	9.117	PVC DOOR (for toilet/ bath rooms)					

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
a		Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge. (as shown in the TENDER drawing sheet no: D-TD-08)					
	9.117.1	Extrude section profile size 48x40mm	130.00	R.mt			
b		24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter). (as shown in the TENDER drawing sheet no: D-TD-08)	41.00	sq.m			
28		DOUBLE LEAF GLASS MAIN ENTRANCE DOOR					
		Providing and fixing Glazed door using 12mm thk Plain glass with border design & emblem etc using frosted film. The plain glass with design made in frosted film shall be fixed using Well seasoned beach wood sections of size 1 1/2" x 5" at top and the Bottom rail of size 1 1/2" x 10".The rails to be made out of best quality beach wood. Ech door shutter shall have 18" long Stainless steel handle and fixed to the floor using 2 nos double action floor spring of Ozone make . The design in glass pattern to be followed strictly as per instructions of the Architect andas per the detailed working drawings. Size of the door is around 6 ft x 8 ft and actual size may vary as per site conditions. The vertical exposed edges of the glassshutters to be machine polished. Fixing will be using dorma/Equivalent patch fitting and locking arrangement is to be used for fixing the glass.(as shown in the TENDER drawing sheet no: D-TD-08)	5.0	sq.m			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
29i		DOUBLE SHUTTERED WOODEN DOORS: Supplying and fixing Double Leaf Flush Doors using around door frame made of well seasoned Padaku or Vengai species or equivalent hard wood of 125x100mm size with machine planing and offset for shutter position and shutter shall be made of 30 mm thick factory made water proof grade flush shutter of GREENPLY/KITPLY/CENTURY/UNIPLY makes finished with both side 1.0 mm thk laminate of Formica/Greenlam make and of approved shade, colour. The shutters around edges shall be lipped with approved first class quality teak wood lipping. Each door frame shall be fixed in position using 6 Nos. of iron hold fast using C.C.1:2:4 proportion. (as shown in the TENDER drawing sheet no: D-TD-08)					
29ii		Each door shutter shall be fixed door frame using 4 Nos. of S. Steel butt hinges 125mm long including wind appliances furniture iron fittings, There shall be 2 Nos. of s s Aldrop of 250mm length, 4 Nos. of SS tower bolts of 150mm length, 4 nos 150 mm SS handles, 2 nos S S door stoppers and fixed in position as directed during execution. (ISI STD). etc., complete.	23.0	sq.m			
30i		SINGLE SHUTTER FLUSH DOORS: Supplying and fixing single Leaf Flush Doors using around door frame made of well seasoned Padaku or Vengai species or equivalent hard wood of 125x100mm size with machine planing and offset for shutter position and shutter shall be made of 30 mm thick factory made water proof grade flush shutter of GREENPLY/KITPLY/CENTURY/UNIPLY makes finished with both side 1.0 mm thk laminate of Formica/Greenlam make and of approved shade, colour. The shutters around edges shall be lipped with approved first class quality teak wood lipping. Each door frame shall be fixed in position using 6 Nos. of iron hold fast using C.C.1:2:4 proportion. (as shown in the TENDER drawing sheet no: D-TD-08)					
30ii		Each door shutter shall have 1 no 10" long S S make Aldrop, 2 nos-6" long S S handles, 2 nos 6" long S S tower bolts all approved makes, 4 nos SS cut hinges of 5" length, 1 no floor mounted SS door stopper etc. complete as per detailed drawing.	36.0	sq.m			
31		SLIDING DOOR : Providing & fixing sliding door using aluminium powder coated door frame and shutter sections with matt finish, partly glazed with 6 mm plain glass and partly panelled using 12 mm thick both side pre-laminated particle board, fixed with fixed & sliding aluminium channels and fittings like 2 door handles, one concealed 4 lever lock, door stopper, 2 nos-6" long PC Aluminium tower bolts etc. all complete. (as shown in the TENDER drawing sheet no: D-TD-08)	3.0	sq.m			
32		STEEL DOOR					

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
		Manufacturing, supplying and fixing of Steel doors with following specification. MS angle of size 50x50x6mm at 3.9 kg/m shall be used for outer frame and MS Angle of size 35x35x5mm at 2.6 Kg/m for the shutter frame. Stiffeners with 32x6mm at 1.5 Kg/m MS Flat is provided as the lock rail of the door and welded intact on both ends to the shutter frame. 18 G CR Sheets of best quality is laid as panel in the shutter frames. 18x5mm at 0.70 kg/m MS flat is welded over the 32x6mm at 1.50kg/m MS Flat on the rear side of the door, sandwiching the CR Sheet for rigidity. Additional stiffeners with 18x5mm at 0.7 Kg/m MS flats are provided diagonally on the rear side of the shutter. Each door & shutter combine shall have 2 nos 10 inch long MS Aldrops- 2Nos, 4 nos 6" length MS hinges, 6 Nos of 250mm length hold fasts 200mm length specified at the ends are welded to the outer frame of the door. Tower bolt 2 Nos at the top & bottom provided. (as shown in the TENDER drawing sheet no: D-TD-08)	3.8	sq.m			
33		Providing & filling the Toilet/bath rooms sunken areas using cinder/ industrial waste slab or broken brick jelly 20 mm gauge The proportion of broken brick jelly to slaked lime being 1:3:6 (1 part cement,3 part fine aggregate & 6 part broken brick jelly), well beaten by wooden beaters for giving required slope and thickness required etc complete complying with standard specifications and as directed by Departmental Officers.	21.0	Cu.m			
		PAINTING WORKS					
34		Providing and applying two coats of synthetic Enamel paint of approved colour, shade and make over a coat of anti corrosive Zinchromite primer on the new steel work , after suitably preparing the surfaces for receiving the new paint by surface scraping, rubbing applying filler, cleaning the paint drop stains after completion painting works etc. including cost of filler, primer, paint all complete as per specifications.	90.0	sq.m			
35		Providing and applying two coats of synthetic Enamel paint of approved colour, shade and make over a coat of of wood primer over the new wood surface , after suitably preparing the surfaces for receiving the new paint by surface scraping, rubbing applying filler, cleaning the paint drop stains after completion painting works etc. including cost of filler, primer, paint all complete as per specifications.	100.0	sq.m			

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36		Providing and applying Acrylic Emulsion paint finish of approved make & shade in two coats over a coat of approved primer and 2 coats of smooth putty to give an even shade as per manufacturer's instruction to the internal ceiling plastered surfaces including preparation of surfaces, scaffolding, cleaning the paint drop stains after completion painting works etc.all complete as per specification at all heights.	1019.0	sq.m			
