

**BILL OF QUANTITIES (BOQ) FOR CIVIL WORKS****NAME OF THE WORK:SLUDGE STORAGE TANKS 2 No's X 150 KLD**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE (Rs.)		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
<b>A</b>	<b><u>EARTH WORK</u></b>						
<b>A1</b>	Clearing the Site manually / mechanically by making the ground to condition and disposing of the vegetation far off the site	Sqm	<b>111.00</b>				
<b>A2</b>	Earth work excavation manually / by machinery for foundations, sumps, etc in all types of soils up to a depth of 2 metre from existing ground level including all operational and incidental charges, shoring, strutting, dewatering, hire charges of T & P, labour charges, seignorage charges etc., and disposing the earth with in a distance of 500m in low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	<b>536.00</b>				
<b>A3</b>	Same as item No A2 for earth work in all types of soil for a depth of 2 metre to 3 metre from existing ground level.	Cum	<b>268</b>				
<b>A4</b>	Hard rock cutting manually /by machinery for foundations, sumps, septic tanks etc in hard rock and boulders by benching, chiselling, wedging and boring in rock, power drilling and stacking ( excavated rock to be stacked and 40% volume to be deducted for voids) including grade levelling upto a maximum depth of 3.0m including all operational charges and incidental charges, dewatering, hire charges of T&P, labour charges, Seignorage charges etc and disposing the rock around the building low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	<b>0</b>				
<b>A5</b>	Refilling with useful available excavated earth (excluding rock) in trenches, sides of foundations and basement in layers not exceeding 300 mm thick, consolidating each deposited layer by watering and ramming, including all operational, incidental, labour charges, hire charges of T & P etc., complete for finished item of work.	Cum	<b>421.00</b>				
<b>A6</b>	Supply and filling with red gravel/ murrum in layers not more than 300mm thick and hydraulically consolidated, in plinths, pits, foundations,below flooring and other purposes, including cost and conveyance of all materials, including compaction complete for finished item of work and as directed by the engineer.						
	a) Brought from outside	Cum	<b>359.00</b>				
<b>B</b>	<b><u>CONCRETE</u></b>						

<b>B1</b>	Providing plane cement concrete <b>M10 grade R.M.C</b> under foundations and under flooring including cost and conveyance of all materials like sand, coarse aggregate, water etc. to site, cost of seigniorage charges, sales and other taxes on all materials and including all operational, incidental, labour charges for machine mixing, laying concrete in foundations, ramming in 150mm thick layers including shuttering, finishing top surface to required level, curing etc., complete for finished item of work. a) Footings, basement, floorings etc.,	Cum	<b>26.00</b>				
<b>B2</b>	Providing Vibrated Reinforced Cement Concrete <b>M30 grade R.M.C</b> for all concrete works like Footings, columns, plinth beams, base slab & beams and RCC walls etc., cost of seigniorage charges and all other taxes on all materials, and including all operational, incidental charges, labour charges, scaffolding, centering, shuttering, deshuttering, machine mixing, laying concrete, machine vibrating, lift charges, curing, finishing the concrete surface, filling honeycombs with C.M 1:3 etc., complete finished item of work by using <b>RMC</b> as directed by Engineer-in-charge.						
<b>a)</b>	<b>Footings</b>	Cum	<b>40.00</b>				
<b>b)</b>	<b>Columns</b>						
	<b>i) Up to plinth beam lvl</b>	Cum	<b>5.00</b>				
	<b>i) Ground floor lvl</b>	Cum	<b>5.40</b>				
<b>c)</b>	<b>Plinth beams</b>	Cum	<b>9.00</b>				
<b>d)</b>	<b>BASE SLAB</b>						
	<b>i) R.C.C beams</b>	Cum	<b>10.00</b>				
	<b>i) R.C.C slab</b>	Cum	<b>44.00</b>				
<b>e)</b>	<b>R.C.C Walls</b>						
	<b>i) R.C.C wall</b>	Cum	<b>44.00</b>				
<b>f)</b>	<b>Pedestals for staircase</b>	Cum	<b>5.00</b>				
<b>B3</b>	Fabrication and fixing in position of High Yield Strength Deformed steel bars ( <b>Fe 500</b> grade as per IS 1786-1979) for RCC works of different diameter and sizes, bending rods to required sizes and shapes, placing grills in position with cover blocks, tying grills with binding wire for reinforcement work as per approved designs and drawings and all incidental, operational and labour charges including cost of 18 gauge MS binding wire, lift charges etc complete for finished item of work as directed by the engineer.	M.Ts	<b>19.00</b>				
<b>B4</b>	<b>R.C.C FLOORING/SURFACE FINISHING</b>						
<b>1</b>	<b>SLIP MEMBRANE:</b> Supply and application of Slip membrane / Vapour Barrier LDPE Sheeting of 200 micron thick with effective adequate overlapping on both sides.	sqm	<b>62.00</b>				
<b>2</b>	<b>Construction Joints, Dowelled Joint :</b> Supply and installation of <b>DD6 diamond dowel with PVC Sleeve and MS plate</b> at open day joint for better load transfer mechanism at <b>required spacing of 450mm c/c.</b>	Nos	<b>7</b>				

3	<b>Parallel Plate for Edge Protection</b> : Supply and installation of parallel plate steel joint at vehicle movement area on joints for edge protection and better load transfer mechanism.	Rmt	1.24				
4	<b>Laser Screed Flooring (150mm thick)</b> : Installation of form work to required level, compacting using mechanical vibrators, Laser screeding, checking on levels with laser guided level tool, carrying out tooling with bull float and bump cutter to remove excess high spots in the concrete, finishing smooth with power trowels and final finishing with ROT.	sqm	62.00				
5	<b>Dry shake non-metallic floor hardener</b> : Supply and broadcasting non-metallic floor hardener with mechanised wagon cart at a dosage rate of 3.5 - 4kg/sqmt to increase abrasion resistance of the floor. (Make : BASF/SIKA/MYK/FOSROC/Equivalent)	sqm	62.00				
6	<b>Saw Cut Joints</b> : Cutting grooves of size 4mm x 35mm with mechanised diamond wheel at panel size of regular intervals for expansion and contraction in concrete within early set stage and filling the same to the top 10-12mm with PS/PU sealant supported with 6mm backer rod below. (Sealant Make : BASF-MBCC/SIKA/MYK/Equivalent)	Rmt	30				
7	<b>Isolation Joints for columns</b> : Supply and installation of 20mm thick isolation joint with compressible board to columns, cutting the board to FFL and sealing the top 10mm with PS/PU sealant.	Rmt	5.40				
8	<b>STEEL FIBER REINFORCEMENT</b> : Providing & mixing 80/60BG Hooked End and non Glued Non balling Steel fibres Aspect ratio 80 Length 60mm and dia 0.75 mm @ 15Kg Per Cumt.	Kgs	141.00				
9	<b>Compaction Test with LWD</b> : Testing compaction by measuring deflections with portable impulse plate load tst device. Testing method (ASTM) E2835-11 (2015), testing equipment must produce results instantly on site with deflection graph and EVD values for compaction assurance at evenly 2 tests per 500 sqm area or 2 test per construction panel. (Test to be conducted 5 days prior to concreting work)	Nos	2.00				
10	<b>Densification/Dust-proofing treatment of floor</b> : Providing dust proofing over concrete Flooring including cleaning & drying the base surface, applying with Densifier (Make MYK/BASF/Equivalent). Including Polishing the surface with resin pads using Polishing machines with Planetary motion resulting to antiskid, densified dust proof floor.	sqm	62.00				
11	<b>Concrete RMC M30</b> : Supply of RMC M30 with pure OPC, No fly ash with retention time of 2-3hrs including spreading the concrete to all edges and corner.	Cum	9.40				
C	<b>MASONRY</b>						

<b>C1</b>	Construction of 300 mm thk Solid cement block masonry walls in CM (1:4) for Composite Plinth Beams including cost and conveyance of all materials like Cement, sand, Solid blocks, water etc. to site, cost and seigniorage charges on all materials, including all labor charges, like mixing cement mortar, scaffolding charges, lift charges curing etc., and complete for finished item of work.	Cum	<b>10.00</b>				
<b>D</b>	<b>PLASTERING</b>						
<b>D1</b>	Weather proof course (W.P.C) with plastering in C.M.(1:4) mix 20 mm thick for Gutters & water tanks etc., duly mixing imperious water proof compound using 21Kgs/10 Sqm SIKAFOSROC and finishing smooth with required slope, including cost and conveyance of all materials, labour charges, curing etc., complete for finished item of work as directed by engineer.	sqm	<b>180.00</b>				
<b>Total Amount</b>							

