

Name of Work : Proposed Civil & PH works for construction of Dolna Annexure in Neidile Hostel of NCBS

Schedule Of Quantities

S no	Description of Items	Unit	Qty	Rate	Amount
A	EARTHWORK				
1	Note for Earthwork: No working space shall be considered beyond the width of the foundation concrete (mud-mat) shown in the drawings. The contractor shall consider work- ing 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 meas- urement shall be restricted only to the foundation width shown in the drawings. No extra shall be per- mitted and measured for payment on account of working space / battering / benching for excavation and refilling around foundation.				
	Earthwork in excavation by mechanical means (hy- draulic 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		
	Rate in Words:				
2	Filling available excavated approved earth (excluding rock) in trenches, sides of foundations, plinth, etc; in layers not exceeding 15cm depth breaking clods, consolidating each deposited layer by ram- ming, watering and dressing, etc; complete for lead up to 50m and all lifts etc., complete as per specifications.	Cum	60.00		
	Rate in Words:				
3	Supplying and filling in plinth with RIVER SAND in layers not exceeding 15cm in depth compacting each deposited layer by ramming thoroughly, watering and dressing etc; complete for all leads and lifts.	Cum	3.50		
	Rate in Words:				

S no	Description of Items	Unit	Qty	Rate	Amount
B	MASONRY				
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)	Cum	15.00		
	In cement mortar 1:6				
	Rate in Words:				
2	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, scaffolding, curing, etc; complete as per specifications IN SUPERSTRUCTURE UPTO FLOOR FIVE LEVEL. (The mix ratio specified is for cement : coarse river sand)	Sqm	4.00		
	Rate in Words:				
3	Providing and construction Solid Cement Concrete Block masonry in cement mortar 1:6 (cement : coarse river sand) using factory made, load bearing, approved quality, Grade C (4.0), as per IS 2185 (Part 1), density of blocks not less than 1800kg/cum, minimum average compressive strength of units 4.0N/mm ² and minimum strength of individual unit is 3.2N/mm ² , set to level plumb including setting in position, providing scaffolding, curing, raking out joints wherever necessary etc., complete with all leads and all asper specification and direction of engineer-in charge in SUPERSTRUCTURE UPTO FLOOR FIVE LEVEL.	Cum	7.50		
	For 150mm thick walls using (400x150x200)mm size blocks				
	Rate in Words:				

S no	Description of Items	Unit	Qty	Rate	Amount
C	PLAIN CEMENT CONCRETE				
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.	Cum	5.50		
	PCC 1:4:8				
	Rate in Words:				
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 but excluding cost of formwork, etc; complete all as per specifications. Mix ratio specified is for (cement : coarse river sand : graded stone aggregate). In WALLS (any thickness), retaining walls, return walls including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttress- es,string or lacing courses, parapets up to floor five level, with:				
	PCC 1:1.5:3	Cum	0.20		
	Rate in Words:				
D	REINFORCED CEMENT CONCRETE				
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, vi- brating, compaction, finishing, curing, etc; com- plete 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 : M- sand : graded stone aggregate) ALL WORKS UPTO PLINTH LEVEL, with:	Cum	3.00		
	RCC 1:1.5:3				
	Rate in Words:				

S no	Description of Items	Unit	Qty	Rate	Amount
2	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 : M-sand) on exposed surfaces and fixing in position with same C.M 1:3, curing etc., complete all as per specifications but excluding cost of steel reinforcement up to FLOOR FIVE level.	Cum	0.70		
	Kerbs, edging and the like				
	Rate in Words:				
E	FORMWORK				
1	Providing rigid and watertight 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.	Sqm			
	Lintels, beams, plinth beams, girders, bressumers and cantilevers, brackets etc.	Sqm	20.00		
	Rate in Words:				
F	STRUCTURAL & REINFORCEMENT STEEL				
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).				
	Thermo-Mechanically Treated (TMT) bars - Fe500	MT	0.33		
	Rate in Words:				

S no	Description of Items	Unit	Qty	Rate	Amount
2	<p>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 here in after including. a)cutting of component store quired lengths/ widthsand shapes/profiles, b)smooth machining of edges/faces, c)welding(electric arc welding)at joints of built-up sections/ single sections forre- quired 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 surfac es duly prepared to receive painting etc.,complete all as directed by the engineer-in-charge.</p>				
	<p>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 fab- rication 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 in- spection 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.</p>				
2a	Structural steel works as in item F2 above but with MS Channels, MS angles and other sections	MT	2.20		
	Rate in Words:				

