PROPOSED ESTIMATE FOR EXTENSION OF FIRST FLOOR& SECOND FLOOR OF GYMNASIUM BUILDING UNDER CITY COLLEGE, KOLKATA

AREA OF FIRST FLOOR-1550 SQ FT (144 SQM) AREA OF SECOND FLOOR-1550 SQ FT (144 SQM)

RATE AS PER WBPWD SCHEDULE OF RATE 2017, 3rd Corr And 10 th Corr

Description of item	No	L(M)	B(M)	H(M)	Oty	Unit	Rate	Amount
Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in ground floor as per relevant IS codes. a) Pakur Variety								
FIRST FLOOR					10.000			
Slab	1.0	144	.000	0.125	18.000	cum		
Beam	1.0	108.000	0.300	0.400	12.960	cum		
Stair waste slab	2.0	4.000	1.500	0.150	1.800	cum		
landing	1.0	3.000	0.900	0.150	0.405	cum		
stair beam	1.0	3.300	0.250	0.300	0.248	cum		
	1.0	3.300	0.250	0.300	0.248	cum		
stair step	10.0	0.250	0.150		0.563			
column	20.0	0.300	0.400	3.300	7.920	cum		
mumty column	4.0	0.350	0.600	3.500	2.940	cum		
mumty roof	1.0	4.000	4.000	0.125	2.000	cum		
lintel	1.0	50.000	0.250	0.150	1.875	cum		
chajja	15.0	0.450	2.000	0.075	1.013	cum		
partition lintel	1.0	0.125	0.150	20.000	0.375	cum		
					50.345	cum	6,081.94	306,195.12
SECOND FLOOR					50.345	cum	6,199.94	312,135.83
Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor) (When the height of a particular floor is more than 4 m the equivalent floor height shall be taken as 4 m and extra for works beyond the initial 4 m ht. shall be allowed under 12 (e) for every 4 m or part thereof) (c) Steel shuttering or 9 to 12 mm thick approved quality ply board shuttering in any concrete work								
Slab bottom	1.0	144	.000		144.000	sqm		
slab side	1.0	60.000	0.125		7.500	sqm		
Beam	2.0	108.000	0.400		86.400	sqm		
Stair waste slab	2.0	4.000	1.500		12.000	sqm		
waste slab side	2.0	5.000	0.150		1.500	sqm		

Sl no	Description of item	No	L(M)	B(M)	H(M)	Oty	Unit	Rate	Amount
	landing	1.0	3.000	0.900		2.700	sqm		
	stair beam	2.0	3.300	0.250		1.650	sqm		
		2.0	3.300	0.250		1.650	sqm		
	stair step	20.0	1.500	0.150		4.500	sqm		
	column	20.0	1.400	3.300		92.400	cum		
	mumty column	4.0	1.400	0.900		5.040	cum		
	mumty roof	1.0	4.000	4.000		16.000	cum		
	lintel	2.0	61.250	0.150		18.375	cum		
	chajja	15.0	0.450	2.000		13.500	cum		
	partition lintel	2.0	30.000	0.150		9.000	cum		
						416.215	sqm	369.00	153,583.34
	SECOND FLOOR					416.215	sqm	373.00	155,248.20
	of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.(a) For works in foundation and upto roof of ground floor/upto 4 m (i) Tor steel/Mild Steel TATA/SAIL/RINL								
	1.15% area of concrete FIRST FLOOR					4.54489		60,580.00	275,329.73
4	1.15% area of concrete SECOND FLOOR Supplying and laying Polythene Sheet (150gm / sq.m.) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches					4.54489 832.430		60,873.00	19,978.32
5	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface](ii) With 1:6 cement mortar (a) 20 mm thick plaster outside								-
	wall	2.0	28.000	3.400		190.400	cum		-
	parapet	2.0	28.000	1.500		84.000	cum		
	deduction for window	-4.0	1.200	1.350	0.330	-2.138	cum		
						272.262	_	175.00	47,645.78
	SECOND FLOOR					272.262	sqm	179.00	48,734.83