37		Providing and applying Acrylic Emulsion paint finish of approved make & shade in two coats over a coat of approved primer and 2 coats of smooth putty to give an even shade as per manufacturer's instruction to the internal wall plastered surfaces including preparation of surfaces, scaffolding, cleaning the paint drop stains after completion painting works etc.all complete as per specification at all heights.	2168.0	sq.m			
38		Supplying and painting the exterior walls with one coat of wall primer and two coats of Acrylic Exterior emulsion (apex quality of Asian paints or its equivalent) as per manufacturers specifications including preparation of surface, curing the primer coat and including Scaffolding, cleaning the paint drop stains after completion painting works etc., complete in all floors complying with standard specifications (The colour and shade of the paint shall be got approved by the Architect/ Engineer before use).	966.0	sq.m			
39		Providing & laying Weathering Course Concrete using best quality broken brick jelly of 20 mm uniform gauge in pure slaked lime (NO Sand to be used) over the RCC roof slab in the proportion of brick jelly to lime being 32 : 121/2 by volume laid over in single layer and consolidated to the required slope and finished thickness and beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime, jaggery water etc. complete complying with standard specifications and as directed by the Engineer incharge. <u>This Water proofing work shall be guaranteed for minimum of five years period for water tightness.</u>	54.0	cu.m			
40	12.55	Finishing the top of the roof with one course of weather proof pressed Tiles of size 230 mm x 230 mm x 18mm thick of approved quality laid in Cement Mortar 1:3 (One part of Cement and Three parts of Sand) mixed with water proofing compound at 2% by weight of cement used and the top pointed with approved grouting material etc. complete complying with standard specifications.	559.0	sq.m			

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41	22.5	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. ii) 11nd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand)mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.iii) 111rd course of applying blown or residual bitumen applied hot at 1.7Kg. per sqm of area. iv) 1Vth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.). <u>This Water proofing work shall be guaranteed for minimum of five years period for water tightness.</u>	127.0	sq.m			
		UNDERGROUND SUMP -15000 LITRES CAPACITY. The below entire sump tank sub-head works (items from no. 42 to 53 will be treated as comprehensive Water proofing related works and shall be guaranteed for minimum of five years period for water tightness and comes under special works category wth performance guarantee.					
42	2.6.1	Earthwork for foundations and depositing on bank with initial lead of 10 Mt. and initial lift of 2 Mt. in sand, silt or other loose soil, wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil including excavated earth. (SS 20 B)	35.00	cu.m			
43	2.25	Refilling the approved good quality earth in plinths, area development etc. wherever specified in layers of not exceeding 100 mm thick., with available earth at site.	8.00	cu.m			
44	2.27	Supplying and filling in foundation and basement with River sand in layers of not more than 10cm thick well watered, rammed and consolidated etc., complete as per standard specification.	2.27	cu.m			
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45	4.1.8	Laying the Plain Cement Concrete 1:4:8 (One cement four sand and eight broken Machine crushed stone jelly) using HBG Machine creased Machine crushed stone jelly of size 40mm gauge for founding and basement including de- watering if found necessary and laid in layers of not more than 15cms thick etc., complete complying with standard specification and as directed by the departmental officers. The rates inclusive of Centering , shuttering, strutting, propping,removal of form work if it is required and all leads ,lifts and curing etc.. (Derived from S I No 120)	2.27	cu.m			
46	5.9.3	Supplying and Erecting centering for sides and soffits including necessary supports and strutting up to 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at about 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specification. (Payment for centering shall be given after the concrete is laid)	58.00	sq.m			
47	5.40.1	Supplying and placing of Ready Mix M25 grade -340 KG/CUM minimum cement content of with OPC 53 Grade of Concrete confirming to IS 456/2000 for Reinforcement Cement Concrete for Raft slab Cover slab and wall concrete work Structural elements under controlled water cement ratio using 20mm and down graded machine broken granite stone jelly including transportation and pumping excluding cost of centering and shuttering and reinforcement but including curing, finishing etc as directed by departmental officers	12.00	cu.m			
48		Providing, supply, mixing laying cement plastering 20mm thick with cement mortar 1:4 mixed with water proofing compound Conplast X4211C conforming to IS:2645, @ 150ml per bag of cement (normal setting integral water proofing compound) as specified by the manufacturer over PCC leveling course including preparation of surface, dewatering, finishing, curing etc. all complete as per manufacture's Specification and direction	45.00	sq.m			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
49	5.22.6	Supply, fabrication and placing of reinforcement steel of high yield strength ribbed bars of various diameters and grade conforming to IS 1786 for reinforced concrete work. The work includes decoiling, straightening, cutting, bending, fabricating, and placing in position, at all levels including lead and lift, according to drawings, specifications etc. complete and supply & use of 18G black annealed binding wire double fold to tie the bars in position, chairs, pins, spacer bars unauthorised laps which will not be measured separately neither for payment nor for reconciliation and providing precast cement/ PVC cover blocks for main reinforcement to ensure specified cover and including all labour charges etc as directed by departmental officers.	2000.00	Kgs			
50		Providing & fixing in suitable locations C.I.Manhole covers (heavy duty) of various sizes of best approved quality and as per standard specifications etc., complete.0.6X0.6M Size etc., complete.	2.00	Nos			
51		Providing & fixing M S Foot rest of 8"x6" exposed size made of 40mm x 40mm x 6mm MS angles inside the sump including labour charges etc., complete.	5.00	Nos			
52		Providing, machine mixing and laying on the P.C.C/ R.C.C. surface in approved panels of 25 mm thick granolithic flooring in cement concrete mix of 1:2:4 (1 Cement: 2 Sand: 4 Aggregate 10 to 12 mm thick) well vibrated, compacted including 45 X 3 mm glass dividing strip, fixed to correct level and finished smooth and cured by keeping surfaces well-covered and protected against excess of an type. (The contractor to provide for preparation of surface by cleaning, hacking and exposing aggregate to achieve the best bond and any curling, lifting or debonding noticed shall be rectified by the contractor at his cost).	12.00	sq.m			
