

**Name of work: Annual Maintenance Contract for Minor and Petty works at  
NCBS for the year 2017-2018 (Civil & PH Works)**

**Schedule of Quantity**

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
	<b>Civil Works</b>				
<b>A</b>	<b>Earth work</b>				
	<p>NOTES FOR EARTHWORK ITEMS: No working space shall be considered beyond the width of the foundation concrete (mud-mat) shown in the drawings. The contractor shall consider working space if required while quoting the rate. The quoted rate shall include the quantity of earthwork to be done for working space if required and also for re-filling the foundation. For payment, the measurement shall be restricted only to the foundation width shown in the drawings. No extra shall be permitted and measured for payment on account of working space / battering / benching for excavation and refilling around foundation.</p>				
1	Earth work in excavation by mechanical means (hydraulic excavator) / manual means OVER AREAS (exceeding 30cm in depth, 1.50m width as well as 10sqm on plan) in ALL KINDS OF SOILS up to a depth not exceeding 1.50m including disposal of excavated earth, lead up to 50m and lift up to 1.50m etc., complete all as per specifications. (Disposed earth to be levelled by breaking clods if any and neatly dressed).	Cum	50.00		
	<b>Rate in Words</b>				
2	Earthwork in excavation by mechanical means (hydraulic excavator) / manual means for FOUNDATION TRENCHES in ALL KINDS OF SOILS including dressing of sides, ramming of bottom, disposing the surplus excavated materials within a distance of 50m and lift 1.50m complete as per specifications. (Disposed soil to be levelled by breaking clods if any and neatly dressed).	Cum	30.00		
	<b>Rate in Words</b>				
3	Extra for excavation over areas / foundation trenches in ALL KINDS OF SOILS for each additional depth of 1.5m or Part thereof over initial depth of 1.5m.	Cum	10.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
4	Filling available excavated approved earth (excluding rock) in trenches, sides of foundations, plinth, etc; in layers not exceeding 15cms depth breaking clods, consolidating each deposited layer by ramming, watering and dressing, etc; complete for lead upto 50m and all lifts etc., complete as per specifications.	Cum	60.00		
	<b>Rate in Words</b>				
5	Earthwork in SURFACE EXCAVATION in ALL KINDS OF SOILS not exceeding 30cm in depth but exceeding 1.50m in width as well as 10sqm on plan wherever necessary and disposal of excavated earth, lead up to 50m and lift up to 1.50m (disposed soil to be levelled and neatly dressed) complete as per specifications.	Sqm	50.00		
	<b>Rate in Words</b>				
6	SURFACE DRESSING of the ground IN ALL KINDS OF SOILS including removing vegetation and inequalities not exceeding 15cm depth and disposal of rubbish lead up to 50m and lift up to 1.50m (disposed earth to be levelled by breaking clods if any and neatly dressed) etc; complete all as per specifications.	Sqm	50.00		
	<b>Rate in Words</b>				
<b>B</b>	<b>Masonry</b>				
1	Providing and constructing RANDOM RUBBLE MASONRY using hard granite stones obtained from approved quarry with bond stones at every 0.50sqm of wall surface in cement mortar in mixes stipulated below without pinning on face, but including raking out joints and pointing flush in same mortar including curing, etc; complete as per specifications in FOUNDATION AND PLINTH. (Rate includes cost of bond stones wherever provided). (Mix ratio specified is for cement : coarse river sand)				
1a	In cement mortar 1:6	Cum	10.00		
	<b>Rate in Words</b>				
1b	In cement mortar 1:3	Cum	5.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
2	Providing and constructing RANDOM RUBBLE MASONRY using hard granite stones obtained from approved quarry with bond stones at 2m apart in cement mortar in mixes stipulated below without pinning on face, but including raking out joints including curing, scaffolding, etc; complete as per specifications IN SUPERSTRUCTURE UPTO FLOOR FIVE LEVEL. (Rate includes cost of bond stones wherever provided. The mix ratio specified is for cement : coarse river sand.) Dressing of stones and quoins shall be as follows:				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
	<p>DRESSING: Stone shall be hammer dressed on the face, the sides and the beds, to enable it to come into close proximity with the neighbouring stone. The bushing in the face shall not project more than 4cm on an exposed face and 1cm on a face, to be plastered. The hammer dressed stone shall also have a rough tooling for a minimum width of 2.5cm along the 4 edges of the face of stone.</p> <p>Quoins: Neatly dressed with the hammer or chisel to form the required angle and laid header and stretcher alternately. These stones shall have a minimum of 2.5cm wide chisel draft at 4 edges, all the edges being in the same plane.</p>				
2a	In cement mortar 1:6	Cum	5.00		
	<b>Rate in Words</b>				
2b	In cement mortar 1:3	Cum	5.00		
	<b>Rate in Words</b>				
3	Providing and constructing BRICK MASONRY in cement mortar as per mixes stipulated below using approved well burnt bricks of class designation (Classification as per IS 1077-1986) as specified below, including raking out joints 10mm deep wherever required curing, etc; complete all as per specifications in FOUNDATION AND PLINTH. (The mix ratio specified is for cement : coarse river sand)				
3a	Using bricks of class designation '5.0' (minimum average compressive strength not less than 5.0N/sqmm) in cement mortar 1:6	Cum	3.00		
	<b>Rate in Words</b>				
4	Providing and constructing HALF BRICK MASONRY walls/partitions in following mixes using approved well burnt bricks of class designation (Classification as per IS 1077) as specified below, including scaffolding, raking out joints, curing, etc; all as directed by the engineer-in-charge in SUPERSTRUCTURE UPTO FLOOR FIVE LEVEL. (The mix ratio specified is for cement : coarse river sand)				
4a	Using bricks of class designation '5.0' (minimum average compressive Strength not less than 5.0N/sqmm) in cement mortar 1:4	Sqm	15.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
5	Providing and constructing Solid Cement Concrete Block masonry in cement mortar 1:6 (cement : coarse river sand) using factory made, load bearing, approved quality cement concrete blocks of specified size, Grade C (4.0), as per IS 2185 (Part 1), density of blocks not less than 1800kg/cum, minimum average compressive strength of units is 4.0N/mm <sup>2</sup> and minimum strength of individual unit is 3.2N/mm <sup>2</sup> , setting in position, curing, raking out joints wherever required etc., complete all leads and all as per specifications and directions of engineer-in-charge in FOUNDATION AND PLINTH.				