C1	Description of item	No	L(M)	B(M)	H(M)	Oty	Unit	Rate	Amount
no	Description of item	INO	L(WI)	D(M)	11(1V1)	Oty	Oint	Kate	Amount
	Plaster (to wall, floor, ceiling etc.) with sand and cement								
	mortar including rounding off or chamfering corners as								
	directed and raking out joints including throating, nosing								
	and drip course, scaffolding/staging where necessary								
	(Ground floor).[Excluding cost of chipping over								
	concrete surface](ii) With 1:6 cement mortar								
	(a) 15 mm thick plaster inside								
						680.654	sqm		-
						680.654	sgm	151.00	102,778.75
						680.654	_	155.000	102778.754
7	Plaster (to wall, floor, ceiling etc.) with sand and cement								-
	mortar including rounding off or chamfering corners as								
	directed and raking out joints including throating, nosing								
	and drip course, scaffolding/staging where necessary								
	(Ground floor).[Excluding cost of chipping over								
	concrete surface](ii) With 1:4 cement mortar (a) 10 mm								
	thick plaster								
	FIRST FLOOR	1.0	144.000	1.100		158.400	-		
						158.400	_	133.00	21,067.20
	SECOND FLOOR					158.400	_	137.000	21067.200
8	Supplying and laying true to line and level vitrified tiles	1	144	0.8		115.20	sqm	3RD	
	of approved brand (size not less than 600 mm X 600							CORR	
	mm X 10 mm thick) in floor, skirting etc. set in								
	20 mm sand cementmortar (1:4) and 2 mm thick								
	cement slurry back side of tiles using cement @								
	2.91Kg./sqM or using polymerised adhesive (6 mm								
	thick layer applied directly over finished artificial								
	stone floor/Mosaic etc without any backingcourse) laid								
	after application slurry using 1.75 Kg of cement per sqM belowmortar only, joints grouted with admixture of								
	white cement and colouring pigment to match with								
	colour of tiles / epoxygrout materials of approved								
	make as directed and removal of wax coating of top								
	surface of tiles with warm water and polishing the								
	tiles using soft and dry cloth upto mirror finish								
	complete including the cost of materials, labour and all								
	otherincidental charges complete true to the								
	manufacturer's specification and direction of								
	Engineer-in-Charge. (Whitecement, synthetic adhesive								
	and grout material to be supplied by the contra conc (I)								
	With application slurry @1.75 kg/ Sq.m, 20 mm sand								
	cement mortar (1:4) & 2 mm thick cement slurry at								
						230.400		1,285.00	296,064.00
10	Supplying bubble free float glass of approved make and	12	1.2	1.35		19.44	sqm	468.00	9,097.92
	brand conforming to IS: 2835-1987.ii) 4mm thick								
	coloured / tinted / smoke glass.								

	Description of item	No	L(M)	B(M)	H(M)	Oty		Unit	Rate	Amount
11	Supplying, fitting & fixing of 2-Track / 3-Track Aluminium sliding 3 Window of all Aluminium sections viz. window frame (top,bottom & side frame), shutter (top, bottom, side & interlock member) made of aluminium alloy extrusions conforming to IS 733-1983 & IS 1285-1975, annodised conforming to IS 1868- 1983, fitted with all other accessories viz. PVC roller, EPDM gasket, maruti lock, screws etc. including labour charges for fitting & fixing of aluminium 2-track/3-track sliding window with fixing of glass (excluding cost of glass) all complete as per architectural drawings and direction of Engineer-in-charge. 10-12 Micron thickness Annodizing film Natural white					40	0.00	KG	448.00	17,920.00
	(R) ALUMINIUM WORKS									-
12	Supplying, fitting and fixing windows and ventilators with or without integrated grills conforming to IS 1038-1975 and manufactured from rolled steel sections conforming to IS 7452-1974 with non-friction projecting type, box type hinges, glazing clips, lugs locking bracket, handle plate etc, including hoisting in position, straightening if required, fixing lugs in cement concrete (1:2:4) with stone chips 20 mm down cutting holes and mending good damages to match with existing surface complete in all respect excluding glazing.									-
	In Ground floor Flash butt welded windows and ventilators (No shop priming will be allowed to facilitate inspection of workmanship) Without integrated grills.									-
13	(a) Fixed type steel windows as per IS sizes with horizontal glazing bars.									-
	(A) AT GROUND FLOOR					5	.00	Sq. M.	1330.00	6,650.00
14	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in							IVI.		-
	(A) AT GROUND FLOOR					0	0.00	SqM	722.00	-
	(B) AT FRIST FLOOR	1	15	3.2				SqM		-
		10	2	0.6		12	.00	SqM		-
						60	.00	Sqm	734.00	44,040.00
15	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc. FLOOR With Sand Cement Mortar (1:3) 15 mm thick &									-
	2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m									
Ц	(b) Area of each tile upto 0.09 Sq.m	<u> </u>						<u> </u>		-