53		Carting away the surplus earth and debris to a lead of 50 mtrs within the plot and dumping in as directed during the execution.	10.00	cu.m			
UNDER GROUND SEPTIC TANK-15Kld capacity							
54	2.6.1	Earthwork for foundations and depositing on bank with initial lead of 10 Mt. and initial lift of 2 Mt. in sand, silt or other loose soil, wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil including excavated earth. (SS 20 B)	27.00	cu.m			
55	2.25	Refilling the approved good quality earth in plinths, area development etc. wherever specified in layers of not exceeding 100 mm thick., with available earth at site.	9.00	cu.m			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
56	2.27	Supplying and filling in foundation and basement with River sand in layers of not more than 10cm thick well watered, rammed and consolidated etc., complete as per standard specification.	2.27	cu.m			
57	4.1.8	Laying the Plain Cement concrete 1:4:8 (One cement four sand and eight broken Machine crushed stone jelly) using HBG Machine creased Machine crushed stone jelly of size 40mm gauge for founding and basement including de- watering if found necessary and laid in layers of not more than 15cms thick etc., complete complying with standard specification and as directed by the departmental officers. The rates inclusive of Centering , shuttering, strutting, propping,removal of form work if it is required and all leads ,lifts and curing etc.	2.27	cu.m			
58	5.9.3	Supplying and Erecting centering for sides and soffits including necessary supports and strutting up to 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at about 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specification. (Payment for centering shall be given after the concrete is laid)	17.61	sq.m			
59	5.40.1	Supplying and placing of Ready Mix M25 grade -340 KG/CUM minimum cement content of with OPC 53 Grade of Concrete confirming to IS 456/2000 for Reinforcement Cement Concrete for Raft and cover slab Structural elements under controlled water cement ratio using 20mm and down graded machine broken granite stone jelly including transportation and pumping excluding cost of centering and shuttering and reinforcement but including curing, finishing etc as directed by departmental officers	5.00	cu.m			
60	6.13.2	Providing and constructing 110mm thick (Plus or minus 5mm) brick masonry in cement mortar 1:3 for Baffle walls using well burnt best quality bricks having 35 kg/cme strength including supplying and laying 1 No 6mm dia MS bars at every fourth layer including scaffolding, curing, cost of reinforcement etc. all complete as per specifications and drawings as directed by the Engineer in-charge.	4.99	sq.m			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
61	6.4.2	Providing and constructing 230 mm thick brick walls in CM 1:5 (one part of Cement, five parts of River sand) using Table moulded, Chamber burnt, Stock Bricks of 35 kg/cm2 strength and of size 9" x 4 1/2 " x 3" including curing, scaffolding ,materials, labours, tools & plant etc. complete.	4.99	cu.m			
62		Providing, supply, mixing laying cement plastering 20mm thick with cement mortar 1:4 mixed with water proofing compound Conplast X4211C conforming to IS:2645, @ 150ml per bag of cement (normal setting integral water proofing compound) as specified by the manufacturer over PCC leveling course including preparation of surface, dewatering, finishing, curing etc. all complete as per manufacture's Specification and direction etc.,	62.00	sq.m			
63		Supplying and fixing in position C.I.Manhole covers (heavy duty) mof various sizes of best approved quality and as per standard specificationsetc., complete.0.6X0.6M Size etc., complete.	2.00	Nos			
64		Providing & fixing M S Foot rest of 8"x6" exposed size made of 40mm x 40mm x 6mm MS angles inside the sump including labour charges etc., complete.	5.00	Nos			
65		Providing, machine mixing and laying on the P.C.C/ R.C.C. surface in approved panels of 25 mm thick granolithic flooring in cement concrete mix of 1:2:4 (1 Cement: 2 Sand: 4 Aggregate 10 to 12 mm thick) well vibrated,compacted including 45 X 3 mm glass dividing strip, fixed to correct level and finished smooth and cured by keeping surfaces well-covered and protected against excess of an type. (The contractor to provide for preparation of surface by cleaning, hacking and exposing aggregate to achieve the best bond and any curling, lifting or beybonding noticed shall be rectified by the contractor at his cost).	13.52	sq.m			
66		Carting away the surplus earth and debris to a lead of 5kgm.and dumping in the Land as directed during the execution.	27.00	cu.m			
		COMPOUND WALL - BOQ					

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
67	2.6.1	Earthwork excavation for foundation (for narrow excavation) to full depth as per designed in all soils and sub soils except soft disintegrated rock not requiring blasting and hard rock requiring blasting and bailing water wherever necessary. Refilling the sides of foundation with excavated earth other than sand in layers of well rammed and compacted and depositing the surplus earth in places shown by the departmental officers with an initial lead of 10m and initial lift of 2m and clearing and leveling the site etc. complete complying with standard specification.	98.00	cu.m			
68	2.27	Supplying and filling in foundation and basement with River sand in layers of not more than 15cm thick well watered, rammed and consolidated etc., complete as per standard specification.	14.00	cu.m			
69	4.1.8	Laying the Plain Cement concrete 1:4:8 (One cement Four sand and Eight broken Machine crushed stone jelly) using HBG Machine creased Machine crushed stone jelly of size 40mm gauge for founding and basement including de- watering if found necessary and laid in layers of not more than 15cms thick etc., complete complying with standard specification and as directed by the departmental officers. The rates inclusive of Centering , shuttering, strutting, propping,removal of form work if it is required and all leads ,lifts and curing etc.	14.00	cu.m			
70	2.25	Refilling with excavated soil and available earth (other than sand) with out boulders, roots and vegetations complying with standard specification for filling in foundation and basement	41.00	cu.m			
71		Supplying and Erecting centering for sides and soffits including necessary supports and strutting up to 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at about 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specification. (Payment for centering shall be given after the concrete is laid)					
a	4.3.1	Footing,Plinth Beam	161.10	sq.m			
b	4.3.2	Column	74.51	sq.m			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