5a	For 200mm thick walls using (400x200x200)mm size blocks	Cum	5.00		
	<b>Rate in Words</b>				
5b	For 150mm thick walls using (400x150x200)mm size blocks	Cum	5.00		
	<b>Rate in Words</b>				
6	Providing and construction Solid Cement Concrete block masonry in cement mortar 1:6 (1 cement : 6 coarse sand) using factory made, load bearing, approved quality, Grade D (4.0) Density of blocks not less than 1800 kg/cum. Minimum average compressive strength of units 4.0 N/sqmm and minimum strength of individual unit is 3.2 N/sqmm, set to level plumb including setting in position, providing scaffolding, curing, raking out joints wherever necessary etc., complete with all leads and all as per specification and direction of Engineer-in-charge. IN SUPERSTRUCTURE UPTO FLOOR V LEVEL				
6a	For 200mm thick walls using (400x200x200)mm size blocks.	CUM	5.00		
	<b>Rate in Words</b>				
6b	For 150mm thick walls using (400x150x200)mm size blocks.	CUM	5.00		
	<b>Rate in Words</b>				
<b>C</b>	<b>Plain Cement Concrete</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
1	Providing and laying cement concrete using 40mm nominal size graded hard granite stone aggregate obtained from approved quarry including compaction, finishing top surface to level, curing, cost of formwork, etc; complete as per specifications. Mix ratio specified is for cement : coarse river sand : graded stone aggregate. IN FOUNDATION AND PLINTH/SUB-BASE TO FLOORS.				
1a	PCC 1:4:8	Cum	5.00		
	<b>Rate in Words</b>				
1b	PCC 1:3:6	Cum	5.00		
	<b>Rate in Words</b>				
2	Providing and laying cement concrete using 20mm nominal size graded hard granite stone aggregate obtained from approved quarry including compaction, finishing top surface to level, curing, cost of formwork, etc; complete all as per specifications. Mix ratio specified is for cement : coarse river sand : graded stone aggregate. IN FOUNDATION AND PLINTH/SUB-BASE TO FLOORS.				
2a	PCC 1:3:6	Cum	10.00		
	<b>Rate in Words</b>				
2b	PCC 1:2:4	Cum	5.00		
	<b>Rate in Words</b>				
<b>D</b>	<b>Reinforced Cement Concrete</b>				
1	Providing and laying in position REINFORCED CEMENT CONCRETE using graded hard granite stone aggregate of 20mm nominal size obtained from approved quarry including mechanical mixing, vibrating, compaction, finishing, curing, etc; complete all as per specifications but excluding the cost of form works and steel reinforcement. (Rate to include labour for keeping embedment if any, wherever required while casting). Mix ratio is specified is for cement : coarse river sand : graded stone aggregate. ALL WORKS UPTO PLINTH LEVEL with				
1a	RCC 1:2:4	Cum	2.00		
	<b>Rate in Words</b>				
1b	RCC 1:1.5:3	Cum	2.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
2	Providing and laying in position REINFORCED CEMENT CONCRETE using graded hard granite stone aggregate of 20mm nominal size obtained from approved quarry including mechanical mixing, vibrating, compaction, finishing, curing, etc; complete all as per specifications but excluding the cost of form works and steel reinforcement. (Rate to include labour for keeping embedment if any, wherever required while casting). Mix ratio is specified is for cement : coarse river sand : graded stone aggregate, UPTO FLOOR FIVE LEVEL. In walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc., with				
2a	RCC 1:2:4	Cum	2.00		
	<b>Rate in Words</b>				
2b	RCC 1:1.5:3	Cum	5.00		
	<b>Rate in Words</b>				
3	Providing and laying in position REINFORCED CEMENT CONCRETE using graded hard granite stone aggregate of 20mm nominal size obtained from approved quarry including mechanical mixing, vibrating, compaction, finishing, curing, etc; complete all as per specifications but excluding the cost of form works and steel reinforcement. (Rate to include labour for keeping embedment if any, wherever required while casting). Mix ratio is specified is for cement : coarse river sand : graded stone aggregate UPTO FLOOR FIVE LEVEL IN beams, suspended floors, roofs having slope up to 15 <sup>o</sup> , landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases etc., with:				
3a	RCC 1:2:4	Cum	2.00		
	<b>Rate in Words</b>				
3b	RCC 1:1.5:3	Cum	2.00		
	<b>Rate in Words</b>				

<b>Sl. No.</b>	<b>Description of the item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
4	Providing and fixing M-20 grade Precast Reinforced Cement Concrete using graded hard Granite stone aggregate of 20mm nominal size obtained from approved quarry including mechanical mixing, centering and shuttering, compaction, simultaneously finishing smooth with 6mm thick cement plaster 1:3 (cement : fine sand) on exposed surfaces and fixing in position with same CM 1:3, curing etc., complete all as per specifications but excluding cost of steel reinforcement UP TO FLOOR FIVE LEVEL.				
4a	Kerbs, edging and the like	Cum	25.00		
	<b>Rate in Words</b>				
<b>E</b>	<b>Formwork</b>				
	NOTES FOR FORM WORKS: Rates for all form work items to include staging as may be necessary from FFL (Finished Floor Level) of Ground Floor (in case of basement from FFL of basement) or NGL (Natural Ground Level). Rates for E005, E010 and E020 are considering for an initial height of 3.5m or FLOOR TWO LEVEL.				



Sl. No.	Description of the item	Unit	Qty	Rate	Amount
1	Providing rigid and water tight CENTERING AND SHUTTERING using best quality wood/plywood/ steel forms and centering with steel props, acro tubes etc., including strutting, propping, bracing, staging etc., complete for all RCC items fixed in position as required including labour for careful removal of form work etc., complete all as per specifications at all heights. In horizontal / vertical/ slanting surfaces.				
1a	Suspended floors, roofs, landings, shelves and their supports, balconies and chajjas	Sqm	10.00		
	<b>Rate in Words</b>				
2	Providing rigid and water tight CENTERING AND SHUTTERING using best quality of shuttering ply wood, steel centering sheets with steel props, acrotubes etc., including strutting, propping, bracing, staging, etc; complete for all RCC items fixed in position as required to obtain PLAIN EXPOSED FORM FINISH, including labour for careful removal of formwork etc; complete all as per specifications for all heights. In horizontal / vertical / slanting surfaces.				
2a	Columns, pillars, piers, struts, mullions, etc.	Sqm	10.00		
	<b>Rate in Words</b>				
<b>F</b>	<b>Structural &amp; Reinforced Steel</b>				
1	Steel reinforcement for all RCC items including decoiling, cutting, hooking, bending, cranking, fabricating to required shape, placing in position and tying the system with soft drawn annealed GI binding wire of diameter not less than 1.00mm with 2 strands etc; complete all as per specifications at all heights (binding wire will not be measured for payment).				
1a	Thermo-Mechanically Treated (TMT) bars - Fe500	Mt	1.00		
	<b>Rate in Words</b>				
2	Supplying, fabricating and erecting in position <b>steel works in single sections</b> including cutting, hoisting, fixing in position, applying a priming coat of red oxide zinc chromate primer and painting with two coats synthetic enamel paint, using bolts, nuts as necessary all as per drawings and specifications at all heights.				
