

**CORRIGENDUM- 1 Dated 03/04/2024**

<b>Description</b>	Pre-Bid Queries & Clarifications			
<b>BYPL NIT NO:</b>	CMC/BY/23-24/RS/SvS/VK/41 Dated: 15.03.2024			
<b>Work:</b>	Civil work for construction of a Pre Engineered Building (PEB) warehouse for storage of Materials in BYPL			
<b>Sl. No</b>	<b>NIT Clause Reference</b>	<b>Description</b>	<b>Bidder's Query</b>	<b>BYPL's Reply / Clarifications</b>
1	SECTION- VI, PRICE BID	PRICE BID	UoM of Many items are not correct.	Price bid format has been revised which is attached herewith.

**SECTION – VI (PRICE BID)**

**PART (A):- Civil Works for construction of Pre Engineered Building (PEB) warehouse**

S.No.	Description of item	Qty	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil. as directed, within a lead of 50 m. All kinds of soil.	994.86	Cum		
2	Extra for every additional lift of 1.5 m or part there of in: All kinds of soil	334.58	Cum		
3	Filling available excavated earth (excluding rock) in trenches plinth, sides of foundations etc. in layers not exceeding 20 cm in depth : consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m	596.91	CUM		
4	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- All work upto plinth level 1:4:8 (1 Cement : 4 Coarse Sand : 8 Graded stone agg. 40 mm nominal size)	80.72	CUM		
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 manufactured sand derived from RecycledConcrete Aggregate (RCA) : 10 graded stone aggregate 40 mm nominal size Recycled Aggregate (RA)	140	Cum		
6	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarseaggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for thefollowing grades of concrete.All works upto plinth level Concrete of M25 grade with minimum cementcontent of 330 kg /cum	611.39	Cum		
7	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarseaggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriagefor all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.All works above plinth level upto floor V level Concrete of M25 grade with minimum cement content of 330 kg /cum	144.25	Cum		
8	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete. cold twisted bars.	68523.25	KG		
9	Centring and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases of columns.	149.04	SQM		
10	Centring and shuttering including strutting, propping etc. and removal of form for Lintels, beams, plinth beams, girders, bressumers and cantilevers.	1208.6	SQM		
11	Centring and shuttering including strutting, propping etc. and removal of form work for Columns, piers, abutments, pillars, posts and struts	344.25	SQM		
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in cement mortar 1 : 4 (1 cement : 4 coarse sand )	97.68	CUM		
13	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up tofloor V level in cement mortar 1:4 (1 cement : 4 coarse sand ). The rateincludes providing and placing in position 2 Nos 6 mm dia M.S. bars atevery third course of masonry work.	120.4	CUM		
14	Brick work with common burnt clay F.P.S. (non modular) bricks of classdesignation 7.5 in superstructure above plinth level up to floor V level inall shapes and sizes in :Cement mortar 1:4 (1 cement : 4 coarse sand)	177.1	Cum		
15	12 mm cement plaster of mix 1:4 ( 1 cement : 4 fine sand)	2254	Sqm		
16	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 ( 1 cement : 4 fine sand)	2254	Sqm		

S.No.	Description of item	Qty	Unit	Rate	Amount
17	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	7450	SQM		
18	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including water thinnable priming coat with cement primer	6980	Sqm		
19	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqmover and including priming coat of exterior primer applied@ 2.20 kg/10 sqm)	880	Sqm		
20	Providing and placing in position M.S plates to hold the rail for transformer foundation including drilling holes of required size and tightening with nuts and bolts etc	2769.48	kg		
21	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	220	sqm		
22	Extra for vacuum treatment dewatering with screed board vibrator as per specifications & directions of EIC.	2704.8	Sq.m		
23	Supply and spreading Floor Hardner spreading Hardener on top of floor	1700	Kg		
24	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, indicating the BIS License No. with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	2000	Per Litre		
25	Half brick masonry with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand)	150	SQM		
26	Extra for providing and placing in position 2 No. 6 mm dia M.S bars at every third course of half brick masonry	150	SQM		
27	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 (1cement : 4 coarse sand) : 25 mm thick	910	Sqm		
28	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made. Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Three track three panels sliding window with fly proof S.S.wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm). (AR 9.147 D.4)	223.56	Sqm		
29	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 8 mm thickness (weight not less than 20 kg/sqm	223.56	SQM		
30	Boring with 150 mm diameter casing pipe for hand pump/tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump/tube well is lowered and tested: Upto 6 metres depth.	6	Mtr		