72	5.40.1	Supplying and placing of Ready Mix M25 grade -320 KG/CUM minimum cement content of with OPC 53 Grade of Concrete confirming to IS 456/2000 for Reinforcement Cement Concrete Structural elements under controlled water cement ratio using 20mm and down graded machine broken granite stone jelly including transportation and pumping excluding cost of centering and shuttering and reinforcement but including curing, finishing etc as directed by departmental officers	36.00	cu.m			
73	5.22.6	Supply fabrication and placing of reinforcement steel of high yield strength ribbed bars of various diameters and grade conforming to IS 1786 for reinforced concrete work. The work includes decoiling, straightening, cutting, bending, fabricating, and placing in position, at all levels including lead and lift, according to drawings, specifications etc. complete and supply & use of 18G black annealed binding wire double fold to tie the bars in position, chairs, pins, spacer bars unauthorised laps which will not be measured separately neither for payment nor for reconciliation and providing precast cement/ PVC cover blocks for main reinforcement to ensure specified cover, including all labour charges etc as directed by departmental officers.	6500.00	Kg			
74a	6.4.2	Brick Masonry of 230 mm thick in cement mortar 1:5 (One cement and five sand) in foundations, basement and superstructure walls using second class ground moulded chamber burnt bricks of size 9"x 43/8"x 2 3/4" etc., complete complying with standard specifications and drawings and as directed by departmental Engineers. (Derived from S.I. 163)	10.00	cu.m			
74b		Providing and constructing 110mm thick (Plus or minus 5mm) brick masonry in cement mortar 1:3 for compound wall between piers using second class ground moulded chamber burnt bricks of size 9"x 43/8"x 2 3/4" etc., including supplying and laying 1 No 6mm dia MS bars at every fourth layer including scaffolding, curing, cost of reinforcement etc. all complete as per specifications and drawings as directed by the Engineer in-charge.	250.00	Sq.mt			
75		External and Internal wall Plastering with cement mortar 1:5 (one cement and five sand) 20mm thick with fine river sand for plastering including curing, neat finishing, etc., complete complying with standard specification and as directed by the Departmental officers.	600.00	sq.m			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
76		Providing & fixing Entrance M S gate strictly as per Tender drawings with necessary welding, rivetting, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position all complete: as per the directions of Engineer In Charge and Drawings.	225.00	kg			
77		Supplying and painting the both sides of compound walls with one coat of wall primer and two coats of Acrylic Exterior emulsion (ACE quality of Asian paints or its equivalent) as per manufacturers specifications including preparation of surface, curing the primer coat and including Scaffolding etc., complete in all floors complying with standard specifications (The colour and shade of the paint shall be got approved by the Architect/ Engineer before use).	488.20	sq.m			
78		External Ramp - Supplying and Laying of External ramp with side brick walls and Sand filling 100 mm thick with PCC 1: 4: 8, 100mm thick and RCC 1:1.5: 3 , 100mm Thick with 10mm dia ms rod 200mm c/c.	28.10	sq.m			
SUB-TOTAL OF CIVIL WORKS (A)							
B	PLUMBING & SANITARY WORKS						
	PART-I : SANITARY FITTINGS						
79		Providing and fixing white vitreous china floor mounted water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern model Sleek essence dual of Hindware, including flush pipe, with manually controlled device conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required Hindware Cat No 20044.	20.00	Each			
80		Providing and keeping in stores, shifting to the place of installation, fixing, testing and commissioning of WHITE coloured vitreous china under counter Regular rectangular WASH BASIN with brackets / G.I. rag bolts and nuts painted, 32mm dia brass C.P. waste coupling, (heavy), waste pipe , 15mm dia brass C.P. Angle stop cock with flange, 15mm dia brass C.P. cold water connecting pipe, etc., The work shall include,required extension nipples, cutting / chasing and making good the walls and floors - toilets.	24.00	Each			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
81		Supplying and fixing in position 15 mm dia Brass Chromium Plated Two way bib cock tap with health faucet with 1Meter length flexible hose with necessary CP fixing nuts of approved make conforming to IS specification and quality including cost of shellac, thread, cutting and threading wherever necessary etc., complete complying with standard specification and as directed by the Departmental officers. (Taps should be got approved by the Executive Engineer before use on the works)	24.00	Each			
82		Providing and keeping in stores, shifting to the place of installation, fixing, testing and commissioning of WHITE coloured vitreous china under counter Urinal with brackets / G.I. rag bolts and nuts painted, 32mm dia brass C.P. waste coupling, (heavy) 32mm dia brass C.P. bottle trap, 15mm dia brass C.P. Angle stop cock with flange, 15mm dia brass C.P. cold water connecting pipe, waste pipe etc., The work shall include,required extension nipples, cutting / chasing and making good the walls and floors - toilets.	4.00	Each			
83		Supplying and fixing Paryware/ Jaguar make good quality brass CP soap tray of size 150 x 100mmx50mm depth including cost of teak wood plugs, brass screws, etc., complete complying with standard specifications. (The soap tray should be got approved by Executive Engineer before use on works).	23.00	Each			
84		Supplying and fixing Chromium plated towel rail of approved make & brand 600 mm long and 20mm dia with chromium plated concealed brackets including cost of teak wood plug and CP Secrews etc., Complete complying with standard specification and as dircted by the Departmental officers.	13.00	Each			
85		Providing and keeping in stores, shifting to the place of installation, fixing, testing and commissioning of stainless steel sink with single bowl with drain board supported by C.I./M.S. painted white brackets, C.P. cast brass bottle trap with extension piece, rubber adaptor, wall flange, union, C.P. brass chain rubber plug, including cutting and making good the wall/floors wherever required.	1.00	Each			
		PART - II SOIL, WASTE AND VENT PIPE LINES					

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
86		Supply and fixing in position best quality PVC IS 4985 - CLASS- III - 6 Kg/Sqcm -Soil/ waste pipes of various size with approved quality and variety of various size confirming having ISI mark and providing leak proof joints including fixing to the wall with special PVC /MS clamps, etc., and making connection to all sanitary fittings, wherever necessary and making chipping good portion to the original condition, complying with standard specification etc., complete.					