**NAME OF THE WORK: REJECT FROM (R.O-STAGE 1 & 2) FEED STORAGE TANKS 2 No's X 140KLD**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE (Rs.)		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
<b>A</b>	<b>EARTH WORK</b>						
<b>A1</b>	Clearing the Site manually / mechanically by making the ground to condition and disposing of the vegetation far off the site	Sqm	<b>128.74</b>				
<b>A2</b>	Earth work excavation manually / by machinery for foundations, sumps, etc in all types of soils up to a depth of 2 metre from existing ground level including all operational and incidental charges, shoring, strutting, dewatering, hire charges of T & P, labour charges, seigniorage charges etc., and disposing the earth with in a distance of 500m in low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	<b>258.00</b>				
<b>A3</b>	Same as item No A2 for earth work in all types of soil for a depth of 2 metre to 3 metre from existing ground level.	Cum	<b>65</b>				
<b>A4</b>	Hard rock cutting manually /by machinery for foundations, sumps, septic tanks etc in hard rock and boulders by benching, chiselling, wedging and boring in rock, power drilling and stacking ( excavated rock to be stacked and 40% volume to be deducted for voids) including grade levelling upto a maximum depth of 3.0m including all operational charges and incidental charges, dewatering, hire charges of T&P, labour charges, Seigniorage charges etc and disposing the rock around the building low laying areas below finished ground level complete for fininshed item of work as directed by the Engineer-in-charge .	Cum	<b>0</b>				
<b>A5</b>	Refilling with useful available excavated earth (excluding rock) in trenches, sides of foundations and basement in layers not exceeding 300 mm thick, consolidating each deposited layer by watering and ramming, including all operational, incidental, labour charges, hire charges of T & P etc., complete for finished item of work.	Cum	<b>0.00</b>				
<b>A6</b>	Supply and filling with red gravel/ murrum in layers not more than 300mm thick and hydraulically consolidated, in plinths, pits, foundations,below flooring and other purposes, including cost and conveyance of all materials, including compaction complete for finished item of work and as directed by the engineer.						

	a) Brought from outside	Cum	194.00				
A7	200mm Thk.soling with murrum blinding	Cum	26.00				
B	<b>CONCRETE</b>						
B1	Providing plane cement concrete <b>M10 grade R.M.C</b> under foundations and under flooring including cost and conveyance of all materials like sand, coarse aggregate, water etc. to site, cost of seigniorage charges, sales and other taxes on all materials and including all operational, incidental, labour charges for machine mixing, laying concrete in foundations, ramming in 150mm thick layers including shuttering, finishing top surface to required level, curing etc., complete for finished item of work. a) Footings, basement, floorings etc.,	Cum	13.00				
B2	Providing Vibrated Reinforced Cement Concrete <b>M30 grade R.M.C</b> for all concrete works like R.C.C base slab etc., cost of seigniorage charges and all other taxes on all materials, and including all operational, incidental charges, labour charges, scaffolding, centering, shuttering, deshuttering, machine mixing, laying concrete, machine vibrating, lift charges, curing, finishing the concrete surface smooth by trowelling, filling honeycombs with C.M 1:3 etc., complete finished item of work by using <b>RMC</b> as directed by Engineer-in-charge.						
	<b>i) Base slab</b>	Cum	25.00				
B3	Fabrication and fixing in position of High Yield Strength Deformed steel bars ( <b>Fe 500</b> grade as per IS 1786-1979) for RCC works of different diameter and sizes, bending rods to required sizes and shapes, placing grills in position with cover blocks, tying grills with binding wire for reinforcement work as per approved designs and drawings and all incidental, operational and labour charges including cost of 18 gauge MS binding wire, lift charges etc complete for finished item of work as directed by the engineer.	M.Ts	2.50				
	<b>Total Amount</b>						

**NAME OF THE WORK: STORAGE TANKS: 2 Nos. x 1600 KL & 2 Nos. x 450 KL**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
A	<b>EARTH WORK</b>						
A1A	Dismantling of bunds around the existing ponds in the area proposed for the R.O Plant, including shahbad/ tandur stone lining and cement mortar/ PCC beneath, PCC at the bottom of the ponds and the earth beneath the stone lining and PCC using manual and mechanical means, transporting, depositing in layers and consolidating each layer of 300 mm to provide a levelled and hard top surface within the plant premises as directed by the engineer-in-charge						
i	Shahbad/ tandur stones and cement mortar/ PCC below	Cum	76.00				
ii	PCC at bottom of ponds	Cum	104.00				
iii	Earth beneath the stone lining and PCC	Cum	2282.00				
A1	Clearing the Site manually / mechanically by making the ground to condition and disposing of the vegetation far off the site	Sqm	1512.00				

<b>A2</b>	Earth work excavation manually / by machinery for foundations, sumps, etc in all types of soils up to a depth of 2 metre from existing ground level including all operational and incidental charges, shoring, strutting, dewatering, hire charges of T & P, labour charges, seigniorage charges etc., and disposing the earth with in a distance of 500m in low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	<b>3023.00</b>				
<b>A3</b>	Same as item No A2 for earth work in all types of soil for a depth of 2 metre to 4 metre from existing ground level.	Cum	<b>3023.00</b>				
<b>A4</b>	Same as item No A2 for earth work in all types of soil for a depth of 4 metre to 6 metre from existing ground level.	Cum	<b>2420.00</b>				
<b>A5</b>	Hard rock cutting manually /by machinery for foundations, sumps, septic tanks etc in hard rock and boulders by benching, chiselling, wedging and boring in rock, power drilling and stacking ( excavated rock to be stacked and 40% volume to be deducted for voids) including grade levelling upto a maximum depth of 3.0m including all operational charges and incidental charges, dewatering, hire charges of T&P, labour charges, Seigniorage charges etc and disposing the rock around the building low laying areas below finished ground level complete for fininshed item of work as directed by the Engineer-in-charge .	Cum	<b>0</b>				
<b>A6</b>	Refilling with useful available excavated earth (excluding rock) in trenches, sides of foundations and basement in layers not exceeding 300 mm thick, consolidating each deposited layer by watering and ramming, including all operational, incidental, labour charges, hire charges of T & P etc., complete for finished item of work.	Cum	<b>630.00</b>				
<b>A7</b>	Supply and filling with red gravel/ murrum in layers not more than 300mm thick and hydraulically consolidated, in plinths, pits, foundations,below flooring and other purposes, including cost and conveyance of all materials, including compaction complete for finished item of work and as directed by the engineer.						
	a) Brought from outside	Cum	<b>230.00</b>				
<b>B</b>	<b><u>CONCRETE</u></b>						
<b>B1</b>	Providing plane cement concrete <b>M10 grade R.M.C</b> under foundations and under flooring including cost and conveyance of all materials like sand, coarse aggregate, water etc. to site, cost of seigniorage charges, sales and other taxes on all materials and including all operational, incidental, labour charges for machine mixing, laying concrete in foundations, ramming in 150mm thick layers including shuttering, finishing top surface to required level, curing etc., complete for finished item of work. a) Footings, basement , floorings etc.,	Cum	<b>205.00</b>				
<b>B2</b>	Providing Vibrated Reinforced Cement Concrete <b>M30 grade R.M.C</b> for all concrete works like Footings,columns,plinth beams,base slab & beams and RCC walls etc., cost of seigniorage charges and all other taxes on all materials, and including all operational, incidental charges, labour charges, scaffolding,centering, shuttering, deshuttering, machine mixing, laying concrete, machine vibrating, lift charges, curing, finishing the concrete surface, filling honeycombs with C.M 1:3 etc.,complete finished item of work by using <b>RMC</b> as directed by Engineer-in-charge.						
<b>a)</b>	<b>Footings</b>	Cum	<b>135.00</b>				

b)	<b>columns</b>	Cum	8.00				
c)	<b>Pedestals</b>	Cum	62.00				
d)	<b>Base slab</b>	Cum	320.00				
e)	<b>TOP SLAB</b>						
	i) <b>R.C.C beams</b>	Cum	90.00				
	ii) <b>R.C.C slab</b>	Cum	195.00				
f)	<b>R.C.C wall</b>	Cum	305.00				
B3	Fabrication and fixing in position of High Yield Strength Deformed steel bars ( <b>Fe 500</b> grade as per IS 1786-1979) for RCC works of different diameter and sizes, bending rods to required sizes and shapes, placing grills in position with cover blocks, tying grills with binding wire for reinforcement work as per approved designs and drawings and all incidental, operational and labour charges including cost of 18 gauge MS binding wire, lift charges etc complete for finished item of work as directed by the engineer.	M.Ts	130.00				
C	<b>MASONRY</b>						
C1	Construction of 200mm solid cement block wall with CM (1:6) including cost and conveyance of all materials like sand, Bricks, cement, water etc., seigniorage charges, and all labor charges, like mixing cement mortar, scaffolding charges, lift charges, curing etc., complete for finished item of work for super structure	Cum	78.00				
D	<b>PLASTERING</b>						
D1	Plastering 20mm thick in two coats with base coat of 16mm thick in CM (1:6) and top coat of 4mm thick in CM (1:4) with dubara sponge finishing including cost and conveyance of all materials like cement, sand, water etc., seigniorage charges, including operational, incidental charges and labour charges for mixing mortar, finishing, scaffolding, lift charges, curing, including cutting Grooves etc., complete for finished item of work for <b>Internal surfaces</b> of Walls and RCC exposed faces as directed by Engineer.	sqm	400.00				
D2	Plastering 20 mm thick in two coats with base coat of 16mm thick in CM (1:6) and top coat of 4mm thick in CM (1:4) with dubara sponge finishing including cost and conveyance of all materials like Cement, sand, water etc., seigniorage charges including all operational, incidental charges and labour charges for mixing mortar, finishing, scaffolding, lift charges, curing, including cutting Grooves etc., complete for finished item of work for <b>External Surfaces</b> of masonry Walls as directed by Engineer.	sqm	500.00				
D3	Weather proof course (W.P.C) with plastering in C.M.(1:4) mix 20 mm thick for Gutters & water tanks etc., duly mixing imperious water proof compound using 21Kgs/10 Sqm SIKAFOSROC and finishing smooth with required slope , including cost and conveyance of all materials, labour charges, curing etc., complete for finished item of work as directed by engineer.	sqm	2500.00				
E	<b>PAINTINGS</b>						

