

ARCHITECT / CONSULTANT
SANDEEP GOVALKAR DESIGN ASSOCIATES
CLIENT: CENTRAL BANK OF INDIA.
THE PROPOSED CIVIL CONSTRUCTION AND SANITARY / PLUMBING WORKS OF RSETI OF CENTRAL BANK OF INDIA, AT NAGAON, DIST: DHULE.

BILL OF QUANTITIES

SCHEDULE OF ITEMS- CIVIL WORKS					
No	Description	Unit	Qty	Rate (Rs)	Amount (Rs)
A	CIVIL WORKS				
1	Excavation and backfilling (on completion of works) in all kinds of soil, wet or dry (such as yellow murrum, hard murrum / gravel or mixture of any kind, including soft rock etc.), in loose and slushy condition, to the required level for foundations, trenches, rafts, plinths, plinth area levelling, etc.; to required depth from existing ground level including disposing off surplus excavated material within the site as per direction of the ARCHITECT/CLIENT or outside at approved location of local authority as per their rules / norms; if required, bailing/pumping out water to keep the site dry at all times until completion of backfilling; making temporary stepping / sloping, shoring with planking, strutting, sectioning, trimming, dressing of sides, levelling or grading, cleaning, removing and excavating loose pockets and consolidating them by backfilling as directed etc. all complete to the satisfaction of the ARCHITECT/CLIENT.				
	a) Up to 1.5m depth	Cum	345		
	b) Below 1.5m up to 3.0m depth	Cum	275		
	c) Below 3.0m depth	Cum	25		
2	Excavation in hard rock / boulders (more than 1/2 Cu m in size) by chiselling, wedging, drilling etc (include obtaining permission of Govt. authority and paying fees/royalty if any). to required level for foundation, trenches, rafts, plinths, levelling area etc. to required depth from designated ground level; including disposing off excavated material within site at approved location or outside plot at locations as designated by local authority & as per their rules/norms; if required bailing / pumping out of water to keep site dry at all times until completion of backfilling; shoring, strutting, stepping, dressing, grading, cleaning, removing and excavating loose pockets and consolidating them by backfiring as directed by the ARCHITECT/CLIENT etc. all complete as detailed in specification and conforming to safety rules of authority from time to time.				
	a) Up to 1.5m depth	Cum	10		
	b) Below 1.5m up to 3.0m depth	Cum	4		
3	Back filling and banking with approved good quality earth in plinths, area leveling etc. in layers each not exceeding 200mm in depth, breaking clods, watering, compacting each layer with vibratory compactor and at inaccessible places with wooden/steel rammers to achieve 95% proctor density at optimum moisture content; dressing up embankments; if required, bailing/pumping out of water to keep site dry while back filling; costs includes conveyance of all materials, labour, machinery etc. complete as per direction of the ARCHITECT/CLIENT to his entire satisfaction.				
	a) With selected excavated earth available within plot.	Cum	125		
	b) Providing and filling with approved earth brought from outside.	Cum	45		

4	Providing and doing 230mm thick dry rubble soling, voids filled with stone chips and screened with murrum/sand including compaction with mechanical vibratory compactor complete to satisfaction of ARCHITECT/CLIENT.	Sqm	295		
5	Providing and laying Levelling Course P.C.C. 1:3:6 (min.150mm thk) includes 40mm thk damp proof course in plinth, foundation, coping, plinth protection etc including necessary shuttering, curing, vibrating, compacting etc, at all heights and locations. The P.C.C. may be casted in panels as desired by the Architect/ Consultant etc complete.	Cum	75.00		
6	Providing and laying mix design concrete of M25 Grade in footings, foundation, Columns, Beams, Slab, lintles, staircase waist slab, canopies, encasing steel structure, chajjas, bands, purdies (staircase & chajjas drop purdies), fins, coping etc, at all heights including necessary shuttering, scaffolding, centering, propping, curing, vibrating and compacting etc complete.	Cum	275.00		
7	Providing, straightening, cutting, bending and binding in position reinforcement bars, to correct shape and size as per detailed drawings, specifications, preparing and getting approved bar-bending schedules for all reinforced concrete work such as footings, walls, columns / stub columns, plinth beams, slabs, rafts etc.; with correct size PVC cover blocks or approved concrete cover blocks of same grade as of concrete and galvanized binding wire of 18 gauge; where required carryout dewatering, provide required labour and machines/equipments/tools/tackles for handling, shifting, bending, binding, etc. all complete to the satisfaction of the ARCHITECT/ CLIENT at all depths, height, lift & leads. No wastage shall be considered for the payment.	MT	44.00		
	a) TMT bars (high yield strength deformed bars - Fe 500 conforming to IS 1786)				
8	Providing and constructing 230mm or more thick masonry in sub and superstructure with locally available approved quality bricks having minimum crushing strength 35 Kg/Sq. cm and water absorption maximum 20% in cement sand mortar CM 1:6 (1 cement : 6 Sand) mixed with approved non-shrinking compound as per manufacturer's instruction in specified courses of approved bond and including raking out joints, curing, doing independent double legged scaffolding, all complete as per specifications etc. at all heights, depths and leads, dewatering area where required complete as per specifications etc. all as directed by ARCHITECT/CLIENT to his entire satisfaction.	Cum	195.00		