S no	Description of Items	Unit	Qty	Rate	Amount
2b	Supplying, fabricating and erecting in position steel works in riveted or bolted, in built-up sections, trusses and other framed works 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 complete all as per specifications at all heights in RS joists / plates / channels / flats / angles / tees / other sections etc.	MT	1.16		
	Rate in Words:				
H	FLOORING				
	USING RIVER SAND				
	NOTES FOR MARBLE / GRANITE FLOORING ITEMS:				
	1) The brand name / local name specified for coloured marble / slabs / granite stone slabs are meant for the approved quality available in the region.				
	2) White cement wherever specified for items shall be of Birla White or equivalent.				
	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.				
	4) Wherever the brand names of materials or equivalent are stipulated, the materials of any of the brand names indicated in item specification only shall be incorporated in the work. The equivalent material shall be permitted only on production of documentary evidence that the materials of brand names stipulated are not under production.				

S no	Description of Items	Unit	Qty	Rate	Amount
1	Providing and laying Ceramic tile flooring / dadoing of approved quality, size, colour and thickness according to the dimensions of tiles and having scratch hardness and other parameter conforming to IS 15622, (Bell or Naveen or Spartek or Jhonson or Kajaria or Somany 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.				
1a	in flooring with approved colour floor tiles (Regular / plain or dark colour / glossy or mat series) size 300mm X 450 mm as per IS 15622, over bed / backing of 20mm thick in CM 1:4.	sqm	38.00		
	Rate in Words:				
1b	in dado with approved colour wall tiles (Regular / plain or dark colour / glossy or mat series) size 300mm X 450mm as per IS 15622, over a bed / backing of 12mm thick in CM 1:3.	sqm	50.00		
	Rate in Words:				
2	Providing and laying 20 to 30mm 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 therate of 4.4kg /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.				
	in flooring	Sqm	4.50		
	Rate in Words:				

S no	Description of Items	Unit	Qty	Rate	Amount
3	<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 M30 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	60.00		
Rate in Words:					
J	ROOFING WORK				
1	<p>Providing, fabricating and fixing of polycarbonate sheet roofings/weather sheds of any shape over MS tubular frame work as per detailed drawing and specifications as detailed below a)The weather shed shall be fabricated out of multilayer wall of thickness mentioned below of “M/s.Sabic GE plastic/Markralon” or “Lexan” make manufactured by M/s.GE Plastic India Ltd. or equivalent make and of approved shade and colours. Sheet fixing shall be done with aluminium profile as per detailed section drawings. The clamping profiles shall be consisting of base section and a compatible top section. All aluminium sections shall be powder coated as per detailed schedule of finishes. All the edges of polycarbonate sheets shall be closed with suitable side tape and suitable aluminium sections.</p>				

S no	Description of Items	Unit	Qty	Rate	Amount
	<p>The clamping shall have provision for EPDM rubber gasketing for water sealing however silicon sealant shall be used for sealing intersectional joints if any and other vulnerable joints wherever required etc. for all heights and at all levels complete all as directed by Engineer-in-Charge. Rate to include supply and fixing necessary self tapping screws, weather cap, filling joints with silicon sealant, aluminium section for joining sheets, EPDM gasket scaffolding etc.</p> <p>Note : (i)payment shall be made on net polycarbonate sheet area (finished area). The overlapping area of sheets etc. will not be paid. (ii)The cost of MS frame will be paid separately elsewhere in the item. (iii)Work has to be carried out upto height of 12.00 mtr. above Ground level. Cost includes charges for scaffolding required. IV)In all shades, colours and all shapes including curved/architectural design.</p>				
	(B) With 10mm thick curved shape Multi-wall poly carbonate sheet	Sqm	5.00		
	Rate in Words:				
2	<p>Providing and fixing 5mm thick compact polycarbonate sheet of LEXAN or equivalent with a UV protections caution on both sides, plain, including providing of sheets, cutting to required size, fixing to frame work using A1 aluminium profile (top & bottom) pop rivet, self tapping screws, EDPM rubber gasket, providing silicon sealant to all joints complete at all height. (The MS frame work will be measured else where as an item)</p>	Sqm	23.00		
	Rate in Words:				
K	FINISHING				
	NOTES FOR FINISHING WORKS:				
	Unless and otherwise specified:				
	1) Plaster mix specified is for cement : fine river sand				
	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				
	3) Rates for all finishing items and lift charges from FFL / GL for all heights, depths and levels.				