Sl no	Description of item	No	L(M)	B(M)	H(M)	Oty	Unit	Rate	Amount
	(i) Coloured decorative at Wall							3RD	
	(A) AT GROUND FLOOR					0.00	SqM	705.00	-
	(B) AT FRIST FLOOR					20.00	SqM	710.00	14,200.00
	.(B) Wall With Sand Cement Mortar (1:3) 15 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m								-
	(b) Area of each tile upto 0.09 Sq.m (i) Coloured decorative at Wall							3RD	-
	(i) Coloured decorative at wall							CORR	
	(A) AT GROUND FLOOR					0.00	SqM	749.00	-
	(B) AT FRIST FLOOR					30.00	SqM	754.00	22,620.00
	(F) STRUCTURAL STEEL WORKS, GRILLS, GATES ETC.								-
16	M.S.or W.I. Ornamental grill of approved design joints continuously welded with M.S, W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor.								-
	(ii) Grill weighing above 10 Kg./sq.mtr and up to 16								-
	Kg./sq. mtr (A) AT GROUND FLOOR		-		+	0.00	Qntl	9888.00	_
	(B) AT FIRST FLOOR	5	1.2	1.35	14	1.13	_	9986.88	11,325.12
	(C) AT SECOND FLOOR	5	1.2	1.35	14	1.13		10086.75	11,438.37
17	Collapsible gate with 40mm x 40mm x 6mm Tee as top and bottom guide rail, 20mm x 10mm x 2mm vertical channels 100mm apart in fully stretched position 20mm x 5mm M.S. flats as collapsible bracings properly rivetted and washered including 38mm steel rollers including locking arrangements, fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc. in walls, floors etc. and making good damages complete.								-
	(A) AT GROUND FLOOR					2.00	Sq. M	3726.00	7,452.00
18	(G) CARPENTER'S WORKS Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame exluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be correted upto three decimals).								-
	Sal : Malaysian Sal (A) AT GROUND FLOOR					0.00	CuM	83218.00	-
	(B) AT FRIST FLOOR						CuM CuM		20,854.50
	SECOND FLOOR						CuM CuM		20,854.50
	SECOND FLOOR					0.23	. Culvi	05-10.00	20,054.50

Sl	Description of item	No	L(M)	B(M)	H(M)	Oty	Unit	Rate	Amount
19	Panel shutters of door and window, as per design (each panel consisting of single plank without joint), including fitting and fixing the same in position but excluding the cost of hinge and other fittings. In ground floor. (In case of non-supply of single plank, penal rate of reduction of 20% will be made)(ii) 40mm thick shutters with 19mm thick panel of size 30 to 45 cm(a) Ordinary Teak Wood								-
	(A) AT GROUND FLOOR					0.00	SqM	4542.00	-
	(B) AT FRIST FLOOR					6.00	SqM	4557.00	27,342.00
	SECOND FLOOR					6.00	SqM	4557.00	27,342.00
20	Supplying, Fitting & Fixing 30 mm thick Factory made solid Panel PVC Door Shutter consisting of outer frame made out of M.S. tubes of 19 gauge thickness and size 19 mmx19 mm for styles, top and bottom rails, M.S. frame shall have cost of steel primers of approved make and manufacture, M.S. frame covered with 5 mm th. heat moulded PVC "C" channel of size 30 mm th, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on either sides forming styles; and 5 mm th. 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm tapered in 45 degree on the inner side to form top & bottom rail and 115 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel with 10 mm (5 mmx2) th.,20 mm wide cross PVC sheet as gap insert for top rail and bottom rail. Paneling of 5 mm th. both side PVC sheet to be fitted in the M.S. frame welded/sealed to the styles & rails with 7 mm (5 mm+2 mm) th.x15 mm wide PVC sheet beading on inner side and joined together with solvent cement adhesive. An additional 5 mm th. PVC strip of 20 mm which is to be stuck on the interior side of the "C" channel using PVC (A) AT GROUND FLOOR						SqM SqM	1943.00 1958.00	19,580.00
21	rebate) made o5f single piece extruded solid PVC profile with homogenous fine cellular structure having smooth outer integral skin having 62mm width x 32 mm thickness (the door frame is to be made with single piece extruded solid pvc profile whereas no sheet pasted profile shall be applied for door frame fabrication) and shall be fixed to wall as per instructions of Engineer – in – charge using 100 x 8 sheet metal CSK screws. (A) AT GROUND FLOOR (B) AT FRIST FLOOR					0.00 20.00	Mtr.	483.00 483.00	9,660.00
22	DOOR & WINDOW APPLIENCE Anodised aliminium D-type handle of approved								-
	quality manufactured from extruded section conforming to I.S. specification (I.S. 230/72) fitted and fixed complete:(a) With continuous plate base (Hexagonal / Round rod)								