2a	In plates of all thickness	Mt	0.50		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
2b	In Channels	Mt	1.00		
	<b>Rate in Words</b>				
2c	In flats of all thicknesses	Mt	1.00		
	<b>Rate in Words</b>				
2d	In Angles, Tees, and other Sections.	Mt	1.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
3	Labour charges only for fabricating and erecting in position steel work in single sections including cutting, hoisting, fixing in position, applying a priming coat of red oxide zinc chromate primer and painting with two coats of synthetic enamel paint using bolts, nuts as necessary at all heights as per specifications for in RS joists / plates / channels / flats / angles / tees / other sections etc.	Mt	2.00		
	<b>Rate in Words</b>				
4	Supplying, fabricating, assembling, hoisting / erecting and fixing in position at all heights and with all leads, structural steel works of welded built-up sections, all as per structural drawings and as per detailed specifications (for materials and workmanship) in the situations described hereinafter including a) cutting of components to required lengths / widths and shapes/profiles, b) smooth machining of edges / faces, c) welding (electric arc welding) at joints of built-up sections/ single sections for required weld lengths and sizes and d) painting all over with two coats of Synthetic enamel paint of approved quality, make and colour/shade over one coat of red oxide zinc chromate primer with surfaces duly prepared to receive painting etc., complete all as directed by the engineer-in-charge.				
	NOTE : The contractor shall submit fabrication shop drawings for work involved based on construction drawings (that may be issued during construction period) for approval by engineer-in-charge. The fabrication work shall start only after approval to the fabrication drawings. Any change required in the fabrication drawings shall be carried out at no extra cost over the quoted rates. Fabrication shall be in a perfectly workmanship like manner and as provided in Section V and VI of IS 800 and IS 7215. Welding shall be carried out by qualified welders. Electrodes for welding, the procedure, selection, test and inspection shall conform to provisions in IS 816, IS 818, IS 822, and IS 833. Erection/hoisting shall commence only after passing of fabricated parts by the engineer-in-charge.				
4a	Structural steel works and welded built up sections in items as per specification but with <b>MS Plates</b> of any thickness	Mt	0.25		
	<b>Rate in Words</b>				

<b>Sl. No.</b>	<b>Description of the item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
4b	Structural steel works in welded built-up sections of roof purlins, side cladding supports, roof purlins/ truss bracings and tie runners, gutter supports, glazing supports and the like fabricated with <b>MS Flats</b> of any thickness and size and <b>MS rods</b> as in sag rods/ tie rods of any diameter	Mt	0.25		
	<b>Rate in Words</b>				
4c	Structural steel work of <b>MS bed plates</b> and base plates of any thickness welded to stanchions / columns	Mt	0.25		
	<b>Rate in Words</b>				
4d	Structural steel works as per specification but with <b>MS Channels</b>	Mt	0.50		
	<b>Rate in Words</b>				
4e	Structural steel works as per specification but with <b>MS angles, tees</b> and other sections	Mt	0.50		
	<b>Rate in Words</b>				
4f	Structural steel works as per specification but with medium class <b>MS pipes</b> of any diameter, including bending the pipes	Mt	1.00		
	<b>Rate in Words</b>				
4g	STEEL WORK IN BUILT UP/TUBULAR TRUSSES, etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete, and as per specification 4	Mt	1.00		
	<b>Rate in Words</b>				
<b>H</b>	<b>Flooring</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
	<p>NOTES FOR MARBLE / GRANITE FLOORING ITEMS:</p> <p>1) The brand name / local name specified for coloured marble / slabs / granite stone slabs are meant for the approved quality available in the region.</p> <p>2) White cement wherever specified for items shall be of Birla White or equivalent.</p> <p>3) The newly laid floor shall be protected with a layer of gypsum / POP (Plaster of Paris) laid over a polythene sheet by covering the entire finished surface as directed till the finished items like painting / polishing etc. are completed inside the building. This shall be done irrespective of whether mention has been made in the individual flooring items or not at no extra cost.</p>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
1	Providing and laying <b>cement concrete in pavements and ramps</b> in panels not exceeding 10sqm per panel and plinth protection in panels not exceeding 3sqm per panel using graded hard granite stone aggregate including providing necessary formwork, making 10mm wide grooves in panels for depth of 1 / 3 rd of thickness of pavement or 40mm whichever is more and filling the grooves with approved hot poured sealing compound conforming to grade A or B of IS-1834, consolidation, curing and treatment for the top with broom finish, etc; complete all as per specifications, mix ratio specified is for (cement : coarse river sand : graded stone aggregate).				
1a	Using 20mm nominal aggregate in <b>CC 1:3:6</b>	Cum	5.00		
	<b>Rate in Words</b>				
1b	Using 20mm nominal aggregate in <b>CC 1:2:4</b>	Cum	5.00		
	<b>Rate in Words</b>				
2	Providing and laying Indian Patent Stone Flooring with cement concrete 1:2:4 (cement : coarse river sand : graded stone aggregate) using graded granite stone aggregate obtained from approved quarry laid to level or slope in bays not exceeding 3sqm per panel including providing 3mm thick aluminium dividing strips to the full depth of the flooring and finished smooth with float coat of cement at 4.4kg/sqm, curing, etc., complete all as per specifications.				
2a	40mm thick (using 20mm nominal size stone aggregate)	Sqm	5.00		
	<b>Rate in Words</b>				
2b	50mm thick (using 20mm nominal size stone aggregate)	Sqm	5.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
3	Providing and laying 20 to 30 mm thick polished KOTA stone slab flooring/ skirting/ dadoing/ riser/ tread using slabs, machine cut to required size, laid over a bed of 20mm thick cement mortar 1:4, and cement slurry at the rate of 4.4 kg/sqm for bedding and 2kg/sqm for joints, close jointed and pointed with grey cement slurry mixed with pigments to match the shade of the slabs, finishing to required level and slope, curing, rubbing, cleaning with oxalic acid and wax polishing etc; complete all as per specifications.				
3a	in flooring	Sqm	5.00		
	<b>Rate in Words</b>				
3b	In Dados, treads, risers and edges of landings	Sqm	3.00		
	<b>Rate in Words</b>				
4	Providing and laying Ceramic tile flooring / dadoing of First/premium Quality , size, colour and thickness according to the dimensions of tiles and having scratch hardness and other parameter conforming to IS 15622-2006 group BII/BIII, respectively for flooring and dadoing, of Somany/jhonson/AGL/kajaria/beell/Naveen/s partex or equivalent make laid over a bed / backing as specified below, with cement slurry at 3.30kg /sqm, close jointed and pointed with matching white cement slurry mixed with approved pigment and finishing to required level, curing etc., complete all as per specification and as directed by engineer-in-charge at all floors.				
