

B.O.Q						
Name of Work :- " Construction of Common Facility Center at Kaliabor Silk and Handicraft Cluster".						
Sl. No	Item no.	Description of Work	Unit	Quantity	Rate (In Rs.)	Amount (In Rs.)
1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified. (b) In hard/ dense soil	Cum	79.97		
2	4.1.1	Providing soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a).Brick on flat soling.	Sqm	204.80		
3	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately). (a) In prop 1 cement: 3 sand :6 coarse aggregate by volume	Cum	4.33		
4	18.1.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)				
		(ii) Super Ductile (SD) TMT reinforcement bars	Qtl	71.75		
		c) ISI approved Mild steel reinforcement bar(M.S.Bar)	Qtl	1.56		
5	3.1.1	Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in: Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc.				
	3.1.1.1	(b) Using 25mm thick plank	Sqm	30.04		
	3.1.1.2	Sides of tie beams, grade beams etc. at or below ground level. (b) Using 25mm thick plank	Sqm	65.07		
	3.1.1.3	Columns, Pillars, Posts & Strut (ii) Using 25mm thick plank	Sqm	104.88		
	3.1.1.4	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. (ii) Using 25mm thick plank	Sqm	91.50		
	3.1.1.5	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconies and the like. (a) Floors etc. upto 200mm in thickness. (ii) Using 25mm thick plank	Sqm	180.55		
	3.1.1.10	Staircase with sloping or stepped soffits including risers and stringers but excluding Landing. (Using 38mm thick plank)	Sqm	21.56		
	6	2.2.1	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level			
Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. (N) Without using admixture, plasticiser b) M20 grade concrete or Prop. 1:1.5:3			cum	22.079		
ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing. (N) Without using admixture, plasticiser b) M20 grade concrete or Prop. 1:1.5:3			cum	40.696		
7	4.1.4	Brick work in cement mortar with 1st class brick including racking out joints and curing complete as directed. (b) In proportion 1:4.	Cum	18.577		
8	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.				
		(c) With river sand or silt (predominantly non plastic) by truck carriage including loading and unloading.	Cum	128.37		

9	2.1.3	Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	Sqm	14.36		
10	4.1.8	Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.				
		(A) 112mm thick brick wall				
		(a) In cement mortar in proportion 1:4. (1 cement:4 sand)	Sqm	349.08		
11	9.1.2	Providing wood work in frame (chowkaths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embedded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified.				
		(a) With sal wood	Cum	0.268		
12	9.12.1	Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevant I.S code including oxidised iron butt hinges (100mm x 75mm x 3.5mm) 6 nos with necessary wood screws.				
		a) Decorative type face panel and block board core.				
		(iii) 30 mm thick .	Sq.m.	9.24		
13	11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.				
		(a)2 Track sliding window				
		(iv) 5 mm clear glass	Sqm	3.15		
		(b)3 Track sliding window				
		(iv) 5 mm clear glass	Sqm	36.73		
14	10.2	Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, square or round M.S. bars with round headed bolts and nuts or screws.				
		II Ornamental grill				
		(c) Fixed to Brickwork/P.C.C/R.C.C.	Kg	796.20		
15	6.2.2	15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed.				
		A) On rough side				
		b) In cement mortar 1:4	Sqm	732.79		
		B) On fair side				
		b) In cement mortar 1:4	Sqm	383.67		
16	5.1.5	65 mm thick cement concrete floor consisting of 53 mm under layer of cement concrete in prop. 1:3:6 (1cement : 3 coarse sand : 6 coarse aggregate of 25mm and down) and 12 mm thick wearing coarse of cement sand plastering in prop. 1:2 laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed.	Sq.m	122.40		
17	5.1.1	Providing VITRIFIED floor tiles of approve qualityof specified size shape and thickness not less than 8 mm on floor ,skirting ,risers and treads of step over 15 mmthick base of cement mortar in prop 1:3 including cutting where necy finished with flush pointing with Fix -a-Tile white cement slurry complet at all levels as specified and directed c) Delux Range i) Of size 800 mmx800 mm	Sq.m	109.84		
18	5.1.10	Cement plaster skirting with cement mortar in prop. 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement including rounding of junctions with floor. mm thick				
		a) 15 mm thick	Sq.m	65.83		
19	5.11.1	Providing Antiskid Tiles of approved quality size, shape not less than 8mm on floor, skirting over a cement mortar bed 15mm thick of 1:3 (1 cement: 3 coarse sand) approved make fix with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf)/ white cement complete at all level as specified and directed.				
		(B) VITRIFIED				
		i)Normal range (Sizes 300 mm x 300mm and above)				
		Somany made- Durastone (Unpolished heavy duty Vitrified Tiles)				
		b). Deluxe	Sq.m	18.00		
20	5.7.1.2	Providing polished ceramic wall tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirtings over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey / Sika / Pedelite / Rouf) /white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (Cement plastering to be measured and paid separately). (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department). (Walls means both interior and exterior walls).				
		c) Delux range				
		Somany/ Orient/Nitco/Varmora Make				
		i) Of size 300mmx450mm and above	Sq.m	33.60		