<b>E1</b>	Providing & Applying Acrylic Oil bound distemper or equivalent of approved make, colour and shade to <b>interior faces</b> of walls in two coats over primary coat of white cement (total 3 coats) including all taxes, cost and conveyance of all materials, water, brushes, to site and scaffolding etc., to site and all labour charges curing etc., complete for finished item of works at all heights.	sqm	<b>400.00</b>				
<b>E2</b>	Providing & applying Exterior grade 'Apex' paint or equivalent of approved make, colour and shade to <b>exterior faces</b> of walls in two coats over primary coat of white cement (total 3 coats) including all taxes, cost and conveyance of all materials, water, brushes, to site and scaffolding etc., to site and all labour charges curing etc., complete for finished item of works at all heights.	sqm	<b>500.00</b>				
<b>E3</b>	Painting to <b>iron work</b> with 2 coats of grade-1 Synthetic enamel paint of approved brand and shade over a base coat of appropriate grade-1 Red Oxide primer of approved brand making 3 coats in all to give an even shade after thoroughly brushing the surface to remove all remains including cost and conveyance of all materials to work site, cost of brushes and all operational, incidental, labour charges etc., complete for finished item of work as directed at all heights.	sqm	<b>100.00</b>				
<b>F</b>	<b><u>DOORS &amp; WINDOWS</u></b>						
<b>F1</b>	Steel Flush doors fully flush type of 46 mm thick pressed galvanized sheet single /double leaf of (Shakti Hormann Ltd., or approved equivalent make) which consists of frame, shutter, infill and finish as detailed below and conforming to IS 277. Door frame shall be single rebate profile of size 100 x 57 mm with bending radius of 1.00 mm having 1.25 mm thick galvanized steel sheet ( 18 gauge ) with steel door shutter of 46 mm thick fully flush, double skin door shall be manufactured from 0.80 mm thick galvanized steel sheet ( 22 gauge ). The infill material shall be resin bonded honey comb paper with thermal insulation. Door frames and shutter shall be finished with etched primer coating, stoved zinc phosphate primer and thermosetting polyurethane aliphatic grade paint ( 35 micron DFT ) of selected colour. Rate shall include supply and fix 3 mm thick base plates, all joints of frames with provision for anchor bottom fixing to wall / RC surface, reinforcement pad for fixing of door closers, factory finish, pre-punched cut-outs to receive hardware and ironmongery, 3 mm thick hinge plates predrilled to receive hinges for screw mounted fixing. The doors, incl glass, shall be fire rated for min 2 hour rating.	sqm	<b>23.00</b>				
	<b>MD - 5000x 4500</b> with double folding equal shutters with vision panel of 200x900 in one shutter. The hinges of the shutters shall be adequate to take load of the middle shutter to prevent sagging						



<b>F2</b>	<b>D : (900 x 2130)</b> Supplying and Fixing of Unplasticized Poly Vinyl chloride (UPVC) Casement Door with an Outer Frame of height 55 x width 60 mm and door sash of height 102 x width 60 mm duly fixed with TPV Gasket. System structurally reinforced with hot dip galvanized reinforcement channel up to 120 microns of minimum thickness of 1.0 mm for Outer frame and 2.0 mm for Door shutter pre fabricated & welded through fusion welding. The Door sash shall be fitted with 6 mm thick clear float glass of reputed make Modi/ Saint Gobain. System is to installed using 8 x 100 fasteners into the wall with appropriate distancing. Acrylic silicone sealant to be applied for out side of the window and paintable silicone to be applied inside of the window to cover the gap between outer frame and the wall.	sqm	5.00				
<b>F3</b>	Supply and fixing of Rolling Shutters fabricated from 18 gauge steel sheet and machine rolled with 75mm rolling centres with effective bridge depth of 12mm lath sections inter locked with malleable cast iron chips. The guides shall be either rolled or pressed channel sections 75mm and 25mm wide fitted necessary fittings and fixtures. The suspension shaft shall be formed from solid drawn 8 gauge seamless tubes of about 60mm O.D. in 3 segments coupled with 2 pairs C.I. dog-railed flange coupling forming one complete unit eliminating deflection in the centre to a minimum. The springs shall be of approved high tensile flat springs 50/60mm width and 1.6/1.8mm thickness hardened and tempered. These shall be fitted inside the fabricated housing of either ends which counter balance the shutter. The ball bearings shall be double row self aligning ball bearings fitted inside C.I. housing fixed on side brackets holding the suspension shaft at either end. The suspension of the shutter curtain shall be bolted on specially fabricated cages formed from M.S. flats and plates all are welded. The hood cover shall be made of 20 gauge galvanized sheets	sqm	45.00				
	necessary stiffeners and framework to prevent sag. The bottom lock plate shall be made of 3mm thick M.S. plate and shall be 95mm wide reinforced with angle/T iron of suitable section with 6mm dia. M.S. rivets interlocked with last stride of curtain. The locking arrangements shall consist of hasp and staple on the bottom plate lockable from both sides. Rolling shall be painted with one coat of red oxide zinc chromate paint conforming to I.S. 2074 before they are fixed.						
<b>F4</b>	<b>W : (1800 X 1200)</b> Supplying and Fixing of Unplasticized Poly Vinyl chloride (UPVC) 2 Track Sliding Windows of reputed brand 2-glass shutters as per design/ drawing duly manufactured using uPVC reinforced profiles of width 60 mm x height 45 mm for outer frames, height 58 mm x width 39 mm for sliding shutter frames capable of mounting single glazing system structurally reinforced with hot dip galvanized reinforcement channel up to 120 microns of minimum thickness of 1.0 mm for Outer frame and 1.5 mm for Sliding shutter pre fabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make Modi/ Saint Gobain. The system shall have single point locking with touch lock. System is to installed using 8 x 100 fasteners into the wall with appropriate distancing. Acrylic silicone sealant to be applied for out side of the window and paintable silicone to be applied inside of the window to cover the gap between outer frame and the wall.	sqm	35.00				

<b>F5</b>	<b>FW : (3000 x 2100)</b> Supplying and Fixing of Unplasticized Poly Vinyl chloride (UPVC) Fixed Fixed Window with an Outer Frame of size height 55 x width 60 mm & separating by two mullions of size height 74 x width 60 mm having 3 fixed glass. System structurally reinforced with hot dip galvanized reinforcement upto 120 microns of minimum thickness of 1.0 mm for Outer frame and 1.5 mm for Mullion pre fabricated & welded through fusion welding. The window shall be fitted with 6 mm thick clear float glass of reputed make Modi/ Saint Gobain. System is to be installed using 8 x 100 fasteners into the wall with appropriate distancing. Acrylic silicone sealant to be applied for out side of the window and paintable silicone to be applied inside of the window to cover the gap between outer frame and the wall.	sqm	20.00				
<b>F6</b>	<b>Fixed Glass :</b> Supplying and Fixing of Unplasticized Poly Vinyl chloride (UPVC) Fixed Fixed Window with an Outer Frame of size height 55 x width 60 mm & separating by two mullions of size height 74 x width 60 mm having 3 fixed glass. System structurally reinforced with hot dip galvanized reinforcement upto 120 microns of minimum thickness of 1.0 mm for Outer frame and 1.5 mm for Mullion pre fabricated & welded through fusion welding. The window shall be fitted with 6 mm thick clear float glass of reputed make Modi/ Saint Gobain. System is to be installed using 8 x 100 fasteners into the wall with appropriate distancing. Acrylic silicone sealant to be applied for out side of the window and paintable silicone to be applied inside of the window to cover the gap between outer frame and the wall.	sqm	75.00				
<b>F7</b>	Providing and fixing of <b>Daiken/Armstrong</b> or approved equivalent Mineral Fibre Ceiling Tiles with hot dipped galvanised steel grid frame work, surface chemically cleaned, capping pre-finished in baked polyester paint, main tees of size 33 (H) x 24 mm at every 1.2 m centre to centre, rotary stitched cross tee at 0.6 m centre to centre to form a grid of size 600 x 600 mm and suspending the grid from RCC roof using 6 mm GI rod and 6 mm nylon rawl plug at every 1200 mm intervals, supplying and laying Daiken/Armstrong or approved equivalent mineral fibre acoustical ceiling tiles (New NDF, constellation patterns) of size 600x600x15 mm over the formed grid. The board shall have fire rating of 60 minutes as per BG47G/23 of 1987, light reflection above 85%, Noise Reduction Coefficient (NRC) of 0.55 to 0.60, Sound Attenuation of 32 db, and humidity resistance upto 99% at 50° c including making provision/openings and strengthening for light fittings, A/c diffusers and like, providing trap doors of suitable size at required locations etc., complete all as directed.	sqm	50.00				
<b>G</b>	<b><u>FLOORING</u></b>						