4a	in flooring with approved glossy antiskid plain ceramic floor tiles size 300mm X 300mm/306 mm/306mm as per IS 15622-2006 Group B II, over bed backing of 20mm thick in CM 1:4.	Sqm	10.00		
	<b>Rate in Words</b>				
4b	in dado with approved glossy printed wall tiles size 300mm X 450 mm as per IS 15622-2006 over a bed backing of 12mm thick in CM 1:3.	Sqm	10.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
5	<p>Providing and laying cement concrete interlocking paver blocks flooring using 60mm thick blocks of approved shape, size and colours with required combination of colours of blocks having load bearing strength not less than M20 grade manufactured by M/s. Besser Blocks / M/s. Nitco / M/s. Malu Group or equivalent, close jointed over bed of 75mm thick river sand to a tight pattern, laid to proper line and level including bedding down the completed surface with a plate vibrator or by firmly topping level with mallet and a large flat piece of timber, finishing by brushing clean dry sand over the surface to fill all the joints thoroughly including fixing the edge restraint laying blocks etc., complete all as per manufacturers specifications and directions of engineer-in-charge. (Rate to include cost of paver blocks, sand and labour etc.). The arrangement of pattern of blocks shall be as per architectural drawings.</p>	Sqm	25.00		
	<b>Rate in Words</b>				



<b>Sl. No.</b>	<b>Description of the item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
5a	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material with lead as per direction of Engineer-in-Charge.	Sqm	100.00		
	<b>Rate in Words</b>				
5b	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including cost for 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	Sqm	100.00		
	<b>Rate in Words</b>				
6	Providing and laying pre-polished decorative designer cement concrete tiles of thickness (22 ±2mm) of M/s. EUROCON tiles of equivalent conforming to IS 1237-1980 of approved tiles over a bed of 25mm thick cement mortar 1:6 with cement slurry at 3.3 kg /sqm jointed and pointed with matching grey / white cement slurry mixed with matching pigment and finishing to required level, curing, etc., complete all as per manufacturers specifications, drawing and direction of engineer-in-charge.	Sqm	5.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
7	Providing and laying 16 to 18mm thick +1mm tolerance mirror polished granite stone slabs flooring of approved colour and shade using mirror polished granite stone slabs of size 1800mm x 1200mm / 1800mm x 2400mm and smaller sizes as per the site conditions (cut from the bigger sizes of mirror polished water jet cut stone slab stone slab of approximate size 6.5ft x 10.5ft) approved colour / texture and pattern of RANDOM GRANITE SLABS, water cut quality, machine cut to required size, laid over a bed of 20mm thick cement mortar 1:6 and cement slurry at the rate of 4.4kg/sqm for bedding and jointing including grouting the joints with pigments to match the shade of the slabs, finishing to required level, curing, cleaning, mopping, etc; complete all as per specifications at all heights in all floors.				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
7a	Flooring cut to required size from bigger gang size slabs of colour Lavva red/Green pal/tropical brown/jet black	Sqm	7.00		
	<b>Rate in Words</b>				
7b	Staircase risers / treads with lacca red/Green pal/tropical brown/jetblack colour granite slab	Sqm	3.00		
	<b>Rate in Words</b>				
7d	Skirting 125mm high with Lacca red /green pal/Tropical brown/ Jet Black colour red granite slab	Rmt	10.00		
	<b>Rate in Words</b>				
8	Providing and laying vitrified tile flooring / skirting using first/premium quality vitrified tiles conforming to IS:15622 - 2006 Group B I a, having straight cut edges for paper joints of approved size and thickness in all colours, shades and of makeSomany/Johnson/AGL/Kajaria/Spartek /Regency/ Navin/ Bell or equivalent brand, laying the tiles over a bed of 20mm thick cement mortar 1:3 with cement slurry @ 3.3kg /sqm., close jointed and pointed with matching white cement slurry with approved pigment, finishing to required level, cur-ing etc. as per manufacturer's specifications, draw-ings etc. at all heights for:				
8a	Vitrified tile, Polished Double charged with nano tech in light series of size 600mm (±5mm) x600mm (±5mm)x 9to9.5mm (±0.5mm) thick	Sqm	600.00		
	<b>Rate in Words</b>				
9	Extra for fixing marble / granite stone over and above corresponding basic item, in facia and drops of width up to 150mm with epoxy resin based adhesive (Araldite or equivalent) including cleaning etc. complete	RMT	5.00		
	<b>Rate in Words</b>				
<b>K</b>	<b>Finishing</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
	<p>NOTES FOR FINISHING WORKS: Unless and otherwise specified:</p> <ol style="list-style-type: none"><li>1) Plaster mix specified is for cement : fine sand.</li><li>2) The wording "more coats" indicate the additional coats to be painted, wherever the desired finish has not been achieved after the application of the specified number of coats given. No extra payment will be made for the additional coats required to be rendered on account of the above.</li><li>3) Rates for all finishing items and lift charges from FFL / GL for all heights, depths and levels.</li><li>4) All the RCC faces like beam, slab, lintels, columns, flush with internal or external wall faces are plastered with CM 1:5 and measured under wall plastering and not under item of CM 1:4 for RCC surfaces.</li></ol>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
1	Plastering 12mm thick with cement mortar specified below, finished smooth with lime neeru, including scaffolding, curing, etc; complete for INTERNAL SURFACES of walls, beam, ribs, sills, jambs, ceiling, etc; complete all as per specifications at all heights. Mix specified is for cement : fine sand. NOTE: CM 1:3 OR CM 1:4 is generally applicable for ceilings and RCC surfaces unless otherwise specified:				
1a	with CM 1:6.	Sqm	50.00		
	<b>Rate in Words</b>				
2	Plastering 12mm thick with cement mortar specified below, finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES inclusive of sills, jambs, soffits, ceilings, etc; complete all as per specifications for heights up to 10m above GL, mix specified is for cement : coarse river sand. NOTE: CM 1:3 OR CM 1:4 are generally applicable for ceilings and RCC surfaces unless otherwise specified.				
2a	with CM 1:6	Sqm	25.00		
	<b>Rate in Words</b>				
3	Plastering 15mm thick with cement mortar specified below finished rough including scaffolding, curing, etc; complete for EXTERNAL SURFACES of walls, inclusive of sills, jambs, soffits, etc; complete all as per specifications for heights up to 10m above GL, mix specified is for cement : coarse river sand. NOTE: CM 1:3 OR CM 1:4 are generally applicable for ceilings and RCC surfaces unless otherwise specified.				