Sl no	Description of item	No	L(M)	B(M)	H(M)	Oty	Unit	Rate	Amount
	(v) 125 mm grip x 12 mm dia rod.					5.00	Each	118.00	590.00
23	Supplying, fitting and fixing M.S. clamps for door and window frame made of flat bent bar, end bifurcated with necessary screws etc. by cement concrete(1:2:4) as per direction. (Cost of concrete will be paid separately).					-			
	40mm X 6mm, 250mm Length					25.00	Each	33.00	825.00
24	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark 100mm X 50mm X 1,25mm					25.00	Each	48.00	1,200.00
25	Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16mm dia rod						Each		1,930.00
26	with centre bolt and round fitting. 300mm long. Door stopper.(Brass)					10.00	Each	134.00	1,340.00
	Sanitary Work								-
	PVC PIPE WORK								-
27	Supplying, fitting and fixing PVC pipes of approved makeof (medium duty) conforming to ASTMD - 1785 and threaded to match with GI Pipes as per IS: 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrew, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. Payment for painting will be made seperately) Supreem made								
	(a) For Exposed Work PVC Pipes (Dia)					20.00		142.00	- 2.040.00
	20 mm (a) For Concealed work					20.00	Mitr.	143.00	2,860.00
28	15 mm Supplying, fitting and fixing Peet's valve fullway gunmetal standard pattern best quality of approved brand bearing I.S.I. marking with fittings (tested to 21 kg per sq. cm.). 20mm mm dia					10.00	Mtr.	141.00	1,410.00
	UPVC PIPE WORK								_
29	Supply of UPVC pipes (B Type) and fittings conforming to IS-13592-1992								-
<u> </u>	(A) (i) Single Socketed 3 Mtr. Length b) 110 mm					20.00	Mtr.	348.00	6,960.00
	(B) Fittings (110 MM) (i) Coupler						Each		505.00
	(ii) Door Tee (110 mm)					5.00	Each	233.00	1,165.00
	(iii) Door Y (LH) & (RH).(110 MM)					5.00	Each	329.00	1,645.00
	(iv) Door Bend T.S 110 mm					5.00	Each	176.00	880.00

Sl	Description of item	No	L(M)	B(M)	H(M)	Oty	Unit	Rate	Amount
	(v) Plain Tee					5.00	Each	182.00	910.00
	(vi)Bend 45 Degree					5.00	Each	106.00	530.00
	(vii) Pipe Clip 110 mm					5.00	Each	25.00	125.00
	(vii) Vent Cowl					1.00	Each	39.00	39.00
30	Labour for fitting and fixing U.P.V.C piupes for above ground w6ork including cost of joining materials etc. fitting and fixing all necessary specials, cutting pipes, cutting holes in walls or R.C floor where necessary and mending good all damages excluding the cost of masonry or concrete work, if necessary but including the cost and fitting and fixing holder bat clamps (any floor) or for underground work including cutting trenches upto 1.5 mtr. and refilling the same complete as per direction of the Engineer - in - Charge. (payment will be made on centre line measurment of the total pipe line including specials)								-
	(A) Above ground								-
	(ii) 110 mm W.C APPLIENCE		-			60.00	Mtr.	57.00	3,420.00
31	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm X 75 mm X 75 mm wooden blocks complete.								-
	590 mm X 390 mm X 380 mm					1.00	Each	2990.00	2,990.00
32	Supplying, fitting and fixing Squating plate with integral flushing in white vitreous chinaware of approved make in cement concrete (6:3:1) with jhama chips complete. (Payment of concrete will be paid seperately).					-			
	450 mm X 350 mm					1.00	Each	1103.00	1,103.00
33	Supplying, fitting and fixing porcelain partition wall of approved make of size					-			
	618 mm X 310 mm complete in all respect.					2.00	Each	1459.00	2,918.00
34	Supplying, fitting and fixing Anglo-Indian W.C. in white glazed vitreous china ware of approved make complete in position with necessary bolts, nuts etc. Hindware/Parryware/Cera, made					-			
	(a) With 'S' trap					2.00	Each		8,406.00
35	Supplying, fitting and fixing 10 litre P.V.C. low-down cistern conforming to I.S. specification with P.V.C. fittings complete, C.I. brackets including two coats of painting to bracket etc. White					2.00	Each	1181.00	2,362.00
36	Supplying, fitting and fixing Closet seat of approved make with lid and C.P.hinges, rubber buffer and brass screws complete.					-	П.	550.00	
	(b) Anglo Indian (ii) Plastic (hallow type) white					2.00	Each	572.00	1,144.00