9	Providing and constructing half brick masonry with locally available approved quality bricks having minimum crushing strength 35 Kg/Sq. cm and maximum water absorption 20%, in cement mortar CM 1:4 (1 cement : 4 Sand) mixed with approved non-shrinking compound as per manufacturer's instruction in specified courses of approved bond and including providing RCC patli beam of 115mm x 100 mm at every 1.00m C/C with 2 nos. 8 mm dia Tor bars and 6 mm dia links at 300 c/c in cement concrete of mix M 20, required formwork complete with raking out joints, curing, doing independent double legged scaffolding as per specifications etc. at all lifts, heights and leads as directed by the ARCHITECT/CLIENT to his entire satisfaction. (Patli beam including reinforcement is part of the item)	Sqm	450.00		
10	Providing and constructing 150mm thick siporex block masonry in superstructure with approved factory made blocks having minimum crushing strength 100 Kg/Sq. cm and maximum water absorption 10%, in cement mortar mix ratio CM 1:5 (1 cement: 5 Sand) mixed with approved non-shrinking compound, doing masonry in specified courses, complete with raking out joints, curing, doing independent double legged scaffolding, complete as per specifications etc. at all heights, depths and leads and as directed by ARCHITECT/CLIENT to his entire satisfaction.	Sqm	150.00		
11	Providing and laying external sand cement plaster of av 20 mm thk in two coats at all heights with first coat to be of approx 12mm thk in 1:5 sand (fine) cement mix, and the second coat to of approx 6mm thk in 1:4 sand (fine) cement mix, including necessary scaffolding, curing roughening the first coat to receive second coat of plaster etc, providing approved water proofing compound approx 1kg to one bag of cement and adding polypropylene fibre of approved make to prevent shrinkage cracks as per manufacturers specifications complete.	Sqm	775.00		
12	Providing and laying internal sand cement plaster av 12 mm thk in 1:5 sand (fine) cement mix on walls including necessary scaffolding curing etc adding polypropylene fibre of approved quality in desired quantity per bag of cement as per manufacturers specifications complete.	Sqm	1150.00		
13	Providing and laying av. 6mm thk 1:5 sand (fine) cement plaster on ceiling including necessary scaffolding, curing etc complete.	Sqm	755.00		
14	Providing and laying 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 not less than 12mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc ., complete				
a	Size of tile 600 x 600mm	Sqm	495.00		
15	Providing and laying 600 x 600mm vitrified tile skirting 100 mm high in vitrified tile of approved colour and make in 1:4 cement and sand (fine) mix in level with the wall plaster complete.	Rmt	335.00		