S.No.	Description of item	Qty	Unit	Rate	Amount
31	Boring with 150 mm diameter casing pipe for hand pump/tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump/tube well is lowered and tested: Upto 6 to 12 metres depth.	6	Mtr		
32	Boring with 100 mm diameter casing pipe for hand pump/tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump/tube well is lowered and tested: Upto 12-18 metres depth. (18.42.3-AR397)	6	Mtr		
33	Boring with 150 mm diameter casing pipe for hand pump/tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump/tube well is lowered and tested: Upto 18-24 metres depth.	6	Mtr		
34	Boring with 150 mm diameter casing pipe for hand pump/tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump/tube well is lowered and tested: Upto 24-30metres depth.	6	Mtr		
35	Boring with 150 mm diameter casing pipe for hand pump/tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump/tube well is lowered and tested: Beyond 30 m and upto 36 m depth	6	Mtr		
36	Boring with 150 mm diameter casing pipe for hand pump/tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump/tube well is lowered and tested: Beyond 36 m and upto 42 m depth	6	Mtr		
37	Boring with 150 mm diameter casing pipe for hand pump/tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump/tube well is lowered and tested: Beyond 42 m and upto 48 m depth	6	Mtr		
38	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.1 110 mm nominal size dia	36	Mtr		
39	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs,conforming to IS: 12818, including hire & labour charges, fittings &accessories etc. all complete, for all depths, as per direction ofEngineer-in-charge 110 mm nominal size dia	18	Mtr		
40	Providing and fixing PVC cap / bail plug of approved quality and make as per direction of Engineer- in- charge. 110mm dia.	2	Each		
41	P/f M.S. clamp suitable for 32 mm dia pipe i/c the cost of nuts, bolts and washer etc.complete.	2	Each		
42	Providing & lowering 32mm nominal bore PVC hose pipe of thickness not less than 1mm for outlet of submersible pump having 32 mm nomonal bore G.I.nipples 230mm long rivetted at both ends.	48	Mtr		
43	Supplying and fixing 6mm thick PVC insulated wire rope with necessary clamp etc.complete as per direction of Engineer- in- charge.	48	Mtr		
44	Providing and fixing of copper conductor cable (Finolex make) forsubmerssible pump suitable for 2 HP pump.	48	Mtr		
45	Providing/fixing wall mounted control panel of required sizehavingthe following accessories & locking arrangement. a)MCB(Isolator 40Amp.Havell's or equivalent make). 1no. b)AMmeter of range 0-30 Amp.(AEE /L &T make)-1no. c)Voltmeter of range 0-300 volt (AEE/L &T make)- 1no. d)Pushbutton with ON/OFF -1pair e)Phase light indicator - 1no. f)Copper wire and lugs to make all required connection.	1	Each		
46	Providing/fixing Submersible pump of 2 HP Corumpton Make with lowering etc complete as per direction of EIC	1	Each		
47	Painting with synthetic enamel paint of approved brand andmanufacture to give an even shade : Two or more coats on new work	2800	SQM		
48	Finishing with Epoxy primer (two or more coats) at all locations preparedand applied as per manufacturer's specifications including appropriatepriming coat, preparation of surface, etc. complete.	2800	SQM		

S.No.	Description of item	Qty	Unit	Rate	Amount
49	Single Leaf Doors without frame with vision panel : P/F of solid semi core door with cut outs for vision panels. Item is complete without door frame, 30mm thk, shutters, finished with 1mm thk approved laminate on both side with all hardware (Approved make) in the form of floor spring , Handles (25mm dia 450mm long ), locks etc complete (size of door upto 1100mm x 2200mm)	5	Each		
50	Providing and laying Gypsum panel partitions 100 mm thick with water proof Gypsum panels of size 666x500x100 mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturer's specifications in superstructure above plinth level up to floor V level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm2	1354	SQM		
51	Providing and laying polished vitrified floor tiles 10 mm thick with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm.Make : Kajaria-double charge.	308	SQM		
52	Providing and fixing 18 mm thick gang saw cut mirror polished premoulded and prepolished, machine cut for kitchen platforms, vanity counters, windows, sills, facias and similar locations of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 Cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing ,curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade. Area of slab over 0.5 Sqm	6	SQM		
53	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with : Udaipur green marble	20.52	SQM		
54	Extra for pre finished nosing to treads of steps of marble stone.	43.2	Rmt		
55	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.	20.52	Sq.m		
56	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern.	4	Each		
57	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern and C.P flush bend with fittings & C.I. brackets, 40 mm flush bend, over-flow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required. W.C. pan with ISI marked white solid plastic seat and lid.	5	Each		
58	Providing and fixing water closet squatting pan ( Indian type W.C. pan ) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fitting and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan.of size 580x440 mm with integral type foot rests.	2	Each		
59	Providing and fixing wash basin with C.I./ brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : white vitreous china Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap. White Vitreous China Wash basin size 630x450 mmwith a pair of 15 mm C.P. brass pillar taps	4	Each		