a		40mm dia. 6kg class PVC pipes.	36.00	Rmt			
b		50mm dia. 6kg class PVC pipes.	4.00	Rmt			
c		75mm dia. 6kg class PVC pipes.	63.88	Rmt			
d		110mm dia. 6kg class pipes.	41.60	Rmt			
87		Supplying and fixing in position Supreme/ Prince make PVC material Nahini / Floor trap with PVC grating / PVC nahini / Floor Trap with PVC Grating type of size 100 x 75 / 75 x 50 mm with best quality gratings of approved brand fixed over a bed of brick jelly lime concrete 1;2;5(One lime two sand and five aggregate) brick jelly 40mm and finishing with cm 1;3(One cement and three sand) including dismantling masonry wherever found necessary and making good to the original condition and giving connections to the cast iron pipe etc, complete complying with standard specification and as directed by the departmental Officers.	40.00	Each			
88		Supply and fixing in position best quality PVC IS 4985 - CLASS-II - 6 Kg/Sqcm -Rain water pipes of various size having ISI mark and providing leak proof joints with such as Bend, Tee Junction, door etc.,of approved qualityincluding fixing,Scaffolding to the wall with special PVC /MS clamps, etc., and making connection to all sanitary fittings, wherever necessary and making chipping good to the original condition, complying with standard specification etc.,complete.					
a		75mm dia. 6kg class PVC pipes.	3.60	Rmt			
b		110mm dia. 6kg class pipes.	36.00	Rmt			
89		Supplying and fixing in position of the following dia PVC rain water gratings for rain water pipes ,of approved quality and variety of various size confirming to ISS and including necessary cutting and fixing and giving connection to PVC pipes etc., complete complying with standard specification and as directed by the Departmental Officer.					

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
a		75mm dia. 6kg class PVC pipes.	1.00	Each			
b		110mm dia. 6kg class pipes.	5.00	Each			
90		Supplying and fixing in position of the following dia PVC specials such as PVC vent Cowl etc.,of approved quality and variety of various size confirming to ISS amend providing leak proof joint etc., including necessary cutting and fixing and giving connection to PVC pipes etc., complete complying with standard specification and as directed by the Departmental Officer.					
a		75mm dia. 6kg class PVC pipes.	6.00	Each			
b		110mm dia. 6kg class pipes.	5.00	Each			
		PART-III - EXTERNAL DRAINAGE					
91		Supply and fixing in position best quality PVC IS 4985 - CLASS- III - 6 Kg/Sqcm -Soil/ waste pipes of various size with approved quality and variety of various size confirming having ISI mark and providing leak proof joints including erection of below ground with excavation and refilling etc., and making connection to Manholes / Gully trap, wherever necessary and making chipping good portion to the original condition, complying with standard specification etc., complete.					
a		160mm dia. 6kg class III-pipes.	60.00	Rmt			
92		Supply, laying and erection of glazed stone ware gully trap (100 x 75 mm) with 100 mm dia, outlet including embedding trap in cement concrete 1:3:6 and constructing chamber of size 300 x 300 mm inside clear in brick masonry 230 mm thick, plaster with water proof cement mortar (1:3) 15 mm thick on both internal and external surfaces inside finished with floating coat of neat cement. The work including excavation to required depth of gully trap and refilling and making good in the surface with Providing and fixing SFRC frame and cover 400 x 400 mm (clear opening) complete complying with std. specification.	5.00	Each			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
93		Supplying and Erection and construction of sewer chambers of required internal dimensions 600x600 upto 0.6 mtr.depth with 230mm brick masonry in C.M.1:5 thk of masonry over bed of 1:2:4 R.C.C. 200 mm thk bove 100 mm thk P.C.C.1;3:6 Cement concrete foundations over sand bed of 100mm thk channelling in 1;2:4 cement concrete, plastering in 1:3 cement mortar for internal and external surface finished with floating coat of neat cement, the work including excavation for required depth of gully trap and refilling and making good in the surface with SFRC cover and frame 600x600mm (clear opening)complete complying with standard specifications etc.,	6.00	Each			
94		Construction of rain water recharge well of 1200mm dia and depth upto 1500mm, in addition 110 dia special blue slotted pipe for bore well.pipe should be laid from bottom of ring well centre to below 1500mm as shown in the drawings, including all types of excavation,occur for pipe, filling of rain water harvesting materials with construction of R.C.C. ring and top 100mm RCC SLAB WITH 450X450mm perforated SFRC manhole and 230mm brick wall in 2'height with below 300mm lengthx100mm thk P.C.C. as per the structural filling the filter media as per drawing.	3.00	Each			
		PART-IV-WATER SUPPLY SYSTEM					-
		INTERNAL CONCEALED WORKS					-
95		Providing, supplying & laying of Chlorinated Poly Vinyl Chloride (CPVC-SDR-11) Pipes conforming to IS 15778 having thermal stability cold water with brass and CPVC fittings like Elbow, Brass Tee, Brass Elbow, Offsets, Tee with clamps @1.00 meters spacing, with jointing of pipes with one step CPVC solvent cement with including Scaffolding & cutting of chase including testing of the joints complete and making good the walls etc. Rate is inclusive of all material labour, transportation, tools & tackles taxes, levies VAT etc all complete as per as per specifications, Concealed work including chase cutting)complete complying with standard specification and as directed by the Departmental Officer.					