16	Providing and laying 25mm thick machine cut, machine polished approved Kota stone flooring in pattern and size as detailed in drawing or as directed by the ARCHITECT/ CLIENT. Stone to be bedded in cement sand mortar mix ratio 1:6 (1 cement : 6 sand) minimum 20 mm thick including cleaning and preparing the surface for bedding, spreading neat cement slurry by using minimum cement about 2 kg/sqm prior to bedding and spreading cement paste using minimum cement about 4.5 kg/sqm over bedding, joints to be cleaned and grouted with matching colour approved quality readymade grout, curing, cleaning, etc. to required line, level, etc. all complete at all heights and leads to the entire satisfaction of the ARCHITECT/CLIENT. (Location : Kitchen, Store ,Staircase) .	Sqm	75.00		
17	Providing and fixing about 100mm high approved Kota stone skirting, machine cut as detailed in drawing. Stone fixed by approved adhesive (Bal or Laticrete or equivalent approved) on back to correct line, level and plumb. Joints are well cleaned grouted with matching colour approved quality readymade grout, curing, cleaned and where specified or shown in drawing exposed edge of stone rounded / chamfered and polished etc. complete to the entire satisfaction of the ARCHITECT/CLIENT. (Location : Kitchen, Store ,Staircase).	Rmt	120.00		
18	Providing and fixing about 300mm wide and 25mm thick approved Kota stone treads in one piece or as directed to full length of step and machine cut, machine polished. Treads to be rounded at front and all exposed edges machine polished. Further treads to have 3 nos. 3mm x 3mm deep grooves on top at front or as detailed in drawing. Treads to be bedded in cement mortar minimum 20 mm thick mix ratio 1:6 (1 cement : 6 sand) including preparing and cleaning surfaces, spreading cement slurry using minimum cement 2 kg/sqm over prepared surface and 4.5 kg/sq m over bedding, joints to be cleaned and grouted with matching colour approved readymade grout, curing, cleaning, polishing (machine/hand polishing again if required by ARCHITECT/CLIENT) all complete at all heights and leads to the approval of the ARCHITECT/CLIENT.	Rmt	350.00		
19	Providing and fixing 19mm thick and about 158mm high approved Kota stone risers machine cut and machine polished in one piece or as directed, to full length of step, stone fixed by approved adhesive on back, to correct line, level and plumb. Joints are well cleaned grouted with matching colour approved readymade grout, curing, mirror polishing (machine/hand polishing again if required by ARCHITECT/CLIENT) , cleaned and where specified or shown in drawing exposed edge of stone rounded / chamfered and polished all complete to the satisfaction of the ARCHITECT/CLIENT.	Rmt	380.00		
20	Providing & laying platform of 675mm depth(clear) for Kitchen area 700mm to 800 mm ht(top)above ffl. Of approved granite with 100 mm thk champhered and machine polished edge skirting back splash. It shall be supported on side walls, marble supports as required, rest on marble base & cement mortar as shown in the drg.rate shall include the profile cutting and fixing of undercounter s.s.sink and polishing the exposed edges of granite. A 100 mm granite facia shall be provided below the chamfered edge.	Rmt	4.00		

21	Supplying and fixing 16mm-18mm thick machine polished granite slab flooring of approved colour and approved texture in 1:4 cement mortar bedding of average 25 mm thick in proper line and level including cement slurry with required slope for flooring and filling the joints with roff/balendura make joint filling compound of the same shade of the granite. The rate includes costs of all materials, equipments, labour charges, curing, rubbing, washing, cleaning the surface etc. Complete as per instructions of banks engineer / architect. Etc. Complete.(Location: Entrance)	Sqm	15.00		
22	Providing and fixing Green Marble of 18mm thick mirror polished and machine cut as per requirement of approximate width of 270mm to 300 mm for window sills/frame in stepped form with cement mortar 1:4 (1 cement : 4coarse sand) and including jointing with matching cement slurry, rubbing, curing, molding and polishing to edges to give a gloss finish etc. complete. The rate includes rounding, champhering and mirror polishing of edges of marble etc. complete.	Rmt	600.00		
23	Providing and fixing 1st quality Ceramic glazed tiles of size 300 x 600 conforming to IS : 15622 (Thickness specified by the manufacturer) of approved make in all colours of any size as approved by Engineer in Charge, in wall tiles/dados over 12mm thick bed of cement Mortar 1:3 (1 Cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sq.m inclding pointing in white cement mixed with pigment of matching shade complete.	Sqm	260.00		
	The work includes holes/cutouts may have to be made for water taps etc at no extra costs.				
24	Providing and laying anti skid ceramic tiles in flooring of approximate size 300 x 300 mm with 1:4 cement sand mix, in slope or as directed including filling the joints with white cement (coloured pigment should be added in case of coloured tiles), and cleaning the same with dilute acid complete.				
	The work includes holes/cutouts may have to be made for nahani traps etc at no extra costs.	Sqm	115.00		
25	Providing & fixing approved green marble finish urinal partition as per shape & profile of size 2'6" X 1'-9" inclusive of making jarries in the wall, fixing it with cream of cement, supporting till set in position, full round edge moulding,both side polishing etc. complete.	Nos.	4.00		
26	Providing & fixing aluminium sliding bronze anodize Windows made out of approved quality Medium duty aluminium sections for shutters & frame, with 6mm thick clear float glass fixed to the shutters using EPDM gaskets. The sliding shutters to have plastic rollers of approved quality and the shutter ends to have required brushings for proper sealing; The aluminium work shall bronze anodised after due cleaning of approved shade & make and necessary locking arrangement etc. complete.	Sqm	60.00		