G1	Flooring with Vitrified tiles of Premium Colour, Second quality ( Basic cost 650/ Sqm ) and make, shade and colour as approved by Engineer-in-charge of size not less than 600 x 600 mm, not less than 9 mm thickness set over a base coat of CM (1:6) prop. 50mm average thick including neat cement slurry of honey like consistency spread at the rate of 3.3 Kgs per sq.mt, and providing 3 mm thick nylon spacers and filling the joints with Laticrete jointing compound and white cement mixed with pigment of matching shade to match the shade of tiles over an existing bed of C.C. or R.C.C. slab, including cost and conveyance of all materials like cement, sand, water, Vitrified tiles, white cement etc., to site including cost of seigniorage charges and all other taxes on all materials, cost of base coat and all operational, incidental charges, labour charges for mixing of cement mortar, laying tiles to required slope, lift charges, curing etc., complete for finished item of work as directed by the Engineer-in-charge.	Sqm	60.00				
G2	Providing of 100mm height Skirting with Vitrified tiles Premium Colour of Second quality ( Basic cost 650/SQm ) and make, shade and colour as approved by Engineer-in-Charge with 9mm thick tiles with length equal to flooring tiles and matching the flooring joint lines and set over a base coat of CM (1:3) prop. 12mm thick including neat cement slurry of honey like consistency spread at the rate of 3.3 Kgs per sq.mt and filling the joints with white cement mixed with pigment of matching shade to match the shade of tiles, including cost and conveyance of all materials like cement, sand, water, Vitrified tiles, white cement etc., to site, cost of seigniorage charges on all materials, cost of base coat and all labour charges for mixing of cement mortar, laying tiles to required pattern, lift charges, curing etc., complete for finished item of work as directed by the Engineer-in-charge.	Rmt	46.00				
H	<b>65mm Thk. CONCRETE SCREED FLOORING</b>						
1	<b>Bonding Agent</b> : Supply and application of SBR bonding agent of old and new RCC work cleaning the surface, application by brush, etc.	Sqm	1200.00				
2	<b>Concrete Floor finishing (65mm thick)</b> : Installation of form work to required level, Vibrating the concrete by using screed vibrator, checking the levels using laser guided level tools. Thereafter, carrying out tooling, broadcasting floor hardener, finishing the top surface to required level and grade using skim floaters/discs/power trowels.	Sqm	1200.00				
3	<b>Providing and mixing "PP FIBRE"</b> 100% Virgins Polypropylene fibre of approved make, recommended dosage rate of 0.9 kg per cubic meter (0.1% by volume) in concrete.	Kg	70.20				
4	<b>Abrasion resistant Topping - Non Metallic Floor Hardener</b> : Supply including transportation, intercarting, intershifting, spreading of Non metallic Hard Top dry shake floor hardener of AR Class-2 at a dosage of 3.5Kg per Sqmt complete with the help of mechanised wagon cart. (Make : FOSROC/SIKA/MYK-ARMENT/Equivalent)	Sqm	1200.00				
5	<b>Saw cut : 5mm x (1/3rd of slab thickness)</b> cutting of grooves with mechanised Diamond wheel at intervals to create stress release joints for expansion and contraction in concrete, pannel size 4 mt x 4 mt	Rmt	600.00				

6	<b>Groove Filling</b> : Filling the joint with flexible PU sealant to top 12mm supported with 6mm dia compressible backer rod and silica sand below.	Rmt	600.00				
7	<b>Concrete Providing and laying design mix good quality concrete of M30 Grade with OPC of 53</b> grade with necessary and approved plasticizers to maintain water cement ratio at 0.36 to 0.42 mixed with minimum cementitious content as per Technical Specification, Preferably 100% OPC.	Cum	78.00				
8	<b>RMC Management, Concrete QA/QC, Supervision, Concrete Handling</b> : Arranging labours gang /Spade Work for spreading of concrete to every nook and corner using shovel, pouring concrete for channels grouting.						
	<b>Total Amount</b>						

**NAME OF THE WORK: WHE CONDENSATE STORAGE TANK FOUNDATION - 1 NO. X 100 KLD**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
<b>A</b>	<b>EARTH WORK</b>						
<b>A1</b>	Clearing the Site manually / mechanically by making the ground to condition and disposing of the vegetation far off the site	Sqm	76.00				
<b>A2</b>	Earth work excavation manually / by machinery for foundations, sumps, etc in all types of soils up to a depth of 2 metre from existing ground level including all operational and incidental charges, shoring, strutting, dewatering, hire charges of T & P, labour charges, seignorage charges etc., and disposing the earth with in a distance of 500m in low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	152.00				
<b>A3</b>	Same as item No A2 for earth work in all types of soil for a depth of 2 metre to 3 metre from existing ground level.	Cum	38				
<b>A4</b>	Hard rock cutting manually /by machinery for foundations, sumps, septic tanks etc in hard rock and boulders by benching, chiselling, wedging and boring in rock, power drilling and stacking ( excavated rock to be stacked and 40% volume to be deducted for voids) including grade levelling upto a maximum depth of 3.0m including all operational charges and incidental charges, dewatering, hire charges of T&P, labour charges, Seignorage charges etc and disposing the rock around the building low laying areas below finished ground level complete for fininshed item of work as directed by the Engineer-in-charge .	Cum	0				
<b>A5</b>	Refilling with useful available excavated earth (excluding rock) in trenches, sides of foundations and basement in layers not exceeding 300 mm thick, consolidating each deposited layer by watering and ramming, including all operational, incidental, labour charges, hire charges of T & P etc., complete for finished item of work.	Cum	0.00				
<b>A6</b>	Supply and filling with red gravel/ murrum in layers not more than 300mm thick and hydraulically consolidated, in plinths, pits, foundations,below flooring and other purposes, including cost and conveyance of all materials, including compaction complete for finished item of work and as directed by the engineer.						
	a) Brought from outside	Cum	114.00				

<b>A7</b>	200mm Thk.soling with murrum blinding	Cum	<b>16.00</b>				
<b>B</b>	<b>CONCRETE</b>						
<b>B1</b>	Providing plane cement concrete <b>M10 grade R.M.C</b> under foundations and under flooring including cost and conveyance of all materials like sand, coarse aggregate, water etc. to site, cost of seigniorage charges, sales and other taxes on all materials and including all operational, incidental, labour charges for machine mixing, laying concrete in foundations, ramming in 150mm thick layers including shuttering, finishing top surface to required level, curing etc., complete for finished item of work. a) Footings, basement, floorings etc.,	Cum	<b>8.00</b>				
<b>B2</b>	Providing Vibrated Reinforced Cement Concrete <b>M30 grade R.M.C</b> for all concrete works like R.C.C base slab etc., cost of seigniorage charges and all other taxes on all materials, and including all operational, incidental charges, labour charges, scaffolding, centering, shuttering, deshuttering, machine mixing, laying concrete, machine vibrating, lift charges, curing, finishing the concrete surface smooth by trowelling, filling honeycombs with C.M 1:3 etc., complete finished item of work by using <b>RMC</b> as directed by Engineer-in-charge.						
	<b>i) Base slab</b>	Cum	<b>15.00</b>				
<b>B3</b>	Fabrication and fixing in position of High Yield Strength Deformed steel bars ( <b>Fe 500</b> grade as per IS 1786-1979) for RCC works of different diameter and sizes, bending rods to required sizes and shapes, placing grills in position with cover blocks, tying grills with binding wire for reinforcement work as per approved designs and drawings and all incidental, operational and labour charges including cost of 18 gauge MS binding wire, lift charges etc complete for finished item of work as directed by the engineer.	M.Ts	<b>1.50</b>				
	<b>Total Amount</b>						

**NAME OF THE WORK: WHE FEED TANK 1 NO. x 50 KL**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
<b>A</b>	<b>EARTH WORK</b>						
<b>A1</b>	Clearing the Site manually / mechanically by making the ground to condition and disposing of the vegetation far off the site	Sqm	<b>33</b>				
<b>A2</b>	Earth work excavation manually / by machinery for foundations, sumps, etc in all types of soils up to a depth of 2 metre from existing ground level including all operational and incidental charges, shoring, strutting, dewatering, hire charges of T & P, labour charges, seigniorage charges etc., and disposing the earth with in a distance of 500m in low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	<b>66.00</b>				
<b>A3</b>	Same as item No A2 for earth work in all types of soil for a depth of 2 metre to 3 metre from existing ground level.	Cum	<b>17</b>				