a		25 mm nominal (OD) pipes	103.23	Mtrs			
96		EXPOSED PLUMBING WORKS					

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
		Providing, supplying & laying of Chlorinated Poly Vinyl Chloride (CPVC-SDR-11) Pipes conforming to IS 15778 having thermal stability cold water with brass and CPVC fittings like Elbow, Brass Tee, Brass Elbow, Offsets, Tee with clamps @1.00 meters spacing, with jointing of pipes with one step CPVC solvent cement with including Scaffolding & cutting of chase including testing of the joints complete and making good the walls etc. Rate is inclusive of all material labour, transportation, tools & tackles taxes, levies VAT etc all complete as per as per specifications, Exposed work including chase cutting, bracket fixing)complete complying with standard specification and as directed by the Departmental Officer.					
a		20mm nominal(OD) pipes	QRO	Mtrs			
b		25mm nominal(OD) pipes	18.00	Mtrs			
c		32mm nominal(OD) pipes	14.40	Mtrs			
d		40mm nominal(OD) pipes	55.84	Mtrs			
e		50mm nominal(OD) pipes	QRO	Mtrs			
		PART -V- EXTERNAL PLUMBING WORKS					
97		Providing, supplying & laying of Chlorinated Poly Vinyl Chloride (CPVC-SDR-11) Pipes conforming to IS 15778 having thermal stability cold Metro water with brass and CPVC fittings like Elbow, Brass Tee, Brass Elbow, Offsets, Tee with clamps @1.00 meters spacing, with jointing of pipes with one step CPVC solvent cement with including cutting of chase including testing of the joints complete and making good the walls etc. Rate is inclusive of all material labour, transportation, tools & tackles taxes, levies VAT etc all complete as per as per specifications, Concealed work including chase cutting)complete complying with standard specification and as directed by the Departmental Officer.					
a		25 mm nominal (OD) pipes	16.20	Mtrs			
b		32 mm nominal (OD) pipes	33.00	Mtrs			
c		100 mm nominal (OD) pipes	12.00	Mtrs			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
98		Providing, supplying & laying of Chlorinated Poly Vinyl Chloride (CPVC-SPEAR) Handle Valve or Gate valve with CPVC fittings with jointing of pipes with one step CPVC solvent cement with including cutting or chasing including testing of the joint complete and making good the walls etc., Rate is inclusive of all material,tools,and tackels taxes,levels etc., all complete with standard specifications and at directed by the Department Officer for both internal and external water supply arrangements etc.,					
a		20 mm nominal (OD) pipes	1.00	Each			
b		32 mm nominal (OD) pipes	1.00	Each			
c		40 mm nominal (OD) pipes	1.00	Each			
99		Providing, supplying & laying of Gunmetal type Non-Return Valve (NRV) - pressure rating not less than 16 Kg/Sqcm and IS778 with 2 Nos of MTA with jointing material like shellac, thread including testing of the joints complete and making good the walls etc. Rate is inclusive of all material labour, transportation, tools & tackles taxes, levies VAT etc all complete as per as per specifications, complete complying with standard specification and as directed by the Departmental Officer.					
a		20 DIA	1.00	Each			
b		25 DIA	1.00	Each			
c		32 DIA	1.00	Each			
		PART-VI-WATER PUMPS					
100		SINGLE PHASE SUBMERSIBLE PUMP: Supply, Erection testing and commissioning of CRI or Kirloskar or or Equivalent ISI make Single phase Submersible type water pumps 2HP -30Mtrs head with required electrical starter switch set kit with control valves and float switches for water pumping from Borewell to sump & OHT Tank [For Raw water]	1.00	Each			
101		MONO BLOCK PUMP :Supply, Erection testing and commissioning of SUGUNA or V GUARD or equivalent ISI make Single phase MONOBLOCK type water pumps 2HP capacity with required electrical and plumbing connections for water pumping from UG sump to OHT Tank [For Raw water]	1.00	Each			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
		SUB TOTAL OF PLUMBING AND SANITARY WORKS(B)					
C		ELECTRICAL WORKS					
	2.40	MCCB, MCB & DB'S					
102.0		Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).					
a	2.4.1	4 way (4 + 12), Double door	1.00	EACH			
b	2.4.2	6 way (4 + 18), Double door	4.00	EACH			
103.0	2.50	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned 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	2.5.1	4 way (4 + 12), Double door	2.00	EACH			
104.0		Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder Coated including earthing etc. as required. (But without MCB/RCCB/Isolator)					
a	2.3.3	12 way, Double door	2.00	EACH			
105.0	2.10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a	2.10.1	Single pole	128.00	EACH			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
b	2.10.3	Double pole	20.00	EACH			
c	2.10.4	Triple pole	4.00	EACH			
d	2.10.5	Triple pole and neutral	7.00	EACH			
106.0		Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30/100 mA in the existing MCB DB complete with connections, testing and commissioning etc. As required.					
a		63 A	7.00	EACH			
107.0	2.20	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.					
a	2.2.13	100 A, 30 kA,TPMCCB	R.O	EACH			
108.0	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit,with 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..					
a	1.10.1	Group A (residential quarters type 1-3)	0.00	EACH			
b	1.10.2	Group B (residential quarters-type-iv & barracks)	0.00	EACH			
c	1.10.3	Group C (Non residential)	300.00	EACH			
109.0	1.11	Wiring for twin control light point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.	10.00	EACH			
110.0		INDUSTRIAL TYPE SOCKETS					

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
a	2.18	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 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.	4.00	EACH			
b		Supplying and fixing 30 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 A, "C" curve, TPMCB, 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.	4.00	EACH			
111.0	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 non residential buildings).	50.00	EACH			
112.0	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.	20.00	EACH			
113.0	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required					
a	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	2000.00	Mtrs			
b	1.14.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	600.00	Mtrs			
c	1.14.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	60.00	Mtrs			
d	1.14.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	50.00	Mtrs			
e	1.14.9	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	45.00	Mtrs			
f	1.14.10	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	50.00	Mtrs			
g	1.14.11	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	50.00	Mtrs			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
114.0	1.18	Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.					