27	Providing and fixing approved quality adjustable, lockable louvered window in aluminum sections fixed on aluminum sub frame of approx weight 0.43 kg/m, including fixing aluminum angle 20 x 20mm fixed on bottom rail, providing approx 8mm thk opaque 'bajri glass' with edges rounded of width not less than 100 mm, all aluminum sections are to be anodised of approved colour not less than 13 microns complete.	Sqm	9.00		
28	Providing, fabricating and fixing m.s.grill made out of 10mm x 10mm square section as per the shown in dvetail drawing along with 25 x 5mm thk m.s. flat frame for side border fixed on green marble frame finish with including scaffolding, two coats of enamel paint over a coat of Zinc Oxide steel primer complete. etc. Complete as per instructions of architect / bank.	Sqm	70.00		
29	Providing, fabricating and fixing in position MS grill collapsible channel gate etc. of approved design made out of MS flats, squares bars, rounds bars, angles, tees etc. and anchoring it in walls with bolts, making manhole covers etc. including two coats of enamel paint over a coat of Zinc Oxide steel primer complete	Sqm	25.00		
30	Providing and fixing in position Flush Door Shutters on wooden door frame of thickness using approved quality seasoned Sal or equivalent approved wood made in design, shape and profile size as per drawing. The over all sectional size of frame shall be about 125 x 75mm with horns 75 mm beyond frame including fixing in position with 6 nos. M.S holdfasts anchored in 1:2:4 cement concrete of approximate size 200 x 200 x 150mm, making arrangements for fixing aldrop, tower bolts, slip way (tadi) in the frame. The frame is finished with two or more coat of french polish after preparing surface complete.				
	The door shutter shall be 35 mm thk approved quality and make MR Grade Flush Door provided 6/8mm thick TW lipping on all edges. The door shall have a viewing glass of 6 mm thk approx size of 150mm x 300mm. The door shall be finished internally & externally with 1.00 mm thk laminate in desired shades (one or more) and design as per sample approved. Each door shutter will be provided with 125X30 mm 4 Nos SS butt hinges, tower bolts, SS handle with 200 mm long SS Aldrop, door stopper etc complete.	Sqm	15.00		
31	Providing and fixing in position Flush Door Shutters on wooden door frames using approved quality seasoned Sal or equivalent approved wood made in design, shape and profile size as per drawing. The over all sectional size of frame shall be about 125 x 75mm fixed in position with 6 nos. M.S holdfasts anchored in 1:2:4 cement concrete of approximate size 200 x 200 x 150mm, providing and fixing M.s. tie / flat at the base of frame, making arrangements for fixing aldrop, tower bolts, slip way (tadi) in the frame. The frame is finished with two or more coat of french polish before preparing surface complete.				

	The door shutter shall be 35 mm thk approved quality and make MR Grade Flush Door provided 6/8mm thick TW lipping on all edges and 8mm thk glass . viewing pane of approx 0.30 sqm fixed with TW beading as per approved design given by architect. The edge will have wooden moulding polished in desired coat of french polish or enamel painted. The door shall be finished internally & externally with 1.00 mm thk laminate in desired shades (one or more) and design as per sample approved. Each door shutter will be provided with 125X30 mm 4 Nos SS butt hinges, tower bolts, SS handle with 300 mm long SS Aldrop, door stopper etc complete.	Sqm	40.00		
32	Main Entrance Door - double shutter panelled door with heavy duty anodised Aluminium frame having fixed glazing as mentioned below, 12mm thk toughned glass panels fixed in aluminium sections 1.72 kg/mt with 3 nos. Aluminium hinges, handles,floor springs, aldrop, door stopper and tower bolts,approved loking system etc..				
	a) Aluminum section weighing approx 2.20kg/m, for frame verticals				
	b) Aluminum section weighing approx 2.06 kg/m for frame head				
	c) Aluminum section weighing approx 1.76 kg/m for shutter vertical				
	d) Aluminum section weighing approx 1.72 kg/m for shutter top & bottom				
	e) Aluminim section weighing approx 0.612 kg/m for vertical interlink				
	Total	Sqm	4.00		
33	Providing and fixing in position water proof, solid FRP Doors of approved quality and design of approx size 700 x 2010 mm x not less than 35mm thk, including providing S.S. baby latch two nos and SS 100 mm long handles complete.	Nos	33.00		
34	Providing and applying external grade Acrylic Emulsion paint of approved make and shade in desired pattern, including preparation of surface applying approved grade exterior Acrylic primer and filling the gaps with water proof material and applying two or more coats of paint to the satisfaction of Architects/ Clients complete.	Sqm	850.00		
35	Providing and applying Oil Bound Distemper of approved shade and make in approved pattern including preparation of surface by applying Birla putty to have the surface in line and level, applying two or more coats paint over a coat of primer to the satisfaction of Architects/ Clients complete.	Sqm	4510.00		