<b>A4</b>	Hard rock cutting manually /by machinery for foundations, sumps, septic tanks etc in hard rock and boulders by benching, chiselling, wedging and boring in rock, power drilling and stacking ( excavated rock to be stacked and 40% volume to be deducted for voids) including grade levelling upto a maximum depth of 3.0m including all operational charges and incidental charges, dewatering, hire charges of T&P, labour charges, Seigniorage charges etc and disposing the rock around the building low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	0				
<b>A5</b>	Refilling with useful available excavated earth (excluding rock) in trenches, sides of foundations and basement in layers not exceeding 300 mm thick, consolidating each deposited layer by watering and ramming, including all operational, incidental, labour charges, hire charges of T & P etc., complete for finished item of work.	Cum	0.00				
<b>A6</b>	Supply and filling with red gravel/ murrum in layers not more than 300mm thick and hydraulically consolidated, in plinths, pits, foundations,below flooring and other purposes, including cost and conveyance of all materials, including compaction complete for finished item of work and as directed by the engineer.						
	a) Brought from outside	Cum	50.00				
<b>A7</b>	200mm Thk.soling with murrum blinding	Cum	6.00				
<b>B</b>	<b><u>CONCRETE</u></b>						
<b>B1</b>	Providing plane cement concrete <b>M10 grade R.M.C</b> under foundations and under flooring including cost and conveyance of all materials like sand, coarse aggregate, water etc. to site, cost of seigniorage charges, sales and other taxes on all materials and including all operational, incidental, labour charges for machine mixing, laying concrete in foundations, ramming in 150mm thick layers including shuttering, finishing top surface to required level, curing etc., complete for finished item of work. a) Footings, basement , floorings etc.,	Cum	4.00				
<b>B2</b>	Providing Vibrated Reinforced Cement Concrete <b>M30 grade R.M.C</b> for all concrete works like R.C.C base slab etc., cost of seigniorage charges and all other taxes on all materials, and including all operational, incidental charges, labour charges, scaffolding,centering, shuttering, deshuttering, machine mixing, laying concrete, machine vibrating, lift charges, curing, finishing the concrete surface smooth by trowelling , filling honeycombs with C.M 1:3 etc.,complete finished item of work by using <b>RM C</b> as directed by Engineer-in-charge.						
	<b>i) Base slab</b>	Cum	5.00				
	<b>ii) R.C.C Wall</b>	Cum	8.00				
<b>B3</b>	Fabrication and fixing in position of High Yield Strength Deformed steel bars ( <b>Fe 500</b> grade as per IS 1786-1979) for RCC works of different diameter and sizes, bending rods to required sizes and shapes, placing grills in position with cover blocks, tying grills with binding wire for reinforcement work as per approved designs and drawings and all incidental, operational and labour charges including cost of 18 gauge MS binding wire, lift charges etc complete for finished item of work as directed by the engineer.	M.Ts	1.50				
<b>C</b>	<b><u>PLASTERING</u></b>						

<b>C1</b>	Weather proof course (W.P.C) with plastering in C.M.(1:4) mix 20 mm thick for Gutters & water tanks etc., duly mixing imperious water proof compound using 21Kgs/10 Sqm SIKA/FOSROC and finishing smooth with required slope , including cost and conveyance of all materials, labour charges, curing etc., complete for finished item of work as directed by engineer.	sqm	50.00				
<b>Total Amount</b>							

**NAME OF THE WORK: LAMELLA CLARIFIER FOUNDATIONS - 2 NOS. (3.5M X 15.5 M)**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
<b>A1</b>	Clearing the Site manually / mechanically by making the ground to condition and disposing of the vegetation far off the site	Sqm	284.00				
<b>A2</b>	Earth work excavation manually / by machinery for foundations, sumps, etc in all types of soils up to a depth of 2 metre from existing ground level including all operational and incidental charges, shoring, strutting, dewatering, hire charges of T & P, labour charges, seignorage charges etc., and disposing the earth with in a distance of 500m in low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	566.00				
<b>A3</b>	Same as item No A2 for earth work in all types of soil for a depth of 2 metre to 3 metre from existing ground level.	Cum	140				
<b>A4</b>	Hard rock cutting manually /by machinery for foundations, sumps, septic tanks etc in hard rock and boulders by benching, chiselling, wedging and boring in rock, power drilling and stacking ( excavated rock to be stacked and 40% volume to be deducted for voids) including grade levelling upto a maximum depth of 3.0m including all operational charges and incidental charges, dewatering, hire charges of T&P, labour charges, Seignorage charges etc and disposing the rock around the building low laying areas below finished ground level complete for fininshed item of work as directed by the Engineer-in-charge .	Cum	0				
<b>A5</b>	Refilling with useful available excavated earth (excluding rock) in trenches, sides of foundations and basement in layers not exceeding 300 mm thick, consolidating each deposited layer by watering and ramming, including all operational, incidental, labour charges, hire charges of T & P etc., complete for finished item of work.	Cum	260.00				
<b>A6</b>	Supply and filling with red gravel/ murrum in layers not more than 300mm thick and hydraulically consolidated, in plinths, pits, foundations,below flooring and other purposes, including cost and conveyance of all materials, including compaction complete for finished item of work and as directed by the engineer.						
	a) Brought from outside	Cum	424.00				
<b>B</b>	<b><u>CONCRETE</u></b>						

<b>B1</b>	Providing plane cement concrete <b>M10 grade R.M.C</b> under foundations and under flooring including cost and conveyance of all materials like sand, coarse aggregate, water etc. to site, cost of seigniorage charges, sales and other taxes on all materials and including all operational, incidental, labour charges for machine mixing, laying concrete in foundations, ramming in 150mm thick layers including shuttering, finishing top surface to required level, curing etc., complete for finished item of work. a) Footings, basement, floorings etc.,	Cum	<b>32.00</b>				
<b>B2</b>	Providing Vibrated Reinforced Cement Concrete <b>M25 grade R.M.C</b> for all concrete works like Footings, columns, plinth beams, base slab & beams and RCC walls etc., cost of seigniorage charges and all other taxes on all materials, and including all operational, incidental charges, labour charges, scaffolding, centering, shuttering, deshuttering, machine mixing, laying concrete, machine vibrating, lift charges, curing, finishing the concrete surface, filling honeycombs with C.M 1:3 etc., complete finished item of work by using <b>RMC</b> as directed by Engineer-in-charge.						
<b>a)</b>	<b>Footings</b>	Cum	<b>32.00</b>				
<b>b)</b>	<b>Pedestals</b>						
	<b>i) Up to plinth beam lvl</b>	Cum	<b>24.00</b>				
<b>c)</b>	<b>Plinth beams</b>	Cum	<b>14.00</b>				
<b>B3</b>	Fabrication and fixing in position of High Yield Strength Deformed steel bars ( <b>Fe 500</b> grade as per IS 1786-1979) for RCC works of different diameter and sizes, bending rods to required sizes and shapes, placing grills in position with cover blocks, tying grills with binding wire for reinforcement work as per approved designs and drawings and all incidental, operational and labour charges including cost of 18 gauge MS binding wire, lift charges etc complete for finished item of work as directed by the engineer.	M.Ts	<b>10.00</b>				
<b>B4</b>	Providing, fabrication, placing in position, tying to the pedestal reinforcement, Tack welding to avoid displacement during concreting anchor bolts of grade 8.8 as per the detail provided, including template etc as per requirement and as directed by the engineer incharge	kgs	<b>1050.00</b>				
<b>B5</b>	<b>R.C.C FLOORING/SURFACE FINISHING</b>						
<b>1</b>	<b>SLIP MEMBRANE:</b> Supply and application of Slip membrane / Vapour Barrier LDPE Sheeting of 200 micron thick with effective adequate overlapping on both sides.	sqm	<b>134.00</b>				
<b>2</b>	<b>Construction Joints Dowelled Joint :</b> Supply and installation of <b>DD6 diamond dowel with PVC Sleeve and MS plate</b> at open day joint for better load transfer mechanism at <b>required spacing of 450mm c/c.</b>	Nos	<b>15</b>				
<b>3</b>	<b>Parallel Plate for Edge Protection :</b> Supply and installation of parallel plate steel joint at vehicle movement area on joints for edge protection and better load transfer mechanism.	Rmt	<b>2.68</b>				



4	<b>Laser Screed Flooring (150mm thick)</b> : Installation of form work to required level, compacting using mechanical vibrators, Laser screeding, checking on levels with laser guided level tool, carrying out tooling with bull float and bump cutter to remove excess high spots in the concrete, finishing smooth with power trowels and final finishing with ROT.	sqm	134.00				
5	<b>Dry shake non-metallic floor hardener</b> : Supply and broadcasting non-metallic floor hardener with mechanised wagon cart at a dosage rate of 3.5 - 4kg/sqmt to increase abrasion resistance of the floor. (Make : BASF/SIKA/MYK/FOSROC/Equivalent)	sqm	134.00				
6	<b>Saw Cut Joints</b> : Cutting grooves of size 4mm x 35mm with mechanised diamond wheel at panel size of regular intervals for expansion and contraction in concrete within early set stage and filling the same to the top 10-12mm with PS/PU sealant supported with 6mm backer rod below. (Sealant Make : BASF-MBCC/SIKA/MYK/Equivalent)	Rmt	64				
7	<b>Isolation Joints for columns</b> : Supply and installation of 20mm thick isolation joint with compressible board to columns, cutting the board to FFL and sealing the top 10mm with PS/PU sealant.	Rmt	52.00				
8	<b>STEEL FIBER REINFORCEMENT</b> : Providing & mixing 80/60BG Hooked End and non Glued Non balling Steel fibres Aspect ratio 80 Length 60mm and dia 0.75 mm @ 15Kg Per Cumt.	Kgs	300.00				
9	<b>Compaction Test with LWD</b> : Testing compaction by measuring deflections with portable impulse plate load tst device. Testing method (ASTM) E2835-11 (2015), testing equipment must produce results instantly on site with deflection graph and EVD values for compaction assurance at evenly 2 tests per 500 sqm area or 2 test per construction panel. (Test to be conducted 5 days prior to concreting work)	Nos	4.00				
10	<b>Densification/Dust-proofing treatment of floor</b> : Providing dust proofing over concrete Flooring including cleaning & drying the base surface, applying with Densifier (Make MYK/BASF/Equivalent). Including Polishing the surface with resin pads using Polishing machines with Planetary motion resulting to antiskid, densified dust proof floor.	sqm	134.00				
11	<b>Concrete RMC M30</b> : Supply of RMC M30 with pure OPC, No fly ash with retention time of 2-3hrs spreading the concrete to all edges and corner.	Cum	20.00				
C	<b>MASONRY</b>						
C1	Construction of 300 mm thk Solid cement block masonry walls in CM (1:4) for Composite Plinth Beams including cost and conveyance of all materials like Cement, sand, Solid blocks, water etc. to site, cost and seigniorage charges on all materials, including all labor charges, like mixing cement mortar, scaffolding charges, lift charges curing etc., and complete for finished item of work.	Cum	14.00				
	<b>Total Amount</b>				0.00		