S no	Description of Items	Unit	Qty	Rate	Amount
	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 Surface				
1	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:M-sand.	Sqm	25.00		
	with CM 1:6				
Rate in Words:					
2	WASHED STONE GRIT PLASTER on exterior walls of height up to 10m above ground level in two layers, under layer 12mm cement plaster 1:4 (cement : M sand) furrowing the under layer with scratching too, applying cement slurry on the under layer at 2kg of cement per sqm., top layer 15mm cement plaster 1:0.5:2 (cement: M sand : stone chipping 10mm nominal size) in panels with groove all around as per approved pattern including scrubbing and washing, the top layer with brushes & water to expose the stone chippings, complete as per specification & direction of engineer-in-charge (Payment for providing grooves will be made separately)	Sqm	10.00		
Rate in Words:					
3	Plastering 15mm thick with cement mortar specified below finished smooth with lime neeru, including scaffolding, curing, etc; complete for INTERNAL SURFACES of stone masonry/brick masonry walls, sills, jambs, 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:				
	with CM 1:6.	Sqm	30.00		
Rate in Words:					

S no	Description of Items	Unit	Qty	Rate	Amount
4	Painting internal plastered surfaces with two or more coats of Premium super acrylic emulsion paint of approved brand and colour (Asian or Berger 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, applying a coat of approved putty on whole surface and rubbing the surface to acheive desired smooth surface, scaffolding, etc., complete all as per specifications.	Sqm	160.00		
Rate in Words:					
L	MISCELLANEOUS				
1	Supplying and fixing aluminium anodised mortice lock 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	8.00		
Rate in Words:					
O	FENCING AND SERVICES				
1	Supplying and fixing chain link fencing to RCC posts/steel post 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.Note: Post will be measured separately.				
	using GI chain link fencing of size 50mm x 50mm,x 10g x 10g	Sqm	86.00		
Rate in Words:					
2	Providing and fixing turfex fencing made as per manufacture specification including necessary arrangements for fixing with boltnuts welded along with frame work, labour charges etc., as per the instructions of EIC.	Sqm	114.00		
Rate in Words:					
P	MAITENANCE -DISMANTLING				
1	Demolishing brick work / SCB in cement mortar in- cluding stacking of serviceable material and disposal of unserviceable material to outside the campus.	Cum	3.00		
Rate in Words:					

S no	Description of Items	Unit	Qty	Rate	Amount
2	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 specifications and as directed by E-in.C	Sqm	5.50		
Rate in Words:					
3	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	Sqm	5.50		
Rate in Words:					
T	SPECIAL ITEMS				
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 subdividing 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 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.,				

S no	Description of Items	Unit	Qty	Rate	Amount
	<p>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.</p>				
1a	<p>Providing and fixing of frame work (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.)</p>	Kg	240.00		
Rate in Words:					
1b	<p>Providing and fixing of frame work (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.)</p>	Kg	105.00		
Rate in Words:					

S no	Description of Items	Unit	Qty	Rate	Amount
2	Supplying & fixing of factory made composite door shutter with frame and single shutter manufactured by M/s. Fimen Fibre Products Pvt. Ltd./ M/s. Karthik doors and windows, or equivalent with door frame of size 80 x 50mm. The door shutter shall be of rigid GRP sandwich composite structure of 30mm thick (minimum)	Sqm	13.00		
	laminated on all sides with GRP skin fabricated using U.V. stabilized Isophthalic gel coat and one layer of 450 GSM E glass chopped strand mat (CSM) impregnated with polyester resin. The thickness of skins shall not be less than 1.5mm. Expanded polystyrene structural foam panel of density 20kg/cum shall be used as core material for the whole areas of door except the wooden frame structure. The wooden reinforcements made of seasoned salwood block of minimum cross section of 70 x 26 for lock side 40 x 26 all round forming the framework for shutter and minimum of 75mm wide intermediate strip for the width of the door for fixing locks and fixture and shall conform to IS-4020- 1998. The finish of the shutter be without grains and of approved colour. Quoted rate to include providing 3Nos stainless steel hinges of size 100mm along with necessary SS screws and labour for fixing hardwares like aldrops, handle & baby latches etc., complete all as per manufacturers specifications as directed by engineer-in-charge.				
	Rate in Words:				
3	Providing and fixing in position factory made EPS cement sandwich wall/roof/floor light weight solid core panels made of core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum) adhesive, cement, sand, flyash and other bonding material in mortar state processed to form in a preset mould. The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each. Panel shall be laid on 6mm thick cement mortar (1 cement: 2 fine sand) mixed with chemical adhesive of 0.5kg per 50kg of cement or shall be preferably fixed into 'C' channel made of 1.2mm thick MS plate screwed/fastened to the slab/column/ beam etc.				