36	Providing and applying approved quality and shade Enamel Paint to MS Railing & laader or as advised by Client/ Architect including cleaning the surface to free loose scales etc. and then applying a coat of steel primer and two or more coats of enamel paint complete.	Sqm	60.00		
37	Providing and laying waterproofing treatment for sunken portion of W.C.'s, Bathroom etc. by applying cement slurry mixed with water proofing cement compound consisting of applying:				
	a) First layer of slurry of cement @ 0.5 kg/sqm with water proofing cement compound @ 0.25 kg/sqm, this layer will be allowed to air cure for approx 4 hrs.				
	b) Second layer of slurry of cement @ 0.25 kg/sqm mixed with approved water proof compound @ 0.125 kg/sqm. This layer will be allowed to air cure for 48 hrs.				
	The waterproofed area will be filled with water and kept for 7 days to insure that the treatment is done in order.				
	c) Laying brick bats with mortar using broken bricks/ brick bats 25 to 115 mm size with 50% of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with approved quality water proofing compound confirming to IS: 2645 and approved by Architect / Client over 20 mm thick layer of cement mortar of mix (1 cement: 5 coarse sand) admixed with approved water proofing compound confirming to Is 2645 and approved by Architect/ Client to required slope and treating similarly the adjoining walls up to 300 mm height including rounding of junctions of walls and slab.				
	The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions , pipes, masonry with approved quality poymer mixed slurry and filling the sunken portion with brick bats complete.	Sqm	55.00		
	Please note: measurement will be taken of the work done including watta and the contractor should give a guarantee of 10 years for the said water proofing work.				
38	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of terraces etc. consisting of the following operations:				
	a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cemnt admixed with approved water proofing compound confirming to Is 2645 and approved by Architect/ Client over RCC slab including adjoining walls upto 300 mm height including cleaning of surface before treatment.				
	b) Laying brick bats with mortar using broken bricks/ brick bats 25 to 115 mm size with 50% of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with approved quality water proofing compound confirming to IS: 2645 and approved by Architect / Client over 20 mm thick layer of cement mortar of mix (1 cement: 5 coarse sand) admixed with approved water proofing compound confirming to Is 2645 and approved by Architect/ Client to required slope and treating similarly the adjoining walls up to 300 mm height including rounding of junctions of walls and slab.				

	c) after two days of proper curing applying second coat of cement slurry using 2.75 kg/sqm of cement admixed approved water proofing compound confirming to IS 2645 and approved by Architect/ Client.				
	d) Finishing the surface with 20mm thick jointless cement mortar of 1:4 (1 cement: 4 coarse sand) admixed with approved waterproofing compound confirming to IS 2645 and approved by Architect / Client.				
	Rate including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel neat cement slurry not less than 10mm and placing broken china mosiac pieces in level complete.				
	e) The whole terrace/ balcony etc so finished shall be filled with water for a minimum period of two weeks for curing and final testing.				
	Average thickness of 150 mm and minimum thickness at rain water out let not less than 65 mm				
	Please note: The contractor should give a guarantee of 10 years for the said water proofing work	Sqm	305.00		
39	CHHAJJA W/P: Providing & laying brick bat coba waterproofing treatment on chajjas top/ Balcony top with 65 mm average thickness with small brick finished with joint less waterproofing layer in CM 1:4 of average 25mm to 30 mm thick finished smooth with cement slurry & marking thin lines in to 300 x 300 mm false squares with minimum 6mm thick cotton line 150mm x 150mm Watta carried along with the wall with throating at the junction of the wall and Watta top curing, cleaning, as directed etc. complete.	Rmt	125.00		
40	S.S. Railing for Entrance area	Rmt	8		
	Providing fixing new (302 grade) s.s. railing for Ramp with hilti anchor fastner & required concrete grouting as directed by architect.				
41	Providing & fixing staircase MS Railing (3'-0" height) made out of 50mm x50mm MS pipe fixed on MS plate vertical supprts, embedded in the RCC, 25mmx25mm MS vertical supports welded to the 40mm x 5mm MS plate and 46mmx 5mm ms plate with 5mm thk PVC handrail etc. complete; all as per detailed drawings & design, also inclusive of painting the MS pipe etc. with two coats of zinc rich primer & three coats of synthetic enamel paint of approved make & shade; all to architects approval etc. complete. (Staircase & Balcony area)	Rmt	40		
42	MS leader with ms railing as per design	Rmt	3		