a	1.18.3	6 Pair - CAT6	1000.00	Mtrs			
115.0	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.	100.00	Mtrs			
116.0	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
a	1.21.1	20 mm	150.00	Mtrs			
b	1.21.2	25 mm	300.00	Mtrs			
c	1.21.3	32 mm	150.00	Mtrs			
117.0	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required..					
a	1.24.3	15/16 amp switch	40.00	EACH			
b	1.24.4	3 pin 5/6 amp socket outlet	120.00	EACH			
c	1.24.6	Telephone/data socket outlet	60.00	EACH			
d	1.24.7	TV antenna socket outlet	4.00	EACH			
e	1.24.8	Bell push	2.00	EACH			
118.0		Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	50.00	EACH			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
119.0	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	20.00	EACH			
120.0	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.					
a	1.27.1	1 or 2 Module (75mmX75mm)	60.00	EACH			
b	1.27.2	3 Module (100mmX75mm)	100.00	EACH			
c	1.27.3	4 Module (125mmX75mm)	40.00	EACH			
d	1.27.4	6 Module (200mmX75mm)	40.00	EACH			
e	1.27.5	8 Module (125mmX125mm)	30.00	EACH			
121.0	1.28	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.					
a	1.28.1	1 or 2 Module	60.00	EACH			
b	1.28.2	3 Module	100.00	EACH			
c	1.28.3	4 Module	40.00	EACH			
d	1.28.4	6 Module	40.00	EACH			
e	1.28.5	8 Module	30.00	EACH			
		EARTHING WORKS					
122.0	5.12	G I EARTH WIRE: Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	100.00	Mtrs			
123.0	5.40	G I PIPE EARTHING: Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	2.00	EACH			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
124.0	5.60	COPPER PLATE EARTHING: 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 2.7 meter long etc. with charcoal/ coke and salt as required.	RO	EACH			
		CABLE GLANDS & TERMINATIONS					
125.0		Supplying&makingendterminationwithbrasscompressionglandandaluminiumlugsforfollowingsizeofPVCinsulatedandPVCsheathed/XLPEAluminiumconductorcable of 1.1 KV grade as required.					
a	9.1.26	3.5 Core X 95 Sq.mm (45 mm)	2.00	EACH			
b	9.1.34	4 X 25 sq. mm (28mm)	RO	EACH			
c	9.1.33	4 X 16 sq. mm (28mm)	RO	EACH			
d	9.1.32	4 X10 sq. mm (25mm)	10.00	EACH			
		NON SCHEDULE ITEMS FOR ELECTRICAL AND SERVICES WORK					
		LT, 1100V GRADE PVC / XLPE Armoured UnderGrounds Cables.					
126.0		Supply and fixing of 3.5 CORE - 95 Sqmm PVC covered aluminium armoured LT Under Ground (UG) cable in a trench to be excavated at a depth of 0.75metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.	75.00	Mtrs			
127.0		Supply and Clamping of 4Core - 25 Sqmm PVC LT Under ground (UG) armoured LT cable on Post or on Wall with MS Clamp.	RO	Mtrs			
128.0		Supply and fixing of 4 Core - 16 Sqmm PVC armoured LT UG cable in a trench to be excavated at a depth of 0.75metre putting 0.15 mt.Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.	RO	Mtrs			
129.0		Supply and fixing of 4core - 10 Sq mm PVC armoured LT UG cable in a trench to be excavated at a depth of 0.75metre putting 0.15 mt.Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.	100.00	Mtrs			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
		LIGHT & FAN FITTINGS					
130.0		2ft x 2ft LED Recess/ Surface mounted Fittings: Supply, Installation, Testing and Commissioning of Recess/surface mount type 36 Watt - cool white 2 By 2 High efficiency recessed LED luminaire of WIPRO/ PHILIPS/ BAJAJ makes and made of CRCA powder coated body with high efficiency milky diffuser suitable for 600 X 600 modular ceiling / POP ceiling working input range 145- 265V AC 50 Hz PF > 0.9 and THD < 10 % and 4.5 KV surge withstanding capacity and design life > 35000 Hrs - Make - Philips - Model - RC308B / Elenserve - Model - ELFG39SQI /Crompton - Model - LCTLR-36-FO-CDL/DD	4.00	EACH			
131.0		LED TUBE LIGHTS-22 WATT CAPACITY: Supply, Installation, Testing and Commissioning of 22 Watt LED tube lights extruded aluminium body poly carbonate milky diffuser Long-life electrical driver to deliver optimal performance. voltage window 145-265 V AC 50 Hz and maintain PF > 0.9 Surge up to 2 kV , cool white 5000 K to 6500 K with CRI > 0.8 Make - Philips - Model -Endura LED Batten - BN108C / Elenserve - Model - ELBT40	75.00	EACH			
132.0		CEILING MOUNTED BULB HOLEDR: Supply, Installation, Testing and Commissioning of Ceiling mounted modular type bulb holders of Havells/ Anchor Roma make suitable for fixing LED bulbs /CFL lamps with necessary wiring connections, PVC cover plate.	90.00	EACH			
133.0		WALL MOUNTED BULB HOLEDR: Supply, Installation, Testing and Commissioning of wall mounted modular type bulb holders (angle holder) of Havells/ Anchor Roma make suitable for fixing LED bulbs /CFL lamps with necessary wiring connections, PVC cover plate.	25.00	EACH			
134.0		Supply & Fixing of LED mirror light - 9 W warm white 2700K - 3000 K - , Led efficacy - > 100 lumes/watt with inbuilt driver input voltage range 145-265 V AC PF > 0.9 , base body extruded aluminium with polycarbonate milky diffuser (ELMR09) @ Mirror.	3.00	EACH			
135.0		Supply and fixing of 30watt LED street light fitting with 19mmdia GI pipe (class B) with 1 no of 19mm dia GI bend completed on existing post & wall with on MS plate with PVC unsheathed cu leads with clamp and aluminium painting with led lamp.	10.00	EACH			
136.0		Supply and fixing of wall mounted bulkhead fitting with 11 Watt LED bulb, glass cover, GI box fixed on exterior walls.	10.00	EACH			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