	Description of item	No	L(M)	B(M)	H(M)	Oty	Unit	Rate	Amount
37	Supplying, fitting and fixing approved brand 32 mm					-			
	dia. P.V.C. waste pipe, with coupling at one end fitted with necessary clamps.								
	1050 mm long					8.00	Each	107.00	856.00
	BATHROOM & KITCHEN APPLIENCE					-			
38	Supplying, fitting and fixing white vitreous china					-			
	best quality approved make wash basin with C.I. brackets on 75 mm X 75 mm wooden blocks, C.P. waste fittings of 32 mm dia., one approved quality brass C.P. pillar cock of 15 mm dia., C.P. chain with rubber plug of 32 mm dia., approved quality P.V.C. waste pipe with C.P. nut 32 mm dia., 900 mm long approved quality P.V.C. connection pipe with heavy brass C.P. nut including mending good all damages and painting the brackets with two coats of approved paint.								
	(iii) 630 mm X 450 mm size					2.00	Each	3873.00	7,746.00
39	Supplying, fitting and fixing pedestal of approved make for wash ba7sin (white)					2.00	Each	1911.00	3,822.00
40	Supplying, fitting and fixing stainless steel sink complete with waste fittings and two coats of painting of C.I. brackets.					-			
	(ii) 630 mm X 550 mm X 180 mm					1.00	Each	4798.00	4,798.00
41	Supplying, fitting and fixing approved brand P.V.C. CONNECTOR white flexible, with both ends coupling with heavy brass C.P. nut, 15 mm dia.								-
	(iii) 600 mm long					6.00	Each	126.00	756.00
42	Supplying, fitting and fixing pillar cock of approved make.					-			
43	a) (ii) CP Pillar Cock Super Deluxe with Aerator - 15 mm. (Equivalent to Code No. 508 & Model No. Tropical / Sumthing Special of ESSCO or similar brand).					5.00	Each	760.00	3,800.00
44	Supplying, fitting and fixing towel rail with two brackets.								-
	(a) (ii)C.P. over brass (iii) 25 mm dia. and 750 mm long					5.00	Each	613.00	3,065.00
45	Supplying, fitting and fixing best quality Indian make mirror 5.5 mm thick with silvering as per I.S.I. specifications supported on fibre glass frame of any colour, frame size					-			
	550 mm X 400 mm					2.00	Each	792.00	1,584.00
46	Chromium plated Bib Cock (angular shape with wall flange) (Equivalent to Code No. 5037 & Model - Florentine of Jaquar or similar brand).					5.00	Each	1105.00	5,525.00
47	Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053 & Model - Florentine of Jaquar or similar brand).					5.00	Each	1046.00	5,230.00
48	Chromium plated Hand shower with Flexible Tube & fittings(Equivalent to Code No. Hsh-1937 & (Equivalent to Code No. 5037 & Model - Florentine of Jaquar or similar).).					2.00	Each	2414.00	4,828.00

Sl	Description of item	No	L(M)	B(M)	H(M)	Oty		Unit	Rate	Amount
no										
49	Chromium plated round shower with revolving joint					4	.00	Each	576.00	2,304.00
	100 mm dia with rubid cleaning									
	system (Equivalent to Code No. 542(N) & Model -									
	Tropical / Sumthing Special of ESSCO or similar brand).									
50	Supplying, fitting and fixing C.I. round grating.						-			
	(ii) 150 mm					5	.00	Each	100.00	500.00
51	Supplying, fitting and fixing C.I. square jalli.						-			
	(ii) 150 mm					5	.00	Each	120.00	600.00
	WATER TANK						-			
51	Supplying P.V.C. water storage tank of approved quality						-			
	with closed top with lid (Black)									
	Multilayer									
	(f) 2000 litre capacity					1	.00	Each	12437.00	12,437.00
52	Labour for hoisting plastic water storage tank.						-			
	(f) 2000 litre capacity					1	.00	Each	374.00	374.00
									TOTAL	2,513,783.84
			Add 18%	6 for GST						452,481.09
										2,966,264.94
			Add 1%	for CESS						29,662.65
										2,995,927.59
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Debasis Palui
B. Tech (Civil)
Consultant Engineer
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