**NAME OF THE WORK: SLUDGE THICKENER - 1 No. x 100 KL**

	UNIT	QUANTITY	QUOTED RATE	AMOUNT (Rs.)
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S.No	DESCRIPTION OF WORK			In Figures	In Words	In Figures	In Words
<b>A</b>	<b><u>EARTH WORK</u></b>						
<b>A1</b>	Clearing the Site manually / mechanically by making the ground to condition and disposing of the vegetation far off the site	Sqm	<b>91.00</b>				
<b>A2</b>	Earth work excavation manually / by machinery for foundations, sumps, etc in all types of soils up to a depth of 2 metre from existing ground level including all operational and incidental charges, shoring, strutting, dewatering, hire charges of T & P, labour charges, seigniorage charges etc., and disposing the earth with in a distance of 500m in low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	<b>272.00</b>				
<b>A3</b>	Same as item No A2 for earth work in all types of soil for a depth of 2 metre to 4 metre from existing ground level.	Cum	<b>272.00</b>				
<b>A4</b>	Same as item No A2 for earth work in all types of soil for a depth of 4 metre to 6 metre from existing ground level.	Cum	<b>272.00</b>				
<b>A5</b>	Hard rock cutting manually /by machinery for foundations, sumps, septic tanks etc in hard rock and boulders by benching, chiselling, wedging and boring in rock, power drilling and stacking ( excavated rock to be stacked and 40% volume to be deducted for voids) including grade levelling upto a maximum depth of 3.0m including all operational charges and incidental charges, dewatering, hire charges of T&P, labour charges, Seigniorage charges etc and disposing the rock around the building low laying areas below finished ground level complete for fininshed item of work as directed by the Engineer-in-charge .	Cum	<b>0</b>				
<b>A6</b>	Refilling with useful available excavated earth (excluding rock) in trenches, sides of foundations and basement in layers not exceeding 300 mm thick, consolidating each deposited layer by watering and ramming, including all operational, incidental, labour charges, hire charges of T & P etc., complete for finished item of work.	Cum	<b>611.00</b>				
<b>A7</b>	Supply and filling with red gravel/ murrum in layers not more than 300mm thick and hydraulically consolidated, in plinths, pits, foundations,below flooring and other purposes, including cost and conveyance of all materials, including compaction complete for finished item of work and as directed by the engineer.						
	a) Brought from outside	Cum	<b>165.00</b>				
<b>B</b>	<b><u>CONCRETE</u></b>						
<b>B1</b>	Providing plane cement concrete <b>M10 grade R.M.C</b> under foundations and under flooring including cost and conveyance of all materials like sand, coarse aggregate, water etc. to site, cost of seigniorage charges, sales and other taxes on all materials and including all operational, incidental, labour charges for machine mixing, laying concrete in foundations, ramming in 150mm thick layers including shuttering, finishing top surface to required level, curing etc., complete for finished item of work. a) Footings, basement , floorings etc.,	Cum	<b>15.00</b>				

<b>B2</b>	Providing Vibrated Reinforced Cement Concrete <b>M30 grade R.M.C</b> for all concrete works like Footings,columns,plinth beams,base slab & beams and RCC walls etc., cost of seigniorage charges and all other taxes on all materials, and including all operational, incidental charges, labour charges, scaffolding,centering, shuttering, deshuttering, machine mixing, laying concrete, machine vibrating, lift charges, curing, finishing the concrete surface, filling honeycombs with C.M 1:3 etc.,complete finished item of work by using <b>RMC</b> as directed by Engineer-in-charge.					
<b>a)</b>	<b>Footings</b>	Cum	<b>25.00</b>			
<b>b)</b>	<b>Columns</b>					
	<b>i) Up to plinth beam lvl</b>	Cum	<b>5.00</b>			
	<b>ii) Ground floor lvl</b>	Cum	<b>2.00</b>			
<b>c)</b>	<b>Tie beams</b>	Cum	<b>3.50</b>			
<b>d)</b>	<b>Plinth beams</b>	Cum	<b>6.50</b>			
<b>e)</b>	<b>BASE SLAB</b>					
	<b>i) R.C.C beams</b>	Cum	<b>4.00</b>			
	<b>ii) R.C.C slab</b>	Cum	<b>11.00</b>			
<b>f)</b>	<b>i) R.C.C wall</b>	Cum	<b>22.00</b>			
<b>g)</b>	<b>Pedestal for staircase</b>	Cum	<b>9.00</b>			
<b>B3</b>	Fabrication and fixing in position of High Yield Strength Deformed steel bars ( <b>Fe 500</b> grade as per IS 1786-1979) for RCC works of different diameter and sizes, bending rods to required sizes and shapes, placing grills in position with cover blocks, tying grills with binding wire for reinforcement work as per approved designs and drawings and all incidental, operational and labour charges including cost of 18 gauge MS binding wire, lift charges etc complete for finished item of work as directed by the engineer.	M.Ts	<b>10.50</b>			
<b>B4</b>	<b>R.C.C FLOORING/SURFACE FINISHING</b>					
<b>1</b>	<b>SLIP MEMBRANE:</b> Supply and application of Slip membrane / Vapour Barrier LDPE Sheeting of 200 micron thick with effective adequate overlapping on both sides.	sqm	<b>17.20</b>			
<b>2</b>	<b>Construction Joints_Dowelled Joint :</b> Supply and installation of <b>DD6 diamond dowel with PVC Sleeve and MS plate</b> at open day joint for better load transfer mechanism at <b>required spacing of 450mm c/c.</b>	Nos	<b>2</b>			
<b>3</b>	<b>Parallel Plate for Edge Protection :</b> Supply and installation of parallel plate steel joint at vehicle movement area on joints for edge protection and better load transfer mechanism.	Rmt	<b>0.34</b>			
<b>4</b>	<b>Laser Screed Flooring (150mm thick) :</b> Installation of form work to required level, compacting using mechanical vibrators, Laser screeding, checking on levels with laser guided level tool, carrying out tooling with bull float and bump cutter to remove excess high spots in the concrete, finishing smooth with power trowels and final finishing with ROT	sqm	<b>17.20</b>			

5	<b>Dry shake non-metallic floor hardener</b> : Supply and broadcasting non-metallic floor hardener with mechanised wagon cart at a dosage rate of 3.5 - 4kg/sqmt to increase abrasion resistance of the floor. (Make : BASF/SIKA/MYK/FOSROC/Equivalent)	sqm	17.20				
6	<b>Saw Cut Joints</b> : Cutting grooves of size 4mm x 35mm with mechanised diamond wheel at panel size of regular intervals for expansion and contraction in concrete within early set stage and filling the same to the top 10-12mm with PS/PU sealant supported with 6mm backer rod below. (Sealant Make : BASF-MBCC/SIKA/MYK/Equivalent)	Rmt	8				
7	<b>Isolation Joints for columns</b> : Supply and installation of 20mm thick isolation joint with compressible board to columns, cutting the board to FFL and sealing the top 10mm with PS/PU sealant.	Rmt	5.40				
8	<b>STEEL FIBER REINFORCEMENT</b> : Providing & mixing 80/60BG Hooked End and non Glued Non balling Steel fibres Aspect ratio 80 Length 60mm and dia 0.75 mm @ 15Kg Per Cumt.	Kgs	50.00				
9	<b>Compaction Test with LWD</b> : Testing compaction by measuring deflections with portable impulse plate load tst device. Testing method (ASTM) E2835-11 (2015), testing equipment must produce results instantly on site with deflection graph and EVD values for compaction assurance at evenly 2 tests per 500 sqm area or 2 test per construction panel. (Test to be conducted 5 days prior to concreting work)	Nos	2.00				
10	<b>Densification/Dust-proofing treatment of floor</b> : Providing dust proofing over concrete Flooring including cleaning & drying the base surface, applying with Densifier (Make MYK/BASF/ Equivalent). Including Polishing the surface with resin pads using Polishing machines with Planetary motion resulting to antiskid, densified dust proof floor.	sqm	17.20				
11	<b>Concrete RMC M30</b> : Supply of RMC M30 with pure OPC, No fly ash with retention time of 2-3hrs including spreading the concrete to all edges and corner.	Cum	3.00				
C	<b>MASONRY</b>						
C1	Construction of 300 mm thk Solid cement block masonry walls in CM (1:4) for Composite Plinth Beams including cost and conveyance of all materials like Cement, sand, Solid blocks, water etc. to site, cost and seigniorage charges on all materials, including all labor charges, like mixing cement mortar, scaffolding charges, lift charges curing etc., and complete for finished item of work.	Cum	3.00				
D	<b>PLASTERING</b>						
D1	Weather proof course (W.P.C) with plastering in C.M.(1:4) mix 20 mm thick for Gutters & water tanks etc., duly mixing imperious water proof compound using 21Kgs/10 Sqm SIKA/FOSROC and finishing smooth with required slope , including cost and conveyance of all materials, labour charges, curing etc., complete for finished item of work as directed by engineer.	sqm	100.00				
<b>Total Amount</b>							