3a	With CM 1:6	Sqm	25.00		
	<b>Rate in Words</b>				
4	Water proof cement plastering of thickness as specified below in cement mortar 1:3 (cement : coarse river sand) mixed with approved water proofing compound such as CICO or ACCOPROOF or equivalent as per manufacturers specifications including scaffolding, curing, etc; complete for EXTERNAL SURFACES all as per specifications for heights up to 10m above GL.				
4a	12mm thick	Sqm	25.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
5	Painting wood work with TWO or more coats of SYNTHETIC ENAMEL PAINT of first quality and approved colour to give an even shade over a coat of synthetic enamel primer including cleaning the surfaces, filling the crevices with approved filler, applying a coat of approved putty on whole surface and rubbing the surface to achieve desired smooth surface, scaffolding, etc; complete all as per specifications. (Rate to include cost of synthetic enamel primer, putty also).	Sqm	50.00		
	<b>Rate in Words</b>				
6	Painting steel work with TWO or more coats of SYNTHETIC ENAMEL PAINT of first quality and approved colour to give an even shade over a coat of red oxide zinc chromate primer including cleaning the surfaces, applying a coat of approved putty on whole surface and rubbing the surface to achieve desired smooth surface, scaffolding, etc; complete all as per specifications (Rate to include cost of zinc chromate primer, putty also).	Sqm	50.00		
	<b>Rate in Words</b>				
7	Painting wood / steel work with one or more coats of SYNTHETIC ENAMEL PAINT of first quality and approved colour to give an even shade including cleaning the surfaces, filling the crevices with approved filler, scaffolding, etc; complete all as per specification.	Sqm	200.00		
	<b>Rate in Words</b>				
8	Painting internal plastered surfaces with two or more coats of super acrylic emulsion paint of approved brand and colour (Berger or Asian or equivalent) to give an even shade with required finish over a coat of water thinnable cement primer including cleaning the surfaces, filling the crevices with approved filler, scaffolding, etc., complete all as per specifications.	Sqm	2,000.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
9	Painting external plastered surfaces with two or more coats of 100% acrylic exterior emulsion paint of approved make and colour (weather coat of Berger or apcolite apex of Asian or equivalent) having protection against fungal growth, flaking, fading, alkali and UV degradation and to give an even shade with required finish including cleaning the surfaces, applying one coat of primer, filling the crevices with approved filler, scaffolding, etc., complete all as per specifications.	Sqm	200.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
10	Providing and applying PLASTER OF PARIS PUTTY (BIRLA PUTTY) of 2mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	200.00		
	<b>Rate in Words</b>				
<b>L</b>	<b>Miscellaneous</b>				
1	Providing and fixing STAINLESS STEEL (Grade 316) FLY PROOF MESH of size 1/16" x 24 gauge including fixing with first class seasoned teak wood (with a maximum permissible moisture content 12%)beading of size 62 x 19mm etc; complete all as per specifications	Sqm	5.00		
	<b>Rate in Words</b>				
2	Supplying and fixing <b>aluminium anodised mortice lock</b> 6 levers 100mm conforming to I.S 2209 'Godrej' or equivalent make, straight edged bevelled or rotated as required, right or left handed as directed, suitable either to single or double leaf shutters including making necessary recess in shutter and fixing the mortice lock with aluminium anodised steel screws, etc; complete all as per specifications.	Each	5.00		
	<b>Rate in Words</b>				
3	Supplying and fixing <b>hydraulic floor spring</b> conforming to IS 6315-92 floor type door closure (EVERITE or equivalent) metallised coating on pivot suspension with ball bearings and adjustable on all six sides of type as specified below including fixing in position and adjusting for free and smooth movement etc., complete all as per the manufacturer's specifications and directions of engineer-in-charge in all floors at all heights.				
3a	Heavy duty with top plate size (318x197x2)mm, foundation box size (305x184x70)mm and lever size (250x25x15)mm.	Each	2.00		
	<b>Rate in Words</b>				
3b	Light duty with top plate size (237x130x2)mm, foundation box size (225x116x68)mm and lever size (250x25x15)mm	Each	2.00		
	<b>Rate in Words</b>				
4	Providing and fixing door closures of DORMA or equivalent for doors opening upto 1,2mtr width including necessary screws etc., and as directed by EIC	Each	15.00		



Sl. No.	Description of the item	Unit	Qty	Rate	Amount
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
<b>M</b>	<b>False Ceiling</b>				
1	Providing and fixing at all height in all floor with all lead seamless type M/F suspended False ceiling of India Gypsum or equivalent using GI perimeter channel of size 0.55mm thick (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling, screws fixed to brick wall / partition with the help of nylon sleeves and screws at 610mm centres. Then suspending GI intermediate channels of size 45mm (0.9mm thick with two flanges of 15mm each) from the soffit at 1220mm centres with ceiling angle of width 25mmx10mmx0.5mm thick fixed to soffit with GI cleat and steel expansion fasteners. Ceiling section of 0.55mm thickness having knurled web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to the intermediate channel with the help of connecting clip and in direction of perpendicular to the intermediate channel at 5\457mm centres. 12.5mm tapered edge gypboard (conforming to IS 2095-1982) is then screw fixed to ceiling section with 25mm dry wall screws at 230mm centres.	Sqm	250.00		
	<b>Rate in Words</b>				
	Screws fixing is done mechanically either with screw driver or drilling machine with suitable attachment. Finally the boards of 12.5mm thick gyp board are to be jointed and finished so as to have a flush look which includes filling and finishing the tapered and square edges of the boards with jointing compound, joint paper tape and two coats of drywall topcoat suitable for gypboard including providing scaffolding and executing the work at all heights. (Please refer drawing for details and recommended practices of India Gypsum or equivalent).				