137.0		Supply and erection of 65mm dia GI pipe (Class B)of 4 mtr Length with 300mmX300mmX 6mm MS base plate Duly Welded at the bottom and with Concreting and construction on Masonary pedestal with Ms box of 30cm x 20cm x 10cm with angle iron frame work with lock and key arrangements and with supply and fixing post top latern fitting and necessary accessories with complete set. suitable for mounting and Supply and Fixing 1 no of 25W LED street light fitting,including The pole should be provided 6A SPMCB housed in DP Box,4 way 16A terminal block,SMC box for loop in and loop out cable arrangements,SMC box for loop in and loop out cable entry and exit in GI pipe of 2.5" dia fitted in pole with clamps.	5.00	EACH			
138.0		Providing & Fixing of 1200mm sweep 5 star rated - Group A ceiling fan of USHA/ Crompton greaves/ Havells or equivalent ISI makes to be fixed on existing / erected clamps with necessary down rods and with all fixing accessories etc..	50.00	EACH			
139.0		Supply Installation Testing Commissioning of 12"dia Exhaust Fan of Crompton Greaves/ bajaj or equivalent ISI make with all Accessories etc as required.	15.00	EACH			
140.0		Supplying and Fixing of 18" dia wall mounted Fan of Crompton greaves/ USHA /Havells make.	5.00	EACH			
		LT SERVICE - PANEL BOARD					
141.0		MAIN SWITCH					
		Supply and erection of 125A TPN FSU with HRC fuses in sheet steel enclosure on wall mounting angle iron frame work and with suitable cable box at top and bottom for receiving 1 No.3½C 95 sqmm AYFY cable and 1 No. 4R of 25 sqmm unarmoured copper wires as required near the TNEB meter.	1.00	EACH			
142.0		MAIN METER BOARD 3 PHASE					

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
		Supply, installation, testing and commissioning of cubicle floor/ wall mounting type, Main meter Board with copper bus-bars, bottom and top entry cable chambers for incoming & outgoing cables, dust and vermin proof, fabricated with 16 SWG CRCA sheets with powder coated. Bus-bars shall be electrolytic quality copper with pvc heat shrinkable colour coded sleeves and supported with SMC/DMC at adequate interval. The panel shall be provided with the following:- 3NO OF 200A I/C Fuse carries With Netural link including of Hylam Sheet,1No of 3x125A fuse carrier,1 No of Metering Provisions,1 no 125A TPN FSU, 1 No of Netural Link and Dobule Side Panel Earthing, 10 sq,mm Wires for all Services. and O/G with suitable copper bus bar (33x6mm) 1 set of phase indicating lamp with protection fuses,	1.00	EACH			
143.0		MAIN LT PANEL BOARD					
		Supply, installation, testing and commissioning of cubicle floor mounting type, Main LT Panel Board with copper bus-bars, bottom and top entry cable chambers for incoming & outgoing cables, dust and vermin proof, fabricated with 16 SWG CRCA sheets with powder coated. Bus-bars shall be electrolytic quality copper with pvc heat shrinkable colour coded sleeves and supported with SMC/DMC at adequate interval. The panel shall be provided with the following:-IINCOMER:1 No 125A TP&N 16 KA MCCB with rotary handle operating mechanism,1 set of phase indicating lamp with protection fuses,1 No 0-500V 96x96mm electronics voltmeter with selector switch,1 No 0-150A 96x96mm electronics ammeter with selector switch3 Nos 120/5A 10VA CL:1.0 CT for ammeter.OUTGOING FEEDERS:10 Nos. 63 A,10KA, FP MCB BUS BAR RATING: PH & Neutral : 1R 32 x 6 mm Aluminium Flat, & E : 25 x 3 mm Aluminium Flat.	1.00	EACH			
		SUB TOTAL OF ELECTRICAL WORKS (C)					
D		INTERNAL ROADS & PATHWAYS					
144		Preparation and consolidation of sub grade with power road roller of 8to 12 tonne capacity after excavating earth to an average of 22 5 cm depth,dressing to camber and consolidating with road roller including making good the undulations etc. and rerolling the sub grade and disposal of surplus earth lead upto 50 metres.	400	SMT			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
145		Providing, spreading and compacting stone aggregate of assorted sizes ranging from 40 mm to 90 mm including spreading in uniform thickness, hand picking, rolling with 3 wheeled road/ vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate watering and compacting to the required density.	130	CMT			
146		KERB LINING USING PRE-CAST RCC READY MADE SOLID BLOCKS : Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete, having atleast 18 inches length 12 inches height with lower portion thickness of 6 inches and top portion thickness of 4 inches, fixed in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not be more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	250	RMT			-
147		Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	250	SMT			-
148		Providing and fixing Designer concrete external paver Tiles of 1" thickness with approved design, size/shape, colour and of ULTRA/ DURACRETE or equivalent make on prepared floor surface using Cement mortar 1:4 proportion and cement slurry, joints finishing, curing etc for specified areas near entrance porch all complete.	50	SMT			

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
149		Providing and making rain water open type trench/drain having 2 ft bottom width, 3 ft top width, 2 ft average clear depth by necessary excavation and spreading the earth at the low lying area within the plot and providing 3" thick hammer dressed unpolished grey granite slabs for bottom and sides lining. The side slabs joints shall be finished with cement mortar 1:4 proportion. The payment is per running metre of the drain created.	120	RMT			
149		Providing and Fixing 50mm minimum thickness Perforated RCC precast cover slabs of required width and length on drains as per approved sample and directions of Engineer incharge.	120	SMT			
150		Providing and laying of 250mm dia RCC hume pipe below the Road, from building to compound etc to route any services, cable etc as per direction of engineer incharge.	40	RMT			
		SUB TOTAL OF INTERNAL ROADS & PATHWAYS (D)					
SUMMARY							
A	Civil Works						
B	Plumbing & Sanitary works						
C	Electrical works						
D	INTERNAL ROADS & PATHWAYS						
	GRAND TOTAL OF ALL WORKS EXCLUDING GST						