21	7.10.1	Providing and fixing, in position suspended false ceiling using E-Grid (exposed ceiling suspension 2430 system) of grid size 600mm x 600mm/1200mmx600mm with main runner 38 x 24mm, cross tee 29mm x 24mm & wall angle 24mm x 24mm . Using 4mm/6mm thick High Pressure Steam Cured Non Asbestos Fibre Cement Board as per IS 14862, to be placed in a grid of G.I. system duly suspended with 4mm/6mm dia G.I./M.S bar hanger fixed with steel dash fasteners or iron purlin from the roof with adjustment clip providing positions for light fixtures, air conditioning diffuser and ducts, sprinklers, smoke detectors etc. The main runners to be secured to structural soffit by hanger @ 1220mm maximum c/c. The last hanger at the end of each main runner should not be placed at more than 450mm from the adjacent wall. Flush fitting 1220mm cross tee to be interlocked between main runners @ 610mm c/c, so as to form 600mm x 600mm/1200mmx600mm grid, all complete as per the drawing & directions of engineer-in-charge.					
		Finally, if specified, boards are to be painted with 2 coats of acrylic emulsion paint of approved shade/make over a coat of cement primer before installing it on the grid.					
		(A) Standard Ceilings of Everest make or equivalent as directed by the departement (ii) Using 6 mm thick FC Board	Sqm	122.40			
22	18.4.2	Providing and fixing rolling shutters of approved make made of 80mm wide M.S. laths interlocked together through their entire length and jointed together at the ends by end-locks mounted on specially designed pipe shaft with bracket plates, guide channels and arrangements for inside and outside locking with push-pull operation complete including cost of wire, spring and hood cover for the shutters.	Sq.m.	6.48			
23	18.3.2	Providing, fitting, hoisting and fixing of roof trusses fabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollow section of specification RSH/SHS and (iii) M.S. circular hollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications.					
		b) Using other ISI marked approved brand tube	Qtl	20.73			
24	8.1.33	Providing Pre Painted Galvanized Iron Sheet Roofing (PPGI) at all levels including fitting and fixing with self drilling, self tapping screws complete. (Roof trusses, purlins etc. to be measured and paid separately.) TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement					
		(iii) 0.50 mm thick	Sqm	181.26			
25	8.1.34	Providing Pre Painted Galvanized Iron Sheet (PPGI) accessories (Ridges / Valley / Gutter /Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement					
		(iii) 0.50 mm thick	RM	17.20			
26	13.3.4	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)					
		(i) Thickness = 1.5 mm thick	Sqm	732.79			
27	13.4.1	Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.					
		(a).Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	Sqm	855.19			
28	13.9.6	Finishing old/new wall with water proofing weather coat smooth anti-fungal exterior painting of approved make of Dulux (ICI) paint of required shade after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats)	Sqm	383.67			
29	19.1	Providing plinth protection 50mm thick to cement concrete 1 : 3 : 6 with coarse agg.of 20mm nominal size including finishing the surface with 10mm thick cement plaster in proportion 1:3 with a floating coat of neat cement finished.	Sqm	38.10			
30	18.9.2	providing and fixing MS Tube Hand rail of approved size by welding etc to steel ladder railing balcony railing staircase railing and similar work including applying priming coat of approved steel primer complete as specified and directed by department.	Kg	200.00			
31	13.6.3	Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter , sand papering and knotting.					
		(a). With ready mixed paint , Wood primer (pink)	Sqm	27.82			
32	13.6.5	Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping.					
		(i).Surfaces over 100mm in width or girth. b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	Sqm	27.82			
33	13.7.2	Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by thoroughly cleaning oil,grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper.					
		a). With ready mixed "red-lead/ red oxide" primer.	Sqm	84.04			