	<b>NOTE:</b> For lighting fittings, grills diffuses and cut-outs etc., have to be made with the frame of perimeter channels of size 20mm x 27mm x 30mm x 0.55mm thick supported suitable and should be considered as per drawing.				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
<b>N</b>	<b>Road Works</b>				
	<p>NOTES ON ROAD WORKS:  Unless and otherwise specified: 1) Soling Stone: Size of soling stone shall be normally between 100mm to 225mm size or as per approved size based on the site condition. The stacks shall be laid on a levelled ground and the net quantity is arrived at after deducting 15% towards voids / loose packing. The quantity shown under relevant item is the net quantity. In case stone of size from 90mm to 45mm is used the deduction will be limited to 7.5% only.</p>				
	<p>2) Coarse aggregate: The size of coarse aggregate used for base course shall be varying from 63mm to 45mm and for II course the same shall be 53mm to 22.4mm. The stacks shall be laid on a levelled ground and the net quantity is arrived at after deducting 7.5% towards voids / loose packing. The quantity shown under relevant items is the net quantity. Rate quoted shall be for net quantity.</p> <p>3) 13.2mm size aggregate: The quantity required for the WBM will be premeasured as per stack measurement. No voids are normally required to be made to arrive at the net quantity. For obtaining a good WBM course 13.2mm size aggregate shall be blinded with main coarse aggregate along with moorum. The minimum quantity of material required for the WBM per sqm of WBM course is indicated as follows:</p>				
	<p>First course (75mm consolidated thickness):  i) 63mm to 45mm aggregate - 0.94 cum / 13.33sqm WBM area  ii) 13.2mm aggregate - 0.135 cum / 13.33sqm WBM area  Second course (40mm consolidated thickness):  i) 50mm to 22.4mm aggregate-0.94 cum / 25sqm of WBM area  ii) 13.2mm aggregate - 0.195 cum / 25sqm of WBM area.  The WBM item will be measured on square meter basis.</p>				
1	Cutting full grout macadam (FGM) road surfaces including W.B.M and soling and making good the same inclusive of cost of supplying of bitumen and extra quantities of granite stone metal, gravel, etc; and re-rolling, etc; complete all as per specifications.	Sqm	10.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
<b>O</b>	<b>Fencing &amp; Services</b>				
1	Supplying and fixing chain link fencing to RCC/MS posts using GI chain link fencing tied to the post with 6mm MS rod using GI binding wire including providing 10g GI wire horizontally at top and bottom, cost of all materials required for the work, etc; all as directed by the engineer-in-charge.				
1a	using GI chain link fencing of size 100mm x 100mm x 10g x 10g	Sqm	10.00		
	<b>Rate in Words</b>				
1b	using GI chain link fencing of size 50mm x 50mm x 10g x 10g	Sqm	10.00		
	<b>Rate in Words</b>				
<b>P</b>	<b>Maintenance - Dismantling</b>				
1	Demolishing cement concrete 1:3:6 or richer mix including disposal of materials within 50m lead.	Cum	5.00		
	<b>Rate in Words</b>				
2	Demolishing cement concrete 1:4:8 or leaner mix including disposal of material within 50m lead.	Cum	5.00		
	<b>Rate in Words</b>				
3	Demolishing R.C.C work including stacking of steel bars and disposal of unserviceable materials within 50m lead.	Cum	5.00		
	<b>Rate in Words</b>				
4	Demolishing brick work/Solid block masonry in cement mortar including stacking of serviceable material and disposal of unserviceable material with in 50m lead	Cum	15.00		
	<b>Rate in Words</b>				
5	Dismantling stone rubble masonry in cement mortar including stacking of serviceable materials and disposal of unserviceable materials within 50m lead.	cum	5.00		
	<b>Rate in Words</b>				
6	Dismantling tile work in floors and roofs laid in cement including stacking material within 50m lead				
6a	for thickness of tiles 10mm to 25mm.	Sqm	400.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
6b	for thickness of tiles above 25mm and up to 40mm.	Sqm	10.00		
	<b>Rate in Words</b>				
7	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable materials within 50m lead.	Sqm	25.00		
	<b>Rate in Words</b>				
8	Dismantling the old plaster or skirting, raking out joints, and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50m lead.	Sqm	50.00		
	<b>Rate in Words</b>				
9	Pointing on stone work with cement mortar 1:3 (cement : fine sand) including raking out joints, scaffolding, curing, finishing neat, etc; complete all as per specifications for heights up to 10m above GL				
9a	Ruled or sunk pointing.	Sqm	50.00		
	<b>Rate in Words</b>				
<b>Q</b>	<b>Maintenance - Repairs to building</b>				
1	Repairs to plaster of thicknesses from 12mm to 20mm in patches of 2.5sqm and under including cutting the patch in proper shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50m lead.				
1a	with C.M 1:4	Sqm	15.00		
	<b>Rate in Words</b>				
1b	with C.M 1:5	Sqm	15.00		
	<b>Rate in Words</b>				
2	Repolishing the existing terrazzo tile / cast-in-situ flooring / dado including finishing with oxalic acid, cleaning, etc; complete. I / 90	Sqm	350.00		
	<b>Rate in Words</b>				
3	Removing dry or oil bound distemper/plastic emulsion by scrapping, sand papering and preparing the surface smooth, including necessary repairs to scratches etc; complete.	Sqm	400.00		
	<b>Rate in Words</b>				

<b>Sl. No.</b>	<b>Description of the item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
4	Removing white or colour wash by scrapping, sand papering the surface smooth including necessary repairs, etc complete.	Sqm	50.00		
	<b>Rate in Words</b>				
<b>T</b>	<b>Special Items</b>				
1	Providing and fixing at all heights / in all floors with all leads Colour Anodised Aluminium doors / windows / partitions manufactured from best extruded Aluminium sections conforming to ISI, cut to length, joints mitred and corners grinded with joints water proof the outer frame and shutter frame stiffened with corner angle strips or provided for in the frame for fixing the frame to RCC Columns / masonry on sides, RCC lintels on top and PCC cills or floor at bottom, the frame work fixed with standard approved fastenings all generally as per details shown in drawings and specification with all the sections pre-treated for removal of any rust and prevention of further rust formation and coated with greasy materials for non-adherence of mortar or any other sticky materials and this coat to be removed after installations of the sub-dividing frames by tenoned and riveted into frames all aluminium surface be thoroughly cleaned free or rust scale or dirt and mill scale by pickling surfaces finished with colour				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
	anodised dull matt finishing 10 MICRON thick including cost of pull and push plates and fixtures for hinged openings (arrangement with steel bearings wherever necessary), cost of labour for fixing of mortice lever locks, aluminium handles, door fittings like tower bolts etc., supplied free for fixing including screws / bolts (or these materials measured separately elsewhere) where shutters are involved etc., complete, cost of providing and fixing of glass of selected glazing quality of thickness and type of glass specified hereinafter or panel boards including nylon or PVC or rubber lining of approved quality wooden grounds, rubber gasket, aluminium glazing clips, mastic etc., and fixing with aluminium glazing clips and also snap-on type with holes as per drawing and specifications provided for separately in the sub items following the main items of frame work for partition and door shutters as below:				
	NOTE: All fitting works shall be carried out as per I.S specifications including necessary rivets, screws, lugs, scaffolding, etc., complete all generally as per drawings. The sizes of the components should confirm as per details in drawings.				