43	Providing an Anti-termite treatment to Foundation and Plinth				
	Providing and injecting chemical emulsions for pre-construction anti-termite treatment and creating continuous chemical barrier under and all around the column pits, wall trenches, top surfaces of plinth filling, junctions of walls and floors, along the external perimeter of buildings, expansion joints, over the top surface of consolidated earth on which plinth protection is to be laid, surrounding of pipes and conduits etc. complete, in accordance with IS:6313 (Part II). (Plinth area of the building at ground level shall only be measured): Using Chlorpyrifos Emulsifiable 20 % concentrate.				
	Along external wall where apron is not provided using chemical emulsion @ 7.5 liters/ sqm of vertical surface of the sub structure to the depth of 300 mm including excavation of channel along the wall & refilling the same etc complete. With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.				
	Along external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per liner meter including drilling & plugging holes etc. With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.				
	Treatment of soil under the P.C.C. along external wall, using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1:2 cement & coarse sand complete. With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.				
	Treatment at points of contact of wood work by chemical emulsion chlorpyrifos/ lindane (in oil or kerosene based solution) @ 0.5 liters per hole by drilling 6 mm dia holes at downward angle of 45% at 200 mm c/c and sealing the same complete.				
	<u>(A)Plinth area ground floor</u>				
	RSETI	Sqm	290.00		
44	MS SAFETY DOOR FOR TERRACE ENTRY	Sqm	2.00		
	Providing and fixing 40mm x 20mm x 19 gauge ms square pipe SH grade. The frame panel shall be filled with 3mm thk ms plate. The metal door shutter to be fixed with locking systems, MS hinges to the door frame made out of 50mm x 50mm x 5mm MS angle along with the MS holdfastner embeded in the existing brick work. The work including proper welding, grinding, one coat of yellow oxide primer & 2 coat of oil paint on both sides etc. as directed by bank/architect.complete.				
45	Providing, fabricating and fixing in position MS grill collapsible channel gate etc. of approved design made out of MS flats, squares bars, rounds bars, angles, tees etc. and anchoring it in walls with bolts, making manhole covers etc. including two coats of enamel paint over a coat of Zinc Oxide steel primer complete	Rmt	8		
		Total of civil works (A)			

B	SANITARY, PLUMBING & DRAINAGE				
1	Providing and fixing in position Chlorinated Polyvinyl Chloride (CPVC) pipes externally & Internally having thermal stability for hot & cold water supply including all CPVC brass threaded fittings such as 'tees, bends, angles, reducers, unions etc and fixing the pipes on metal clamps away from the wall at 1.00 m c/c including joining the pipes as per manufacturers specification with one step CPVC Solvent /solvent cement and testing the joints complete as per directed, complete.				
A	a) 12 mm nominal outer diameter pipe	Rmt	45.00		
	a) 15 mm nominal outer diameter pipe	Rmt	25.00		
	External Pipes				
B	a) 25 mm nominal outer diameter pipe	Rmt	40.00		
	b) 32 mm nominal outer diameter pipe	Rmt	20.00		
	c) 50 mm nominal outer diameter pipe	Rmt	20.00		
2	Providing and fixing in position of Bib Cock of approved make (make: Essco, Seiko, Goldline/Topson) including all fittings and fixturers complete.	Nos	25.00		
3	Providing and fixing in position of Stop Cock of approved make viz (make: Essco, Seiko, Goldline/Topson) including all fittings and fixturers complete.	Nos	14.00		
4	Providing and fixing ISI marked gun metal valve with C.I. wheel of approved quality (screwed end) and make complete. (Zoloto or Kirloskar valve)				
	a) 50mm nominal bore	Nos	4.00		
	b) 32 mm nominal bore	Nos	4.00		
5	Providing and fixing ISI marked non return valve of approved quality complete. (Zoloto or Kirloskar valve)	Nos	4.00		
6	Providing and fixing in position long neck Bib Cock for kitchen etc of approved make viz (Essco, Seiko, Goldline/Topson) including all fittings and fixturers complete.	Nos	2.00		
7	Providing and fixing in position Wash Hand Basin , wall hung of white colour of approx size 440 mm x 550mm including providing CP Brass Pillar Cock, Bottle Trap, Stop Cock, PVC Connection, Base Coupling etc. of approved quality and make. Rate to include suitable MS bracket including 40mm dia connection GI pipe upto nahani trap concealed in wall of approved (make: Simpolo, Soncera, Cera) complete.	Nos	17.00		
8	P/F Head shower fitting of approved make including necessary fittings and fixturers complete. (make: Essco, Seiko, Goldline/Topson)	Nos	4.00		
9	Providing and fixing in position double bowl stainless steel kitchen sink of approved make viz Nirali/parryware/Diamond of approx overall size 600 x 450 x 203 mm deep (304 grade s.s)fixed to Kitchen platform, including providing CP brass, base coupling, bottle trap etc. of approved make and making suitable connection to nahani trap complete with 40mm dia GI pipe 'b class' complete.	Nos	1.00		