S.No.	Description of item	Qty	Unit	Rate	Amount
60	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls : 20 mm nominal outer dia Pipes.	60	Rmt		
61	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls : 25 mm nominal outer dia Pipes.	50	Rmt		
62	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls : 32 mm nominal outer dia Pipes.	30	Rmt		
63	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	15	Each		
64	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore	20	Each		
65	Providing and fixing gun metal gate valve with C.I. wheel of approved quality(screwed end): 32 mm NB,	3	Each		
66	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 Kg. as per standard design : 100x100mm size P type with common burnt clay F.P.S (non modular) bricks of class designation 75	3	Each		
67	Constructing brick masonry manhole in cement mortar 1:4 (1 cement:4 coarse sand) RCC top slab with 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix ( 1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4(1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80cm and 45cm deep including CI cover with frame(light duty) 455x610mm internal dimensions, total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) With common burnt clay F.P.S (non modular) bricks with class designation 7.5	12	Each		
68	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 100 to 250 mm diameter.	1	Each		
69	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) allround S.W. pipes including bed concrete as per standard design: 250 mm dia S.W.	100	Rmt		
70	Providing and laying 200 mm dia HDPE pipe for sewer line including joint etc. complete as per direction of Engineer-in-charge.	110	Rmt		

S.No.	Description of item	Qty	Unit	Rate	Amount
71	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. (using Recycled concrete aggregate)	840	Cum		
72	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink with drain board 510x1040 mm bowl depth 250 mm	1	Each		
73	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia	15	Each		
74	P/F of CP jalli of appd design and shape: 100 mm dia.	15	Each		
75	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length, 15 mm NB, (18.21.2.1-AR390)	15	Each		
76	Providing and fixing UPVC floor traps, self closing type having 50mm lead water seal with or without vent arm etc. complete including cost of cutting and making good the walls and floors wherever required. ( 150 x 150 mm )	10	Each		
77	Providing and fixing UPVC (SWR) pipes Class B conforming to IS 13592 for soil, waste and vent pipes including all fittings rubber ring type (plain or access door) e.g. bends, junctions, cowls, offsets, access pieces etc., jointing with rubber ring joints(a) 150 mm dia	70	Rmt		
78	Providing and Fixing bevelled edge mirror of superior quality glass (Modi /Sant Gobain) complete with 6 mm thick hard board fixed to wooden cleats with cp brass screws and washers etc complete.	2.4	Sq.m		
79	P/F of Greenlam sturdo vibrance splendid toilet cubicle (door size 600mm width) with anti bacterial resistant 12mm thick solid compact laminate panel as per direction of eic	2	Each		
80	Providing and fixing health faucet hardware or equivalent make as per direction of EIC.	7	Each		
<b>PART(A) Total Cost e/x GST</b>					
<b>PART (B)</b>					
<b>B1 :- Construction of Boundary Wall and Area Development</b>					
S.No.	Description of item	Qty.	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	975.6	CUM		
2	Filling available excavated earth (excluding rock) in trenches plinth, sides of foundations etc. in layers not exceeding 20 cm in depth : consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m (2.25-AR15)	390.24	CUM		
3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- All work upto plinth level 1:4:8 (1 Cement : 4 Coarse Sand : 8 Graded stone agg. 40 mm nominal size) (4.1.8-AR22)	86.73	CUM		