**NAME OF THE WORK: SLUDGE STORAGE SHED FOUNDATIONS & FLOORING (12.0 M X 15.0 M)**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
<b>A</b>	<b><u>EARTH WORK</u></b>						
<b>A1</b>	Clearing the Site manually / mechanically by making the ground to condition and disposing of the vegetation far off the site	Sqm	<b>320.10</b>				
<b>A2</b>	Earth work excavation manually / by machinery for foundations, sumps, etc in all types of soils up to a depth of 2 metre from existing ground level including all operational and incidental charges, shoring, strutting, dewatering, hire charges of T & P, labour charges, seignorage charges etc., and disposing the earth with in a distance of 500m in low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	<b>640.00</b>				
<b>A3</b>	Same as item No A2 for earth work in all types of soil for a depth of 2 metre to 4 metre from existing ground level.	Cum	<b>640.00</b>				
<b>A4</b>	Same as item No A2 for earth work in all types of soil for a depth of 4 metre to 6 metre from existing ground level.	Cum	<b>640.00</b>				
<b>A5</b>	Hard rock cutting manually /by machinery for foundations, sumps, septic tanks etc in hard rock and boulders by benching, chiselling, wedging and boring in rock, power drilling and stacking ( excavated rock to be stacked and 40% volume to be deducted for voids) including grade levelling upto a maximum depth of 3.0m including all operational charges and incidental charges, dewatering, hire charges of T&P, labour charges, Seignorage charges etc and disposing the rock around the building low laying areas below finished ground level complete for fininshed item of work as directed by the Engineer-in-charge .	Cum	<b>0</b>				
<b>A6</b>	Refilling with useful available excavated earth (excluding rock) in trenches, sides of foundations and basement in layers not exceeding 300 mm thick, consolidating each deposited layer by watering and ramming, including all operational, incidental, labour charges, hire charges of T & P etc., complete for finished item of work.	Cum	<b>1384.00</b>				
<b>A7</b>	Supply and filling with red gravel/ murrum in layers not more than 300mm thick and hydraulically consolidated, in plinths, pits, foundations,below flooring and other purposes, including cost and conveyance of all materials, including compaction complete for finished item of work and as directed by the engineer.						
	a) Brought from outside	Cum	<b>480.00</b>				
<b>B</b>	<b><u>CONCRETE</u></b>						
<b>B1</b>	Providing plane cement concrete <b>M10 grade R.M.C</b> under foundations and under flooring including cost and conveyance of all materials like sand, coarse aggregate, water etc. to site, cost of seigniorage charges, sales and other taxes on all materials and including all operational, incidental, labour charges for machine mixing, laying concrete in foundations, ramming in 150mm thick layers including shuttering, finishing top surface to required level, curing etc., complete for finished item of work. a) Footings, basement , floorings etc.,	Cum	<b>32.00</b>				

<b>B2</b>	Providing Vibrated Reinforced Cement Concrete <b>M25 grade R.M.C</b> for all concrete works like Footings, columns, plinth beams, base slab & beams and RCC walls etc., cost of seigniorage charges and all other taxes on all materials, and including all operational, incidental charges, labour charges, scaffolding, centering, shuttering, deshuttering, machine mixing, laying concrete, machine vibrating, lift charges, curing, finishing the concrete surface, filling honeycombs with C.M 1:3 etc., complete finished item of work by using <b>RMC</b> as directed by Engineer-in-charge.					
<b>a)</b>	<b>Footings</b>	Cum	<b>17.50</b>			
<b>b)</b>	<b>Pedestals</b>	Cum	<b>31.00</b>			
<b>c)</b>	<b>Plinth beams</b>	Cum	<b>8.00</b>			
<b>B3</b>	Fabrication and fixing in position of High Yield Strength Deformed steel bars ( <b>Fe 500</b> grade as per IS 1786-1979) for RCC works of different diameter and sizes, bending rods to required sizes and shapes, placing grills in position with cover blocks, tying grills with binding wire for reinforcement work as per approved designs and drawings and all incidental, operational and labour charges including cost of 18 gauge MS binding wire, lift charges etc complete for finished item of work as directed by the engineer.	M.Ts	<b>10.00</b>			
<b>B4</b>	<b>R.C.C FLOORING/SURFACE FINISHING</b>					
<b>1</b>	<b>SLIP MEMBRANE:</b> Supply and application of Slip membrane / Vapour Barrier LDPE Sheeting of 200 micron thick with effective adequate overlapping on both sides.	sqm	<b>206.00</b>			
<b>2</b>	<b>Construction Joints_Dowelled Joint :</b> Supply and installation of <b>DD6 diamond dowel with PVC Sleeve and MS plate</b> at open day joint for better load transfer mechanism at <b>required spacing of 450mm c/c.</b>	Nos	<b>23</b>			
<b>3</b>	<b>Parallel Plate for Edge Protection :</b> Supply and installation of parallel plate steel joint at vehicle movement area on joints for edge protection and better load transfer mechanism.	Rmt	<b>4.12</b>			
<b>4</b>	<b>Laser Screed Flooring (150mm thick) :</b> Installation of form work to required level, compacting using mechanical vibrators, Laser screeding, checking on levels with laser guided level tool, carrying out tooling with bull float and bump cutter to remove excess high spots in the concrete, finishing smooth with power trowels and final finishing with ROT.	sqm	<b>206.00</b>			
<b>5</b>	<b>Dry shake non-metallic floor hardener :</b> Supply and broadcasting non-metallic floor hardener with mechanised wagon cart at a dosage rate of 3.5 - 4kg/sqmt to increase abrasion resistance of the floor. (Make : <b>BASF/SIKA/MYK/FOSROC/Equivalent</b> )	sqm	<b>206.00</b>			
<b>6</b>	<b>Saw Cut Joints :</b> Cutting grooves of size 4mm x 35mm with mechanised diamond wheel at panel size of regular intervals for expansion and contraction in concrete within early set stage and filling the same to the top 10-12mm with PS/PU sealant supported with 6mm backer rod below. (Sealant Make : <b>BASF-MBCC/SIKA/MYK/Equivalent</b> )	Rmt	<b>98.10</b>			

7	<b>Isolation Joints for columns :</b> Supply and installation of <b>20mm thick isolation joint with compressible board to columns</b> , cutting the board to FFL and sealing the top 10mm with PS/PU sealant.	Rmt	17.00				
8	<b>Isolation Joints for Walls :</b> Supply and installation of <b>10mm thick isolation joint with compressible board to walls</b> , cutting the board to FFL and sealing the top 10mm with PS/PU sealant. <b>(Sealant Make : BASF-MBCC/SIKA/MYK/Equivalent)</b>	Rmt	42.00				
9	<b>STEEL FIBER REINFORCEMENT :</b> Providing & mixing 80/60BG Hooked End and non Glued Non balling Steel fibres Aspect ratio 80 Length 60mm and dia 0.75 mm @ 15Kg Per Cumt.	Kgs	465.00				
10	<b>Compaction Test with LWD :</b> Testing compaction by measuring deflections with portable impulse plate load tst device. Testing method (ASTM) E2835-11 (2015), testing equipment must produce results instantly on site with deflection graph and EVD values for compaction assurance at evenly 2 tests per 500 sqm area or 2 test per construction panel. <b>(Test to be conducted 5 days prior to concreting work)</b>	Nos	2				
11	<b>Densification/Dust-proofing treatment of floor :</b> Providing dust proofing over concrete Flooring including cleaning & drying the base surface, applying with Densifier (Make MYK/BASF/ Equivalent). Including Polishing the surface with resin pads using Polishing machines with Planetary motion resulting to antiskid, densified dust proof floor.	sqm	206.00				
12	<b>Concrete RMC M30 :</b> Supply of RMC M30 with pure OPC, No fly ash with retention time of 2-3hrs including spreading the concrete to all edges and corner.	Cum	31.00				
C	<b><u>MASONRY</u></b>						
C1	Construction of 300 mm thk Solid cement block masonry walls in CM (1:4) for Composite Plinth Beams including cost and conveyance of all materials like Cement, sand, Solid blocks, water etc. to site, cost and seigniorage charges on all materials, including all labor charges, like mixing cement mortar, scaffolding charges, lift charges curing etc., and complete for finished item of work.	Cum	7.00				
C2	Construction of 200mm solid cement block wall with CM (1:6) including cost and conveyance of all materials like sand, Bricks, cement, water etc., seigniorage charges, and all labor charges, like mixing cement mortar, scaffolding charges, lift charges, curing etc., complete for finished item of work for super structure	Cum	12.00				
D	<b><u>PLASTERING</u></b>						
D1	Plastering 20mm thick in two coats with base coat of 16mm thick in CM (1:6) and top coat of 4mm thick in CM (1:4) with dubara sponge finishing including cost and conveyance of all materials like cement, sand, water etc., seigniorage charges, including operational, incidental charges and labour charges for mixing mortar, finishing, scaffolding, lift charges, curing, including cutting Grooves etc., complete for finished item of work for <b>Internal surfaces</b> of Walls and RCC exposed faces as directed by Engineer.	sqm	60.00				