10	Providing and fixing in position single bowl stainless steel kitchen sink of approved make viz Nirali/parryware/Diamond of approx overall size 400 x 400 x 203 mm deep (304 grade s.s.)fixed to Kitchen platform, including providing CP brass, base coupling, bottle trap etc. of approved make and making suitable connection to nahani trap complete with 40mm dia GI pipe 'b class' complete.	Nos	1.00		
11	Providing& fixing of new vitrous chinaware ewc-floor mounted and cover (glazed earthenware water closet pan) of any isi make or equivalent of ivory colour with trap supplying and fixing pvc flush tank (slim)of commander .p/f with 32 mm g.i.waste pipes from flush tank to water closet.inclu.cutting,grooving,making the good walls & floor etc.complete. (make: Simpolo, Soncera, Cera)	Nos	17.00		
12	Providing and fixing in position Orissa pattern' Indian 'WC pan of approved make viz Hindware, parryware, jaquar of dimensions 530x405x300mm with 12 liters Low Level PVC flushing cistern etc including all necessary CP fittings,stop cock, PVC connections etc. complete. (make: Simpolo, Soncera, Cera)	Nos	4.00		
13	Providing and fixing in position PVC heavy duty 'nahani trap' including all connections to waste water line complete. (Make: supreme or approved make)	Nos	34.00		
14	Providing and fixing in position SS soap holder of approved make and quality including all fittings and fixturers complete. (make: Essco, Seiko, Goldline/Topson)	Nos	18.00		
15	Proviidng and fixing in position CP Jet spray with flexible pipe and necessary two way fitting of approved make including necessary fittings and fixturers complete. (make: Essco, Seiko, Goldline/Topson)	Nos	4.00		
16	Providing and fixing in posiion SS tow way hooks on doors etc including all fittings and fixturers complete. (make: Essco, Seiko, Goldline/Topson)	Nos	14.00		
a	100 mm dia	Rmt	75.00		
b	150 mm dia	Rmt	75.00		
c	66 mm dia	Rmt	45.00		
17	Construction of brick masonry inspection chambers of internal clear dimension as mentioned below by using first class table moulded modular bricks 230 mm thick wall in cement mortor joints in 1:4, over CC 1:4:8 bed 150 mm thick including providing precast RCC top slab in 1:2:4 Mix (1 cement: 2 Coarse sand: 8 graded stone aggregate), with angle iron frame, inside plastering 15mm thick with CM 1:3 (1 cement::3 fine sand) finished very smooth with floating coat of neat cement & making benching and channelling in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 gradedstone aggregate) neatly finished complete as per standard design and as per drawing and specifications. (The rate shall include necessary earth work excavation in all types of soil excluding soft and hard rock, back filling including consolidation disposing the excess earth to all leads curing, finishing etc., and back filling and completion)				
a	Inside size of (450 x 900)mm. & depth not exceeding 800mm including providing . 450 x 900mm HEAVY DUTY REINFORCE cover with MS L angle frame of size 75 x 75 x 6 mm thick.	Nos	8.00		