S.No.	Description of item	Qty	Unit	Rate	Amount
4	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources and using recycled concrete aggregate (RCA) as coarse aggregate and fine aggregate within permissible utilization of 20% each, Portland Pozzolana /Ordinary Portland/Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mixer bear the cost of extra cement. All works upto plinth level Concrete of M25 grade with minimum cement content of 330 kg /cum	118.04	CUM		
5	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources and using recycled concrete aggregate (RCA) as coarse aggregate and fine aggregate within permissible utilization of 20% each, Portland Pozzolana /Ordinary Portland/Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mixer bear the cost of extra cement. All works above plinth level upto V floor Concrete of M25 grade with minimum cement content of 330 kg /cum	58.04	CUM		
7	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete. cold twisted bars	38231.41	KG		
8	Centring and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases of columns.(5.9.1-AR42)	568.8	SQM		
9	Centring and shuttering including strutting, propping etc. and removal of form for Lintels, beams, plinth beams, girders, bressumers and cantilevers.	1166.4	SQM		
10	Centring and shuttering including strutting, propping etc. and removal of form work for Columns, piers, abutments, pillars, posts and struts .	633.18	SQM		
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in cement mortar 1 : 4 (1 cement : 4 coarse sand )	125.16	CUM		
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	198.72	CUM		
13	Washed stone grit plaster on exterior walls height upto 10 Meter. above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15mm cement plaster 1:1/2:2 (1 cement : 1/2 coarse sand : 2 stone chipping 10mm nominal size) in panels with groove all around as per approved pattern including scrubbing and washing. the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer-In-Charge (Payment for providing grooves shall be made separately)	2088	Sqm		
14	Extra for using white cement in place of ordinary cement in the top layer of the item of washed stone grit plaster	2088	Sqm		
15	Extra for providing & mixing the dark shade pigment in top layer of washed stone grit plaster. AR 55	2088	SQM		
16	Extra for using marble chips of size 7 to 10 mm nominal size in place of stone chipping 10 mm nominal size in Washed stone grit plaster on exterior walls (AR158)	2088	Sqm		

S.No.	Description of item	Qty	Unit	Rate	Amount
17	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens,nailed to the under layer including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specification and direction of the Engineer-In-Charge. 15 mm wide and 15 mm deep groove	5456.8	Mtr		
18	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mmwith tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S.angle, C.C. blocks shall be paid separately).	360	m		
20	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1565	KG		
21	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	750	Cum		
22	Supplying and stacking at site.Good earth	7695	Cum		
23	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed : All kinds of soil.	754	Sqm		
24	Clearing jungle including uprooting of rank vegetation, grass, brush wood,trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	8550	Sqm		
25	Construction of granular sub-base by providing recycled close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	1434.8	Cum		
26	Providing and laying CC Pavement of mix M-20 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush levelling to required slope/camber, finishing, curing, making provision for contraction/expansion, construction & longitudinal joints (10mm wide x 50mm deep) by groove cutting machine, providing & filling joints with approved joints fillers & sealants etc. (Item of joint filler, sealant, dowelbar with sleeve tie bar will be paid separately) complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @310kg/cum. Excess/less cement used as per design mix is payable/recoverable separately). Note: Cost of vacuum dewatering with screed board vibrator shall be paid extra.	258.4	Cum		
27	Extra for vacuum treatment dewatering with screed board vibrator as per specifications & directions of EIC.	2584	Sq.m		
28	Providing and laying in position bitumen hot sealing compound for expansion joints etc. Using grade #A# sealing compound. per Meter Length/per CM W/per CM Depth	23840	Mtr		
28	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:5:10 (1 cement : 5 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 10 graded stone aggregate 40mm nominal size Recycled Aggregate (RA) )	324	Mtr		
29	12 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix 1:3 ( 1 cement : 3 Fine Sand)	397.12	Sqm		