<b>D2</b>	Plastering 20 mm thick in two coats with base coat of 16mm thick in CM (1:6) and top coat of 4mm thick in CM (1:4) with dubara sponge finishing including cost and conveyance of all materials like Cement, sand, water etc., seigniorage charges including all operational, incidental charges and labour charges for mixing mortar, finishing, scaffolding, lift charges, curing, including cutting Grooves etc., complete for finished item of work for <b>External Surfaces</b> of masonry Walls as directed by Engineer.	sqm	<b>95.00</b>				
<b>E</b>	<b><u>PAINTINGS</u></b>						
<b>E1</b>	Providing & Applying Acrylic Oil bound distemper or equivalent of approved make, colour and shade to <b>interior faces</b> of walls in two coats over primary coat of white cement (total 3 coats) including all taxes, cost and conveyance of all materials, water, brushes, to site and scaffolding etc., to site and all labour charges curing etc., complete for finished item of works at all heights.	sqm	<b>60.00</b>				
<b>E2</b>	Providing & applying Exterior grade 'Apex' paint or equivalent of approved make, colour and shade to <b>exterior faces</b> of walls in two coats over primary coat of white cement (total 3 coats) including all taxes, cost and conveyance of all materials, water, brushes, to site and scaffolding etc., to site and all labour charges curing etc., complete for finished item of works at all heights.	sqm	<b>95.00</b>				
	<b>Total Amount</b>						

**NAME OF THE WORK: WHE STRUCTURE FOUNDATIONS & FLOORING (6.0 M X 18.0 M)**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
<b>A</b>	<b><u>EARTH WORK</u></b>						
<b>A1A</b>	Dismantling of existing ponds including removing flooring stones, cutting & removing p.c.c below flooring stones transporting.	Cum	<b>500.00</b>				
<b>A1</b>	Clearing the Site manually / mechanically by making the ground to condition and disposing of the vegetation far off the site	Sqm	<b>240.00</b>				
<b>A2</b>	Earth work excavation manually / by machinery for foundations, sumps, etc in all types of soils up to a depth of 2 metre from existing ground level including all operational and incidental charges, shoring, strutting, dewatering, hire charges of T & P, labour charges, seigniorage charges etc., and disposing the earth with in a distance of 500m in low laying areas below finished ground level complete for finished item of work as directed by the Engineer-in-charge .	Cum	<b>480.00</b>				
<b>A3</b>	Same as item No A2 for earth work in all types of soil for a depth of 2 metre to 4 metre from existing ground level.	Cum	<b>240.00</b>				
<b>A4</b>	Hard rock cutting manually /by machinery for foundations, sumps, septic tanks etc in hard rock and boulders by benching, chiselling, wedging and boring in rock, power drilling and stacking ( excavated rock to be stacked and 40% volume to be deducted for voids) including grade levelling upto a maximum depth of 3.0m including all operational charges and incidental charges, dewatering, hire charges of T&P, labour charges, Seigniorage charges etc and disposing the rock around the building low laying areas below finished ground level complete for fininshed item of work as directed by the Engineer-in-charge .	Cum	<b>0</b>				



<b>A5</b>	Refilling with useful available excavated earth (excluding rock) in trenches, sides of foundations and basement in layers not exceeding 300 mm thick, consolidating each deposited layer by watering and ramming, including all operational, incidental, labour charges, hire charges of T & P etc., complete for finished item of work.	Cum	<b>292.00</b>				
<b>A6</b>	Supply and filling with red gravel/ murrum in layers not more than 300mm thick and hydraulically consolidated, in plinths, pits, foundations,below flooring and other purposes, including cost and conveyance of all materials, including compaction complete for finished item of work and as directed by the engineer.						
	a) Brought from outside	Cum	<b>360.00</b>				
<b>A7</b>	300mm thk. Course sand bed below footing	Cum	<b>30.00</b>				
<b>B</b>	<b>CONCRETE</b>						
<b>B1</b>	Providing plane cement concrete <b>M10 grade R.M.C</b> under foundations and under flooring including cost and conveyance of all materials like sand, coarse aggregate, water etc. to site, cost of seigniorage charges, sales and other taxes on all materials and including all operational, incidental, labour charges for machine mixing, laying concrete in foundations, ramming in 150mm thick layers including shuttering, finishing top surface to required level, curing etc., complete for finished item of work. a) Footings, basement, floorings etc.,	Cum	<b>27.00</b>				
<b>B2</b>	Providing Vibrated Reinforced Cement Concrete <b>M25 grade R.M.C</b> for all concrete works like Footings,columns,plinth beams,base slab & beams and RCC walls etc., cost of seigniorage charges and all other taxes on all materials, and including all operational, incidental charges, labour charges, scaffolding,centering, shuttering, deshuttering, machine mixing, laying concrete, machine vibrating, lift charges, curing, finishing the concrete surface, filling honeycombs with C.M 1:3 etc.,complete finished item of work by using <b>RMC</b> as directed by Engineer-in-charge.						
<b>a)</b>	<b>Footings</b>	Cum	<b>33.00</b>				
<b>b)</b>	<b>Pedestals</b>	Cum	<b>16.00</b>				
<b>c)</b>	<b>Plinth beams</b>	Cum	<b>4.50</b>				
<b>B3</b>	Fabrication and fixing in position of High Yield Strength Deformed steel bars ( <b>Fe 500</b> grade as per IS 1786-1979) for RCC works of different diameter and sizes, bending rods to required sizes and shapes, placing grills in position with cover blocks, tying grills with binding wire for reinforcement work as per approved designs and drawings and all incidental, operational and labour charges including cost of 18 gauge MS binding wire, lift charges etc complete for finished item of work as directed by the engineer.	M.Ts	<b>7.50</b>				
<b>B4</b>	Providing, fabrication, placing in position, tying to the pedestal reinforcement, Tack welding to avoid displacement during concreting anchor bolts of grade 8.8 as per the detail provided, including template etc as per requirement and as directed by the engineer incharge	kgs	<b>750.00</b>				
<b>B5</b>	<b>R.C.C FLOORING/SURFACE FINISHING</b>						

1	<b>SLIP MEMBRANE:</b> Supply and application of Slip membrane / Vapour Barrier LDPE Sheeting of 200 micron thick with effective adequate overlapping on both sides.	sqm	119.00				
2	<b>Construction Joints_Dowelled Joint :</b> Supply and installation of <b>DD6 diamond dowel with PVC Sleeve and MS plate</b> at open day joint for better load transfer mechanism at <b>required spacing of 450mm c/c.</b>	Nos	13				
3	<b>Parallel Plate for Edge Protection :</b> Supply and installation of parallel plate steel joint at vehicle movement area on joints for edge protection and better load transfer mechanism.	Rmt	2.38				
4	<b>Laser Screed Flooring (150mm thick) :</b> Installation of form work to required level, compacting using mechanical vibrators, Laser screeding, checking on levels with laser guided level tool, carrying out tooling with bull float and bump cutter to remove excess high spots in the concrete, finishing smooth with power trowels and final finishing with ROT.	sqm	119.00				
5	<b>Dry shake non-metallic floor hardener :</b> Supply and broadcasting non-metallic floor hardener with mechanised wagon cart at a dosage rate of 3.5 - 4kg/sqmt to increase abrasion resistance of the floor. <b>(Make : BASF/SIKA/MYK/FOSROC/Equivalent)</b>	sqm	119.00				
6	<b>Saw Cut Joints :</b> Cutting grooves of size 4mm x 35mm with mechanised diamond wheel at panel size of regular intervals for expansion and contraction in concrete within early set stage and <b>filling the same to the top 10-12mm with PS/PU sealant supported with 6mm backer rod below.</b> <b>(Sealant Make : BASF-MBCC/SIKA/MYK/Equivalent)</b>	Rmt	56.67				
7	<b>Isolation Joints for columns :</b> Supply and installation of <b>20mm thick isolation joint with compressible board to columns,</b> cutting the board to FFL and sealing the top 10mm with PS/PU sealant.	Rmt	21.00				
8	<b>STEEL FIBER REINFORCEMENT :</b> Providing & mixing 80/60BG Hooked End and non Glued Non balling Steel fibres Aspect ratio 80 Length 60mm and dia 0.75 mm @ 15Kg Per Cumt.	Kgs	270.00				
9	<b>Compaction Test with LWD :</b> Testing compaction by measuring deflections with portable impulse plate load tst device. Testing method (ASTM) E2835-11 (2015), testing equipment must produce results instantly on site with deflection graph and EVD values for compaction assurance at evenly 2 tests per 500 sqm area or 2 test per construction panel. <b>(Test to be conducted 5 days prior to concreting work)</b>	Nos	2.00				
10	<b>Densification/Dust-proofing treatment of floor :</b> Providing dust proofing over concrete Flooring including cleaning & drying the base surface, applying with Densifier (Make MYK/BASF/ Equivalent). Including Polishing the surface with resin pads using Polishing machines with Planetary motion resulting to antiskid, densified dust proof floor.	sqm	119.00				
11	<b>Concrete RMC M30 :</b> Supply of RMC M30 with pure OPC, No fly ash with retention time of 2-3hrs including spreading the concrete to all edges and corner.	Cum	18.00				

<b>C</b>	<b><u>MASONRY</u></b>						
<b>C1</b>	Construction of 300 mm thk Solid cement block masonry walls in CM (1:4) for Composite Plinth Beams including cost and conveyance of all materials like Cement, sand, Solid blocks, water etc. to site, cost and seigniorage charges on all materials, including all labor charges, like mixing cement mortar, scaffolding charges, lift charges curing etc., and complete for finished item of work.		<b>10.00</b>				
	<b>Total Amount</b>						