18	Providing making Gully Trap of approx size 450 x 450 in one brick thick, and finishing it with 12mm thk 1:4 cement sand mix plaster, including providing P.C.C. benching and providing stone ware pipe connections, with approved quality PVC cover with frame complete.	Nos	9.00		
19	Providing and laying heavy quality (Minimum 6 Kg pressure) PVC pipes for sewerage disposal system including necessary excavation, laying 100mm thick PCC 1:3:6 levelling base course with all fittings and specials testing of joints and concealing the Pipe in PCC 1:2:4 all around with minimum 100 mm thick concrete complete as directed at site.				
(a)	200 mm dia.	Rmt	35.00		
(b)	150 mm dia.	Rmt	30.00		
20	Making soak pit of 3000 mm diameter, 3500mm deep with 45 x 45 dry brick honeycomb shaft with bricks S.W. Drain pipe 150 mm diameter, 2000 mm long complete as per standard design, filling up the same with brick bats, sand, gravels in layers or as directed complete as per drawing comprising of the following:	Job	1.00		
	(a) Earthwork in excavation in all kind of soils including hard murrum and back filling /disposing away surplus excavated earth as directed at site.				
	(b) Providing and laying PCC 1:3:6 levelling course 100 mm thick.				
	(c) Providing and laying 230mm thick Brick masonry dry wall etc. complete.				
	(d) Filling the Soak pit with selected rubble, gravel, brick bats and fine filter media in layers or as directed and then with murrum in level with surrounding ground level including connection with Septic Tank out let with 150mm SW/PVC drain pipe of required length complete as directed at site.				
21	Providing and fixing PVC overhead tank (Minimum double layer) required capacity as under including construction of 150mm high platform with concrete blocks/bricks/CC (finishing complete) and all connections (inlet & outlet) and making them water tight complete. (make: Sintex/Plasto or approved equivalent)				
	PVC (3000 litres)	Nos	2.00		
22	Providing and installing 2.00 HP submersible water pump of kirloskar / Becon / Crompton / Greaves including making bore of min 150 mm diameter upto desired depth until we get clean portable water. Rate to include MS casing upto loose Strata and PVC casing upto required depth and Providing PVC flexible pipe of Prince / Supreme. Kasta or equivalent make including necessary 3 core electrical cable 6.00 Sqmm of approved make upto meter room / panel etc. complete. Test reports of water to be given				
	(a) Boring 150mm Dia telescopic bore upto 400 ft. depth in all kind of strata with Combination rig boring Machine	Rmt	100.00		
	(b) Providing and fixing MS casing cap upto loose strata including providing MS boring Cap.	Rmt	9.00		

	(c) Providing and fixing PVC casing pipe of required dia suitable for 6.00 Kg pressure of Supreme / Kissan or equivalent approved by the Bank.	Rmt	90.00		
	(d) providing and fixing in position single phase 2.0 HP submersible pump of Kirloskar / Becon / Crompton Greaves or equivalent approved by the Bank suitable for total 90 to 100 meter pressure head including connecting power cable of 4 sqmm of Havells / Finolex, nylon Rope etc. Complete.	Set	1.00		
	(e) providing and fixing approved quality 25 mm / 32mm dia or as required as per specification of submersible pump specification heavy quality HDPE delivery pipe of Supreme / Kasta / Kissan or as per sample approved by the Bank.	Rmt	95.00		
Total of plumbing and sanitation (B)					
C	COMPOUND WALL				
1	MS openable gates as per design (including vertical m.s. support post 150mm X 150mm)				
a	Approx size : 4.00m x 1.80m ht (1 nos) openable gate as per detail drawings etc. complete.	Nos	1.00		
b	Approx size : 1.00m x 1.80m ht (1 nos) openable gate as per detail drawings etc. complete.	Nos	1.00		
2	Galvanized iron barbed wire fencing (Height - 6'-0")	Rmt	205.00		
	a) 2.5mm dia G.I. wire 14 gauge				
	b) Spacing of cement concrete pole (2400mm X 120mm X 120mm) @ 2.70 meter c/c embedded in concrete in position & in level. GI hardware to be as per approved make. & Painting it with two coats of zinc chromate primer & three coats of synthetic enamel paint of approved shade & make etc. complete. as per design & details.				
3	PCC (1:3:6) foundation for fencing work (work including excavation of rock and soil etc.)	cum	2.50		
Total of Compound					

D	SITE DEVELOPMENT (Only Approach to Building)				
1	Cleaning of compound premises of shrubs, plants etc. by cutting & removing from working site directed.	LS	1.00		
2	Providing, filling and consolidating the soil with water and murrum (brought from outside) upto depth of 150mm and moving road roller of minimum 10 tonnes for proper compaction to the satisfaction of Architect/ Clients Engineer complete.	Cum	40.00		
3	Providing and laying 150 mm thick hand packed approved quality stones soling including filling the voids with approved quality murrum/hard soil including watering and compaction complete as directed at site.	Cum	40.00		
4	Providing & laying concrete paver blocks (made from M40 grade concrete using cement, sand & 10mm down metal), (Make M/S Super/BASANT) of various shapes & sizes and 60mm thick, inclusive of compacting the base layer; providing & spreading sand bedding as required, laying the blocks in approved pattern and compacting the same with plate vibrator to give uniform surface, close fitting & required slope ,also inclusive of providing & fixing edge stones to contain the paver blocks etc. complete to the satisfaction of the architect & the engineer-in-charge.	Sqm	225.00		
		Total of Site development			
SEAL & SIGN OF CONTRACTOR					