S.No.	Description of item	Qty	Unit	Rate	Amount
30	Supply, precast perforated RCC trench cover of KK make and equalantof various size varying 1500 mm in length, 450 mm in width & 50 mm in thickness, with 3 mm thick 50mm wide, ms strip all around welded to the steel reinforcement bar of 6mm dia, 100 mm centre to centre & two no. hooks of 12 mm dia bar for lifting gaving finishing top surface & grade of cement concrete M-20. (AR478)	131.4	Sqm		
31	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 12.5 mm nominal size stone aggregate	87.6	Sqm		
32	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	2219.2	Kg		
33	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12mm cement mortar, including filling the joints with same mortar, withcommon burnt clay non modular bricks:1:4 (1 cement : 4 coarse sand) (11.1.1-AR144)	54	Sqm		
34	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.All kinds of soil	146.4	CUM		
34	Excavating, supplying and filling of local earth (including royalty) bymechanical transport upto a lead of 5km also including ramming andwatering of the earth in layers not exceeding 20 cm in trenches, plinth,sides of foundation etc. Complete	7695	CUM		
<b>PART(B1) Total Cost e/x GST</b>					
<b>B2:- Rain Water Harvesting system at Ghazipur Store</b>					
S. No.	Description of item	Qty	Unit	Rate	Amount (Rs.)
1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, repairing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per directionof Engineer-in-charge, upto 90 metre depth below ground level. 150 mm dia . All types of soil	150	Mtr.		
2	Supplying, assembling, lowering and fixing in vertical position in bore well 100 mm dia well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.	150	Mtr.		
3	Providing and fixing PVC cap / bail plug of approved quality and make as per direction of Engineer- in- charge. 150mm dia.	8	each		
4	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	80	cum		
5	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, ll complete as per direction of Engineer-in-charge.	20	cum		
6	Supplying, filling, spreading & leveling coarse sand of size range 1. mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -incharge.	25	cum		
7	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level-1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	15	cum		
8	Reinforcement for r.c.c work including straightening sitting , bending placign in position and binding all complete . cold twisted bars	1500	kg		
9	Centring and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform (5.9.3-AR44)	70	sqm		
10	Cement plaster 1:3 (1Cement : 3 Coarse sand) finished with a float of neat cement: 12 mm cement plaster.(13.9.1-AR199)	425	sqm		

S.No.	Description of item	Qty	Unit	Rate	Amount
11	Earth work in excavation by mechanical means (hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil. as directed, within a lead of 50 m. All kinds of soil.	375	cum		
12	Filling available excavated earth (excluding rock) in trenches plinth, sides of foundations etc. in layers not exceeding 20 cm in depth : consolidating Ea deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m (2.25-AR15)	100	cum		
13	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	8	cum		
14	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation & plinth level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	40	cum		
15	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- All work upto plinth level 1:4:8 (1 Cement : 4 Coarse Sand : 8 Graded stone agg. 40 mm nominal size)	12	cum		
16	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	200	cum		
17	Providing and fixing HDPE PE 80, 4kgf/sqcm pipes including all plain & brass threaded fittings. This includes jointing of pipes & fittings, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.(External work).200 mm nominal bore	160	Mtr.		
18	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- All work upto plinth level 1:2:4 (1 Cement : 2 Coarse Sand : 4 Graded stone agg. 20 mm nominal size) (4.1.3-AR21)	10	cum		
23	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) allround S.W. pipes including bed concrete as per standard design: 150 mm dia S.W. pipe, (19.2.2-AR441)	140	Mtr.		
24	Providing & fixing GEO textile membrane complete in all respect as per the requirement of Enginner Incharge	60	sqm		
26	Providing and placing in position of precast M30 grade (Cement content @ 340 Kg/cum) RCC trench/ perforated drain cover ( KK/ HPL/ NITCO/ S&S/ Shushma make) upto 500mm wide and of length 2.0-2.25m, welded with 1.6 mm thick MS strip all around, double layered steel reinforcement bar (bottom main bars- 12mm dia @ 90 mm c/c and distribution bars 10mm dia @ 140mm c/c) and top reinforcement (10mm dia, 100mm c/c and distribution bars 8mm dia @ 140mm c/c), two no. lifting hooks of 12 mm dia bar with PVC cap, finishing top surface with neat cement punning, etc complete as per the direction of EIC. 150 mm thick.	72	sqm		
27	Providing and placing Nylon mesh (Saint Gobain, Netlon or equivalent brand) in between two layers of filtering medium as per direction of EIC.	200	sqm		
28	Providing mobile crane for lifting the structure as desired height.	4	Day		
29	P/F continuous steel barricading including cost of all material plant, consumeables, transport and labour for shifting, placing, painting and regular maintenance.	300	sqm		
<b>Total Cost PART(B2) e/x GST</b>					
<b>Total Cost PART (B=B1+B2) e/x GST</b>					
<b>GRAND TOTAL (Part- A + B) e/x GST</b>					
<b>GST @ 18%</b>					
<b>GRAND Total (Part-A + B) i/c GST @18%</b>					