S no	Description of Items	Unit	Qty	Rate	Amount
	The panel shall fixed vertically with tongue and groove joint and horizontally locked with steel bar between each other and floors and filled with cement mortar and adhesive. Panels should be used as floor & roofing with additional structural support, steel or RCC depending upon the design. All the operation shall be completed in all respect as per drawings, Manufacturers specifications and under the overall direction of Engineer-in-Charge				
3.1	Non load bearing panels 100mm thick of required size	Sqm	13.00		
Rate in Words:					
4	Providing and fixing ACP sheet panels of 5mm thick with interior grade including necessary charges for material, labour etc.,complete and as directed by E In c.	Sqm	68.00		
Rate in Words:					
5	Providing and fixing 9mm 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 - Interior grade or equivalent, including cutting to required size and shape, fixing with aluminium glazing clips or triangular beading (measured and paid under item 1 above) including screws, putty etc., complete.	Sqm	4.00		
Rate in Words:					

S no	Description of Items	Unit	Qty	Rate	Amount
6	Providing and Fixing in position Dorma TS-68 door closer or Equivalent make. Complete all as per directions of Engineer-in-Charge.	Each	8.00		
Rate in Words:					
7	Providing and fixing 5mm thick Aluminium flat (Bottom track width) and length should be full length of the partition and making cutting (around 6/7mm) to move sliding door wheel in the flat and fixing to the floor, with necessary screws and etc., all as per specification and as directed by EIC etc complete.	Rmt	8.00		
Rate in Words:					
8	Providing and fixing tack board of over all thickness 15mm comprising of 6mm thick Plywood and 9mm cell tex board covered with suitable fabric as per colour approved by NCBS etc., complete and as directed by Engineer incharge.	Sqm	75.00		
Rate in Words:					
X	INTERNAL PH WORKS				
1	Providing and fixing UPVC floor trap with 75/100mm dia outlet Supreme/Oriplast/ or other equivalent approved make, including connection with PVC soil / waste pipe, necessary 150mm thick CC 1:2:4 for embedding the trap including providing and fixing top rail and strainer on top of the trap etc., complete all as specified and directed.				
	Floor trap with 100mm outlet	Each	11.00		
Rate in Words:					
2	Providing and fixing Chlorinated Polyvinyl 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 cost of cutting chases and making good the same with CM 1:3, including testing of joints complete as per direction of engineer-in-charge etc., for CONCEALED WORKS with:				
	CPVC pipes, 20mm outer dia	Rmt	65.00		
Rate in Words:					
	CPVC pipes, 32mm outer dia		18.00		
Rate in Words:					

S no	Description of Items	Unit	Qty	Rate	Amount
3	Supply, Laying and Fixing in position under floor, against wall in chases PVC SWR Drainage pipes and specials, rubber rings conforming to Type 'B' of IS:13592 'Supreme' or equivalent approved make as per manufacturers specification including cutting the pipes to required lengths, necessary excavation, chasing and restoring to original conditions, testing etc. complete. (Specials at junction of lateral pipe and vertical stack must have access door for inspection)				
	75/50/65mm dia (min wall thickness 3.2mm)	Rmt	10.00		
	Rate in Words:				
	110mm dia (min wall thickness 3.2mm)	Rmt	26.00		
	Rate in Words:				
4	Providing and Fixing European EWC-Crystal Wall Mounted closet,Catalouge No.-20040,Color-Star White,Brand-Hindware Italian Collection or Equivalent make as approved by NCBS comprising of: A) Best Indian make white glazed vitreous Chinaware European water closet, with wash down pattern of approved make with trap as mentioned below conforming IS:2556-Part-II bearing ISI mark fixed to floor with necessary teak wood plugs, CP brass screws No. 8x37 etc. B) 15mm heavy quality flexible PVC inlet connection with CP brass hexagonal check nuts and washers, angle cocks at both ends. C) White/COLOR plastic seat and cover of approved make with C.P coated pillar hinges conforming to IS:2548 (Refer DRG. No NCBS/DOLNA/ANNEX/03).	Each	2.00		
	Rate in Words:				
5	Providing and fixing glazed vitrious china Floor mounted EWC[Poncho model (For in fants)] including all accessories like seat and lid, C.P.brass hinges and rubber buffers, Cocelaed cistren with neccerary flush pipe of an approved design, including cutting and making good the walls and floors where required.etc.completed. all as per directions of Engineer - In - Charge.	Each	3.00		
	Rate in Words:				