1a	Providing and fixing of <b>Colour Anodised Aluminium</b> (Matt finish) <b>frame work</b> (horizontal and verticals) for partitions Doors / Windows with required sections of JINDAL / INDAL make or equivalent including all items and contingencies described above complete (Aluminium beadings and glazing clips measured under this item only).	Kg	100.00		
	<b>Rate in Words</b>				
1b	Providing and fixing of <b>frame work</b> (styles and rails) for doors shutters / window shutters with required sections of JINDAL / INDAL make or equivalent including providing all items and hinged / pivoted / sliding arrangements for operation of shutters and labour cost for fixing of door fittings and locks (which shall be free issues for fixing or paid separately) etc., complete. (Aluminium beadings and glazing clips measured under this item only.)	Kg	100.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
2	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
2a	For fixed portion				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	800.00		
	<b>Rate in Words</b>				
2b	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	200.00		
	<b>Rate in Words</b>				
3	Providing and fixing glass panes of selected glazing quality and thickness as specified below including providing and fixing Nylon / Rubber / PVC lining of approved quality and fixing with Aluminium glazing clips / Aluminium beadings (Supply cost of Aluminium clips / Aluminium beadings are measured in items T065A and T065B above for DOORS / WINDOWS / PARTITIONS etc., using 4.5mm to 5.0mm thick plain glass	Sqm	75.00		
	<b>Rate in Words</b>				



Sl. No.	Description of the item	Unit	Qty	Rate	Amount
4	Providing and fixing 12mm thick flat pressed three layered wood based melamine faced prelaminated particle board bonded with Phenol formaldehyde with a decorate laminate of same colour on both sides -NOVOPAN PLT / BHUTAN BOARD/ ARCHIDPLY -Exterior grade or equivalent, including cutting to required size and shape, fixing with aluminium glazing clips or triangular beading (measured and paid under item T065A and T065B above) including screws, putty etc., complete.	Sqm	150.00		
	<b>Rate in Words</b>				
5	Providing and fixing TOUGHENED GLASS panes of selected glazing quality and thickness as specified below including providing and fixing Nylon / Rubber / PVC lining of approved quality and fixing with Aluminium glazing clips / Aluminium beadings (Supply cost of Aluminium clips / Aluminium beadings are measured in items T065A and T065B above for DOORS / WINDOWS / PARTITIONS etc., using 4.5mm to 6.0mm thick glass	Sqm	15.00		
	<b>Rate in Words</b>				
	<b>PH -Works</b>				
<b>X</b>	<b>Internal PH Works</b>				
1	Providing, laying, jointing, fixing, testing, painting, commissioning GI pipes, medium grade conforming to IS:1239 with a minimum weight as follows including GI specials, cutting the pipes to the required lengths, threading, jointing the pipes, chasing the walls and floors, making the holes, clamping to walls using wooden spacers or clamps and restoring the same to the original conditions with CM 1:3, necessary excavation, testing, refilling etc. Complete all specified and directed. (Ref. Fig. No.CED: PH2.1 of PH Engineering Specification)				
1a	For external works - 25mm NB (2.46 kg/m)	rm	50.00		
	<b>Rate in Words</b>				
1b	For external works - 50mm NB (5.17 kg/m)	rm	25.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
2	Providing and fixing Chlorinated Polyvynyl Chloride (CPVC) pipes (SDR 13.5) conforming to IS:15778, having thermal stability for hot and cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge etc., for INTERNAL WORKS EXPOSED ON WALLS with:				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
2a	CPVC pipes, 15mm outer dia	rm	10.00		
	<b>Rate in Words</b>				
2b	CPVC pipes, 20mm outer dia	rm	50.00		
	<b>Rate in Words</b>				
2c	CPVC pipes, 25mm outer dia	rm	50.00		
	<b>Rate in Words</b>				
<b>Y</b>	<b>External Water Supply Works</b>				
1	Providing, laying and jointing unplasticized PVC pipes and specials of working pressure as mentioned below conforming to IS:4985 including cost of necessary jointing materials, labour for excavation of trenches, testing, refilling etc. complete all as per specifications.				
1a	6 kg/sqcm and 50mm OD	rm	20.00		
	<b>Rate in Words</b>				
1b	6 kg/sqcm and 75mm OD	rm	10.00		
	<b>Rate in Words</b>				
1c	6 kg/sqcm and 90mm OD	rm	25.00		
	<b>Rate in Words</b>				
1d	6 kg/sqcm and 110mm OD	rm	30.00		
	<b>Rate in Words</b>				
1e	4 kg/sqcm and 200mm OD	rm	20.00		
	<b>Rate in Words</b>				
2	Construction of Manhole of internal clear dimension 800X800mm in 230mm thick first class brick masonry using first class country bricks in CM 1:3 over a bed of 150mm thick PCC1:2:4, plastering with CM 1:2, 12mm thick on internal,external surfaces and, Internal, top exposed surfaces finished smooth with a floating coat of neat cement, RCC 1:2:4 with necessary steel reinforcement as per drawing to support CI frame and cover, providing and fixing light duty double seal CI frame and cover, of size 610X455mmweighing not less than 52kg conforming to IS:1726 in CC1:2:4 and CI steps with 3-coats of anticorrosive, black bitumastic painting, encasing of sewer connections to manhole in PCC 1:2:4 etc. Complete all as specified and directed for initial depth of 0.75m (Ref. Fig. No. CED:PH8.7 of PH Engineering Specification) NOTE: CC 1:2:4 in the above Item is by using 20mm graded granite aggregate obtained from approved quarry.	nos	2.00		

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
	<b>Rate in Words</b>				
	<b>NON - SOR items</b>				
1	Dismantling the existing Aluminium partitions,glass, boards in doors, windows, panels etc., upto an height of 3 mtr and shifting and stacking the material with in lead of 50mtr including cleaning the section glass,board etc., complete all as per specications and as directed by E-in.C	Sq.m	150.00		
	<b>Rate in Words</b>				
2	Refixing/re erecting the aluminium partition sections as a door, window,panels etc., with available aluminium sections and fixing the available boards and glasses including necessary rubber gaskets, hardware, tools, labour etc., complete	Sq.m	300.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
3	Painting two or more coats on street light poles with synthetic enamel paint approved brand and manufacture on old work				
3a	Pathway lights poles of 50mmdia and length up to 3M.	Nos.	120.00		
	<b>Rate in Words</b>				
3b	Light poles of dia varying between 75 mm to 200 mm and length up to 7M	Nos.	60.00		
	<b>Rate in Words</b>				
4	Providing and fixing sliding C-channel with sliding wheel set for sliding door including cost of necessary fixtures, materials, labour, transport etc complete all as per specification and as directed by E-In-C etc., complete	Nos.	5.00		
	<b>Rate in Words</b>				
5	Disposing the building debris to out side the campus in an unobjectionable way from municipal Authorities by using mechanical transport including cost of labour for loading and unloading etc.,complete and as directed by EIC.	Cum	60.00		
	<b>Rate in Words</b>				
6	Painting internal surfaces with one or more coats of super acrylic emulsion paint of approved brand and colour (Berger or Asian or equivalent) to give an even shade with required finish over a coat of water thinnable cement primer including cleaning the surfaces, filling the crevices with approved filler, scaffolding, etc., complete all as per specifications.	Sqm	3500.00		
	<b>Rate in Words</b>				
7	Cutting chases in brick masonry walls/floors finishing with cement concrete 1:3:6 (1cement: 3 coarse sand : 6 graded granite stone aggregate) including necessary plastering in cement mortar 1:5 (1 cement : 5 coarse sand)	Rmt	10.00		
	<b>Rate in Words</b>				
8	Dismantling Gypsum board false ceiling including disposal of unservicable surplus material and stacking of servicable material within in 50 m lead as directed by Engineer - In - Charge.	Sqm	100.00		
	<b>Rate in Words</b>				

<b>Sl. No.</b>	<b>Description of the item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
9	Removing and Refixing of Grass pavers for to attend the pipe connection works to existing drain.	Sqm	30.00		
	<b>Rate in Words</b>				
10	Removing the existing stone slab flooring and Re laying the same, the joints filled with cement concrete 1:3:6 and the surface should be neatly levelled, proper compactions for stone and earth for settling etc complete all as per directions of Engineer - In - Charge	Sqm	30.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
11	Providing and laying Siporex or approved Autoclaved Aerated Cement blocks masonry with thickness as mentioned below, AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand ). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.				
11a	For <b>200mm thick</b> walls using (600x200x200)mm size blocks	CUM	1.00		
	<b>Rate in Words</b>				
12	Providing and fixing boards/sheets as specified below including cutting to required size and shape, fixing with aluminium glazing clips or triangular beading including screws, putty, etc., complete. Using 9 mm thick flat pressed three layered wood based melamine faced prelaminated particleboard bonded with phenol formaldehyde with a decorate laminate of same colour on both sides – NOVAPAN PLT/BHUTAN BOARD- exterior grade or equivalent	Sqm	15.00		
	<b>Rate in Words</b>				
13	Providing and fixing SS (Grade 316) FLY PROOF MESH of size 1/16"X24 gauge including fixing, complete all as per specification	Sqm	10.00		
	<b>Rate in Words</b>				
14	Labourcharges for fixing 0.5mm thick GI sheet of available sheet with necessary self tapping screws with drilling machine, the sheets to be jointed and finished so as to have a flush look which includes filling and finishing etc complete all as per directions of EIC., etc complete.	sqm	400.00		
	<b>Rate in Words</b>				
15	Painting internal surfaces with two or more coats of Royal Acrylic emulsion paint of approved brand and colour (Berger or Asian or equivalent) to give an even shade with required finish over a coat of water thinnable cement primer including cleaning the surfaces, filling the crevices with approved filler, scaffolding, etc., complete all as per specifications.	Sqm	400.00		
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
16	Providing and fixing 10mm thick multi-walled translucent polycarbonate sheet (Lexan) fixed to purlin box section/above pergola section to a line, gradient with aluminium beadings of 50x4mm thick to the joints with self driven screw, sealant, edges covered with 12mm thick aluminium channels etc., complete all as per specification and as directed by E-IN-C etc., complete.	Sqm	30.00		
	<b>Rate in Words</b>				



Sl. No.	Description of the item	Unit	Qty	Rate	Amount
17	Providing and Fixing of 0.4mm thick pre coated Galvalium sheet for roofing with necessary cutting, providing flashing sheet, providing gutter etc., complete all as per specification	Sqm	25.00		
	<b>Rate in Words</b>				
18	Providing and fixing of <b>Armstrong (lab grade)</b> DLW-solid LG 1 or equivalent range of homogeneous vinyl floors of size 180 cmx16m_25m x 2.00 mm with:Static electrical charge < 2.0, vertical resistance of 1x10/7, Residual indentation of 0.04 mm, colour fastness of stage 7 and sound absorption of 3 db. Armstrong Antistatic/ conductive floor should be installed on a smooth , hard and absolutely leveled sub floor. Copper griddling may be used at the seams and then connected to the earthing as per the customer's requirment. Clean the floor with a liquid detergent diluted with warm water stubborn marks can be removed with a fine abrasive powder and scouring pad. Rinse properly with clean water to remove all traces of detergent. Polishing or surfaces coatings on conductive Antistatic floors must not be used as these will leave a film over the floor surface which will alter the conductivity of the installation., including skirting.	sqm	50.00		
	<b>Rate in Words</b>				
19	Providing and fixing of Gerflor or equivalent range of approved colour and shade of homogeneous vinyl floors of size 200 cmx20m x 2.00 mm with:Static electrical propensity < 2.0, wear resistance $\leq 2.0 \text{ mm}^3$ , Residual indentation of $\sim 0.02\text{mm}$ , colour fastness of stage $\leq 6$ mm,thermal conductivity 0.25W/(m.K) and Anti-bacterial activity < 99% inhibits growth.with instalation of hot welding and copper strip. Gerflor Antistatic/ conductive floor should be installed on a smooth , hard and absolutely leveled sub floor. Copper griddling may be used at the seams and then connected to the earthing as per the customer's requirment. Clean the floor with a liquid detergent diluted with warm water stubborn marks can be removed with a fine abrasive powder and scouring pad. Rinse properly with clean water to remove all traces of detergent. Polishing or surfaces coatings on conductive Antistatic floors must not be used as these will leave a film over the floor surface which will alter the conductivity of the installation., including skirting, etc.	Sqm	50.00		
	Note: Payment will be made as per actual measurement recorded at site for flooring / skirting areas.				
	<b>Rate in Words</b>				

Sl. No.	Description of the item	Unit	Qty	Rate	Amount
20.00	<p>Providing and fixing of Gerflor or equivalent range of approved colour and shade of homogeneous vinyl floors of size 200 cmx20m x 2.00 mm with:Static electrical propensity &lt; 2.0, wear resistance <math>\leq 2.0 \text{ mm}^3</math>, Residual indentation of <math>\sim 0.02\text{mm}</math>, colour fastness of stage <math>\leq 6</math> mm,thermal conductivity 0.25W/(m.K) and Anti-bacterial activity &lt; 99% inhibits growth.. Gerflor Lab grade vinyl floor should be installed on a smooth , hard and absolutely leveled sub floor. Copper griddling may be used at the seams and then connected to the earthing as per the customer's requirment. Clean the floor with a liquid detergent diluted with warm water stubborn marks can be removed with a fine abrasive powder and scouring pad. Rinse properly with clean water to remove all traces of detergent. Polishing or surfaces coatings on conductive Antistatic floors must not be used as these will leave a film over the floor surface which will alter the conductivity of the installation., including skirting.</p> <p>Note: Payment will be made as per actual measurement recorded at site for flooring / skirting areas.</p>	Sqm	150.00		
	<b>Rate in Words</b>				