34	13.7.4	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint of approved brand and manufacture(Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.				
		(i).Surfaces over 100mm in width or girth. b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	Sqm	84.04		
35	15.2.1	Supplying, fitting, fixing anodised aluminium fittings of approved make, reasonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)				
		a) Sliding door bolts				
		i) 300mm x 16mm	Each	6.00		
		b) Tower bolts				
		ii) 250mm x 12mm	Each	12.00		
		c) Door handles				
		iii) 150mm	Each	12.00		
		m) Mortice lock vertical type				
		iii) 100mm(Godrej with handle (6 lever)	set	1.00		
36		Supplying fitting fixing uPVC fenesta fixed type windows and sliding type door with all kinds of fittings wall connector ,handle,sash etc finished with plastering the wall and making good surface .				
		(2) Super Luxury S & F Door (supplementary item)	Each	1.00		
		(A) Cost of Civil Works.				
		Sanitary and Water supply Works				
37	1.1	Providing fitting and fixing vitreous water closet squatting pan (Indian type W.C Orissa pattern) with all fittings and fixtures complete including cutting and making good to the walls and floors wherever required. (Flushing Cistern to be paid separately)				
		Indian type W.C Orissa pattern of size 580 x 440 mm				
		a) White ii) Hindware make	Each	2.00		
38	1.5	Supplying, fitting and fixing PVC flushing cistern with all internal fittings with CI brackets including fitting and fixing standard size CP flush pipe, union clamps etc. compete as directed and specified (pipes will be measured separately)				
		i) Parryware make				
		a) White (iv) Deluxe Dual Flush (Cat No.C8110)	Each	2.00		
39	1.8	Providing fitting and fixing vitreous china flat back type lipped front urinal basin with standard flush pipe and CP brass spreader andbrass unions, etc. complete including painting of fittings and brackets, cutting and making good the walls & floors wherever required.				
		(B) Hindware Make				
		(a) White (ii) Dyna (Cat. No.60010)	Each	2.00		
40	1.9	Providing fitting and fixing vitreous china squatting plate urinal with automatic flushing cistern with standard flush pipe and CP brass spreader andbrass unions, etc. complete including painting of fittings and brackets, cutting and making good the walls & floors wherever required.				
		(A) Parryware Make (i) White (Cat. No. C0503)	Each	1.00		

41	1.13	Providing vitreous China wash basin with CI/MS brackets, C.P brass chain with plug,PVC waste pipe including painting of fittings and brackets, cutting and making good the walls wherever required. (Pillar cock, stop cocks, waste coupling are to be paid separately)					
		PEDESTAL BASIN (with pedestal)					
		(B) Hindware Make					
		(a) White (i) CEDER 570 x 440 (Cat. No.91049/91115)	Each	4.00			
42	1.18	Providing fitting and fixing Mirror with plastic frame of size 500x400mm complete as directed and specified.	each	4.00			
43	1.21	Providing, fitting and fixing recessed soap tray / soap dish complete as directed and specified.					
		(b) Sona Make (i) Soap dish light (Cat.No.TR-0661)	each	4.00			
44	1.24	Providing, fitting and fixing CP towel rail complete as directed and specified.					
		(b) Sona make (ii) Towel rail Diplomat 450mm long (Cat.No.TR-0605)	each	4.00			
45	1.37.1	Supplying, fitting and fixing PVC pipes of 6 Kg/cm2 (Supreme/Prince) or other ISI approved including joining ,fitting and fixing with clamps etc.as necessary complete at all levels including below G.L as directed and specified.					
		a) In exposed surfaces or in trenches. (ii) 110mm dia.	RM	24.00			
		(iv) 75 mm dia	RM	18.00			
46	1.37.2	Supplying, fitting and fixing 87.5 degree PVC bend of (Supreme/Prince) or other ISI approved including joining ,fitting and fixing etc.as necessary complete at all levels including below G.L as directed and specified.					
		a) In exposed surfaces or in trenches. (ii) 110mm dia.	each	8.00			
		(iv) 75 mm dia.	each	10.00			
47	1.37.5	Supplying fitting and fixing PVC Plain single tee of (Supreme/ Prince) or other ISI approved including joining, fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.					
		a) In exposed surfaces or in trenches. (ii) 110mm dia.	each	2.00			
		(iv) 75 mm dia.	each	4.00			
48	1.42	C.P. Grating (ii) 110mm dia	each	6.00			
49	1.51	Construction of filter bed in soak pit including earth work in excavation of soil and then filling up of the trench with brick bats/Charcoal covered with earth over a layer of A.C. plain sheet above brick bat	Cum	1.01			
50	1.52	Construction of inspection pit inside measurement 450mm x450mm x450mm flush with 100mm diameter HCl/PVC pipes and cement concrete base in proportion 1:3:6 over flat brick soling, 12cm brick wall in cement mortar in proportion 1:4 finished with 13mm cement plaster in proportion 1:2 in side wall and floor. 450mm x450mm air tight C.I. inspection pit cover and frame complete including supplying of materials, necessary excavation of pit as directed.	each	1.00			
51	3.1.6	Providing and fixing Chlorinated Polyvinyle Chloride (CPVC) Pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe					
		(A) Exposed or in trenches c) 25 mm nominal outer dia pipe	RM	36.00			
		b) 20 mm dia	RM	18.00			
		(B) Concealed pipe with cutting chases & making good the walls a) 15 mm dia	RM	24.00			
52	3.2.1	Supplying fitting and fixing C.P. bib cock 15mm dia of approved brand directed and specified. (G.I. & C.P pipes will be measured separately)					
		Jaquare make (ii) Bibcock long thread	Each	5.00			
53	3.3.2	Supplying fitting and fixing chrome plated (C.P.) stop-cock of approved brand and size as mentioned below as directed and specified.(G.I. & C.P pipes will be measured and paid separately)					
		Jaquare make (iii) 15mm dia(Concealed stop cock reduced body)	Each	8.00			
54	3.5.1	Supplying and fitting fixing C.P. pillar cock of 15mm dia of approved brand as specified and directed.					
		Jaquare make (b)Long neck with areator	Each	4.00			
55	3.17.2	Supplying and fitting ball valve as specified and directed..					
		a) 25 mm dia. (gun metal)	Each	3.00			

56	3.17.3	Supplying fitting and fixing gun metal check valve including necessary threads to pipes.				
		b) 40 mm dia (Heavy type)	Each	1.00		
57	5.3.4	Labour for boring hole for inserting tube well pipes through different soil/ rock media including hire charges of drill pipes, scaffolding, tools and plants as necessary and taking out the same and lowering pipes, fittings complete as directed by the Department.				
		i) Bore hole of 75mm diameter	Rm	42.00		
58	5.3.5	Supplying, fitting and fixing pipes plain/bevel ended for casing, conforming to relevant IS codes of practice including supplying and fitting of tube well accessories, lowering of assembly pipes concentrically in the borehole followed by supplying and packing of pea gravel free from dirt, dust and other foreign materials in the annular space between the borehole and assembly pipes complete as directed by the Department.				
		PVC PIPE				
		i) 50mm diameter	Rm	40.00		
59	5.3.6	Supplying, fitting and fixing suction pipes plain/bevel ended, conforming to relevant IS codes of practice including supplying and fitting of accessories, lowering of assembly pipes concentrically in the casing pipes complete as directed.				
		B) PVC PIPE				
		i) 25mm diameter	RM	24.00		
60	5.3.9	Supplying fitting and fixing ISI approved PVC filter 3.00 metre long.	Each	1.00		
61	5.4.2	Supplying and placing plastic cylindrical vertical cloused top (PCVC) tank of Sintex / Polycon / Patton make over the staging with manhole cover with locking and cleaning arrangement including providing pads of size as required for inlet and outlet pipes				
		500 litre capacity				
		(a) Sintex make	Each	1.00		
62	6.2.1	Supplying and placing ferrocement septic tanks of rectangular shape in to pit with manhole cover with cleaning arrangement over single brick flat soling and 75mm 1:3:6 P.C.C. Baffle wall, inlet and outlet etc are provided at suitable points complete as directed.				
		50 User	Each	1.00		
		(B) Cost of sanitary & water supply Works				Rs
		Totalcos(t A+B)=				Rs

Rupees.....

Name of Work :- " Construction of Common Facility Center at Kaliabor Silk and Handicraft Cluster".

B.O.Q

ABSTRACT OF COST			
1	Cost Of Civil Works	Rs	
2	Cost Of sanitary and water Supply Works	Rs	
3	Cost of Internal Electrification 8.28% of Civil works	Rs	
	(1+2+3)	Rs	
4	Add GST 7%	Rs	
	TOTAL	Rs	
		Say	Rs
(Rupees.....			