S no	Description of Items	Unit	Qty	Rate	Amount
6	Providing and Fixing Indian make wash hand basin (with CP bottle trap) comprising of: A) Best Indian make white glazed vitreous chinaware wash hand basin of approved make of size mentioned below conforming to IS:2556 Part-IV with single tap hole and bearing ISI mark supported on a pair of painted CI brackets conforming to IS:775				
	B) one 15mm CP brass pillar cock of approved make with hot or cold water indication as required conforming to IS:1795 with minimum weight of 577gm. C) One 15mm heavy quality flexible PVC inlet pipe connection with CP brass hexagonal check nuts with washer at both ends. D) 2 Nos 15mm CP brass angle cock/stop cock of approved make conforming to IS:781 of approved make with a minimum weight of 400gm on the inlet to the basin. E) One 32mm heavy quality CP brass waste coupling with rubber plug and CP chain.				
	F) One 32mm heavy quality CP brass bottle trap with extension piece and wall flange.				
	G) One 32mm medium quality GI waste pipe with specials from extension piece of the bottle trap to the floor trap, length not exceeding 1 m concealed in wall.				
	H) One no. 40mm GI bend and 40mm dia 250mm long GI pipe connection waste pipe to floor trap. All as per specifications and as directed with approved fittings.				
	(Refer DRG. No NCBS/DOLNA/ANNEX/03)). PH Engineering Specification)				
	Size 550 X 400mm	Each	2.00		
	Rate in Words:				
	Poncho model for Children	Each	2.00		
	Rate in Words:				
7	Supply and installation of two way bib tap with health faucet flex tube of Jaquar make or equivalent all as per specifications, site condition and directions of Engineer - In - Charge etc complete.	Each	7.00		
	Rate in Words:				

S no	Description of Items	Unit	Qty	Rate	Amount
8	Providing and Fixing in position Hand shower (Health faucet) ABS body with 8mm dia, 1meter long flexible tube & wall hook model Or Equivalent make as approved by NCBS, make Jaguar or equivalent..Complete all as per direcrtions of Engineer-in-Charge.	Each	7.00		
Rate in Words:					
9	Providing and Fixing in position best quality approved make Mirror of required size of 5mm thick, mounted on 6mm thick plain E-board backing with 4no.s of CP brass cap screws and washers fixed to walls with necessary plugs etc. all specified and directed. (Refer DRG. No NCBS/DOLNA/ANNEX/03)). PH Engineering Specification)	Sqm	2.50		
Rate in Words:					
10	Supply and installation of MERINO or Equivalent rest room scubicles MODLE TYPE TITAN SS SERIES. Thickness of compact laminate 12mm colour of HPL board. Single colour of size shown in drawing with door size: 1750mm(H)* 610mm (W) . overal height of cubical 1980mm (Including bottom gap of 150mm) including cost of necessary accessories like standard- Merino make or equivalent make stainless steel -304 grade accessories) SS U Channel SS F channel, SS top rail, SS Coat hook, SS Privacy thumb turn c/w occupancy indicator, SS door knob, SS hinges with cover , SS adjustable foot-316 grade, Rubber lining for groove , SS screw 304 G & PVC wall plug	Each	3.00		
Rate in Words:					
11	Providing and Fixing in position best approved quality 15mm CP brass shower of approved make conforming to IS:781.				
	Swivel type with shower arm and Wall flange	Each	1.00		
Rate in Words:					
12	Providing and fixing pull & dry stain less steel rust proof ceiling mounted cloth hanger of size 2.0mtrx0.4 mtr of approved make and as directed by EIC	Each	2.00		
Rate in Words:					
13	Providing and fixing diverter kit for hot and cold water mix including necessary specials etc as directed by EIC	Each	1.00		
Rate in Words:					

S no	Description of Items	Unit	Qty	Rate	Amount
14	Providing and Fixing in position best approved quality 25mm dia towel rod of approved make conforming to IS:781.	Each	2.00		
Rate in Words:					
15	Providing and Fixing in position best quality approved make liquid soap holder as mentioned below with CP brass brack- ets, CP cap screws, washers etc, fixed to wall with necessary plugs etc. all as specified and directed. (Refer DRG. No NCBS/DOLNA/ANNEX/03 of PH Engineering Specification)	Each	3.00		
Rate in Words:					
16	Providing and Fixing in position best approved quality Recess type toilet roll holder of approved make conforming to IS:781.	Each	7.00		
Rate in Words:					
Total Amount Rs.					
Note: The contractor shall quote his rates in this schedule of quantity. Submission of tender in any format is liable for rejection.					

Total Amount in words:

Signature of contractor: