॥ ओऽम ॥

 दयानन्द वैदिक कॉलेज

 प्रबन्धकर्तृ समिति, नई दिल्ली द्वारा
संचालित शिक्षा संस्था





Pharathia-822114 Distt.: Garhwa (Jharkhand)

Co-educational, English Medium, Public school, Affiliated to CBSE, New Delhi. **DELHI:** DAV College Managing Committee, Chitragupta Road, New Delhi. Tel.:011-23557384, Fax-011-23632520 **Asstt. Regional Officer, Jharkhand Zone-I, MK DAV Public School, Palamau** 

Ref. No.: DAVGarhwa/2024-25/.7.9.1.

Date: 13./4.1/2025

### TENDER NOTICE

### **Invitation for Quotations for Construction of Boundary Wall**

Quotations are invited from competent contractors for the construction of a 2640 sq. ft. boundary wall of the school. This tender is open for all, anyone can bid in it. The tender will be opened on 27.01.2025.

For detailed specifications, please visit our school before 25.01.2025.

Thank you.

Principal Principal

B. P. DAV Public School Pharathia, Garhwa Jharkhand-822114



Project - School Design Address - Garhwa, Jharkhand.

Client - Principal, D.A.V. Garhwa

Sheet Title

SITE PLAN

NTS

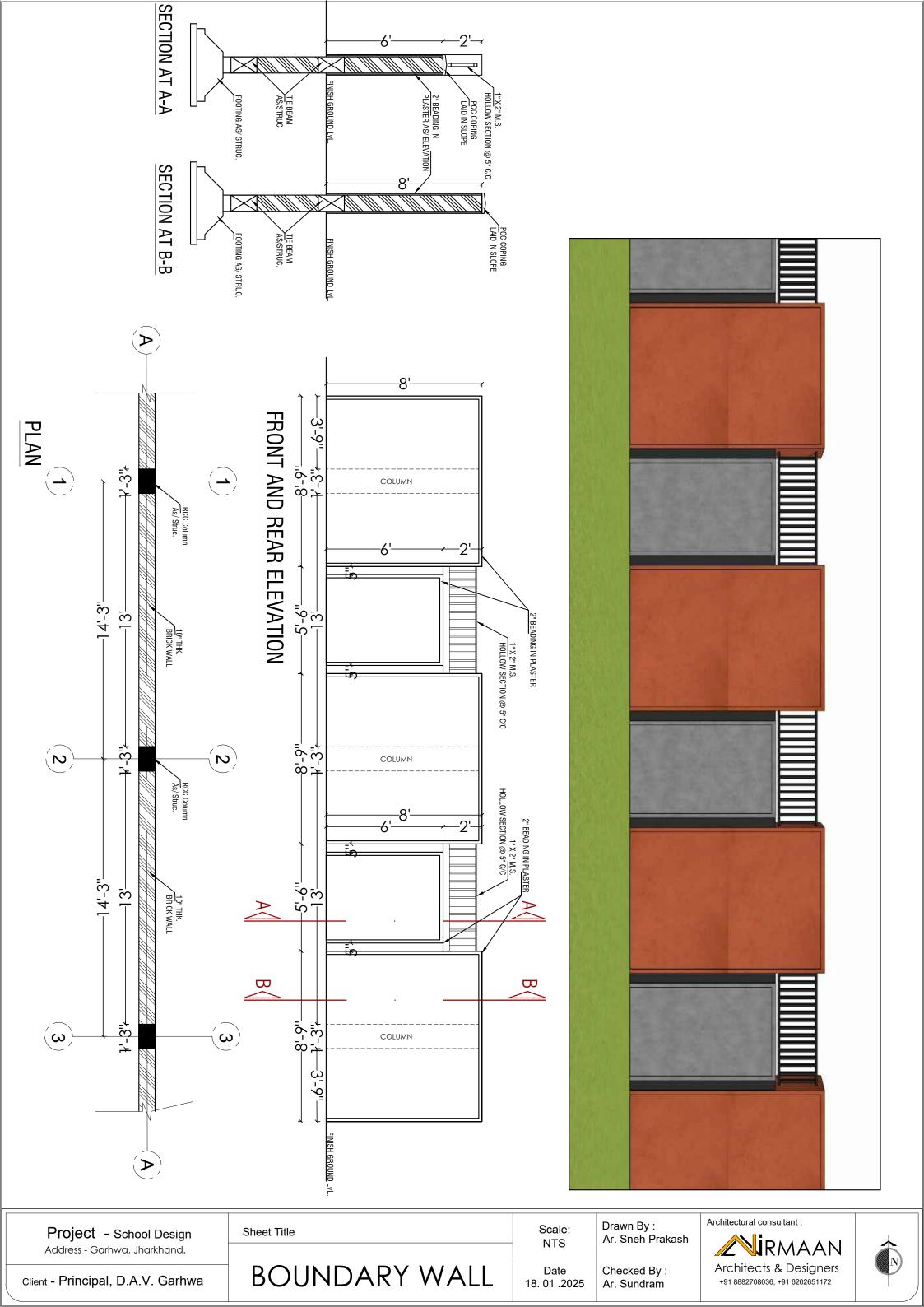
Ar. Sneh Prakash

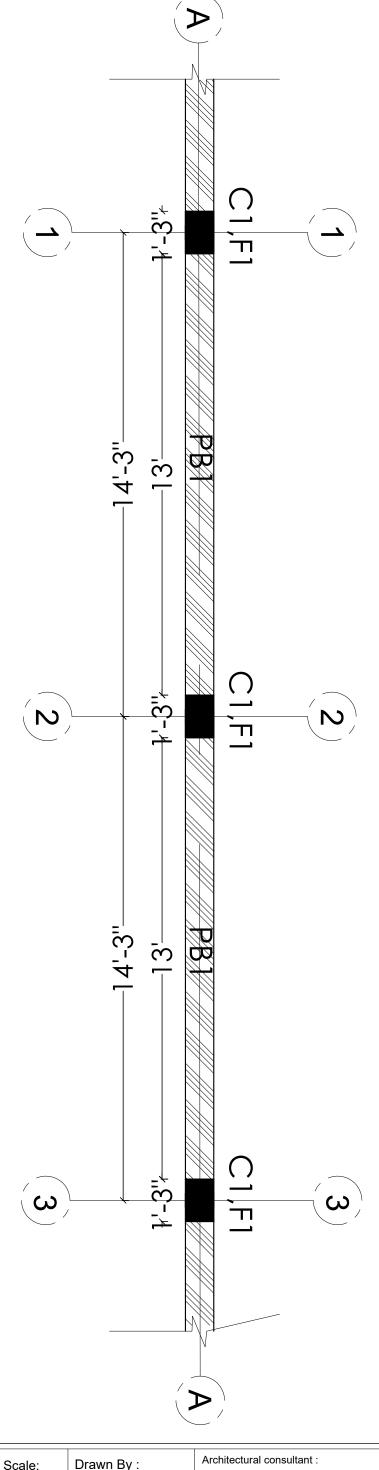
Checked By : Ar. Sundram

Date: 18. 01 .2025

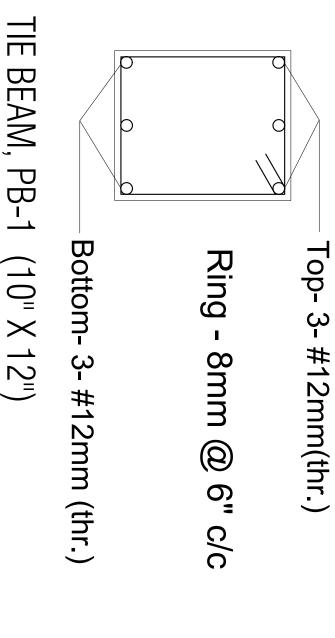








LAYOUT PLAN FOR TIE BEAM AT BOTH LEVELS



Project - School Design
Address - Garhwa, Jharkhand.

Client - Principal, D.A.V. Garhwa

BOUNDARY WALL
(TIE BEAM DETAIL)

Scale: NTS

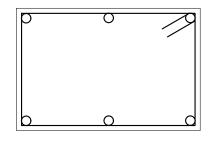
Drawn By : Ar. Sneh Prakash

Date: Checked By : 18. 01 .2025 Ar. Sundram

Architectural consultant:

Architects & Designers
+91 8882708036, +91 6202651172

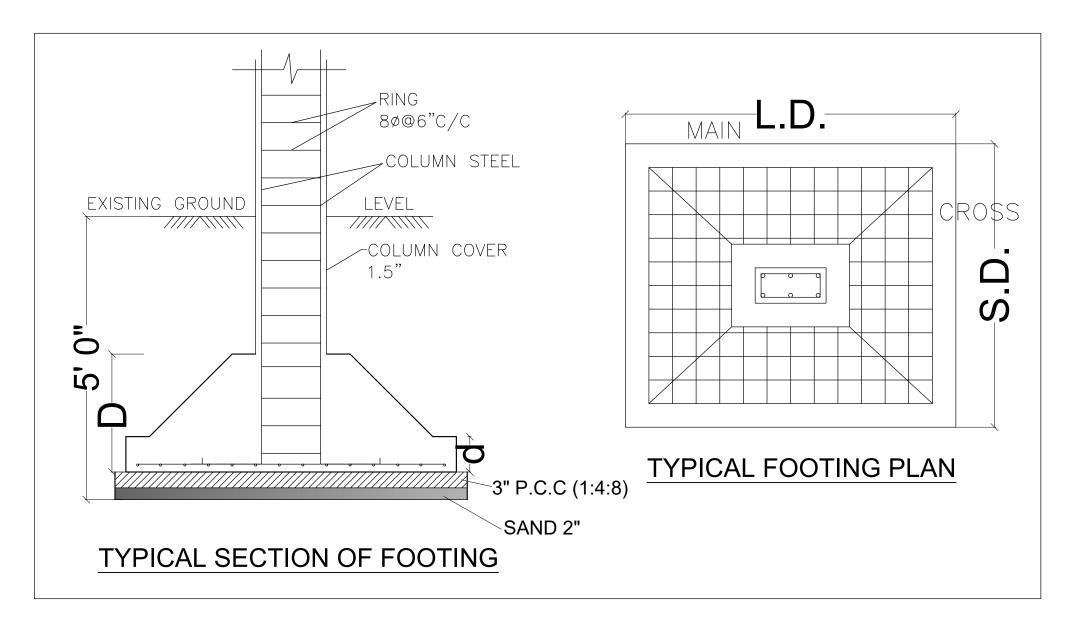




Ver. Rods- 6 - #12mm

Ring - 8mm @ 6"c/c

# Column C-1 (10" x 15")



## **DESIGN OF FOOTING**

NAME	SIZE OF	SIZE OF	DEI	PTH	STEEL			
I W/ VIVIL	EXCAVATION	FOOTING	D	d	L.D.	S.D.		
F1	5'-6" X 5'-6"	5'-0"X5'-0"	24"	6"	10Ø @ 6"C/C	10Ø @ 6"C/C		

# **NOTES:-**

- 1. All dimensions are in feet & inches. unless other wise specified.
- 2. Only written dimensions are to be followed.
- 3. Use concrete mix M-20(1:1.5:3) for all R.C.C. work conforming to IS:-456-2000.
- 4. All concrete shall be machine mixed and machine vibrated.
- 5. Reinforcement bars shall be of grade Fe-500 conforming to IS 1786-2008.
- 6. Clear cover to all reinforcement shall be 40 mm for column & 50 mm for foundation.
- 7. Expansion joints in boundary wall shall be at every 15 metres intervals.



		CIVIL ESTIMATE FOR BOUNDARY V	VALL FOR I	B.P.D.A.V	. PUBLIC	SCHOOL,	GARHWA,	JHARKHAND		
	1	CIVIL ESTIMATE F	OR BOUND	ARY WA	LL OF LE	NGTH 30	METRE			
SI No	1.1 IT.NO.	CIVIL WORK  ITEM OF WORK	UNIT	NOS	LENGTH( M)	WIDTH(M )	HT/DEPTH( M)	QUANTITY.	RATE	AMOUNT
	JSR/DSR						·			JSR-2022
SUB-H	EAD-1 EARTHV	VORKS								
1	5.1.1	Earthwork in excavation in foundation trenches in ordinary soil (vide classification of soil item-A) and disposal of excavated earth as obtained to a distance upto 50 M. including all lifts, levelling, ramming the foudation trenches, removing roots of trees, shrubs all complete as per approved design, building specification and direction of E/I.	CUM	0	4.05	4.05	4.50	20.74		
		Col Footing Expansion col foundn		8 2	1.65 1.93	1.65 1.65	1.50 1.50	32.74 9.53		
		Panel		7	3.90	0.30	0.30	2.46		
							SUB-TOTAL		151.82	6791.45
2	5.1.2	Extra for earth work in hard soil as per specification and direction of E/I. (vide classification of soil item - B). (same quanity as of excavation)	CUM				SUB-TOTAL	44.73	15.51	693.82
3	5.1.7	Filling in foundation trenches and plinth in layers not exceeding 150mm thick well watered, rammed, fully compacted and fine dressed with earth obtained from excavation of foundation trenches within a lead of 50Mand lift of 1.5M all complete as per building specification and direction of E/I. (mode of measurement compacted volume)	CUM				3021017	44.10	10.01	030.02
		Total couth Successful See Side						44.72		
		Total earth Excavated For Fdn. Less Sand filling			<del> </del>			44.73 -2.73		
		PCC						-2.13		
		Less RCC			<u> </u>			-12.65		
	5.1.10							27.24	55.28	1505.71
4		Providing coarse clean sand in filling in foundation trenches or in plinth including ramming and watering in layers not exceeding 150mm thick with all leads and lifts including' cost of all materials, labour, royalty and taxes all complete as per building specification and direction of E/I (Mode of measurement complacted volume).  Col Footing	CUM	8	1.65	1.65	0.08	1.64		
		Expansion col foundn		2	1.93	1.65	0.08	0.48		
		Panel		7	3.90	0.30	0.08	0.62	500.54	1000.00
CIID II	EAD-2 MASON	ADV MODICS					SUB-TOTAL	2.73	589.51	1608.96
<u>50B-H</u>	5.2.3	Providing designation 75 A brick work in C.M.(1:6) in <b>foundation &amp; Plinth</b> with approved quality of clean coarse sand of F.M. 2 to 2.5 including providing 10 mm thick mortar joints cost of screening materials, scaffolding, raking out joints to 15mm depth curing, taxes and royalty all complete as per building specification and direction of E/I.	CUM							
		Brick Wall		7	3.90	0.25	0.33	2.22	5400.05	10000 71
6	5.2.11	Providing designation 75 A brick work in C.M.(1:6) in superstructure with approved quality of clean coarse sand of F.M. 2 to 2.5 including providing 10 mm thick mortar joints cost of screening materials, scafolding, raking out joints to 15mm depth curing, taxes and royalty all complete as per building specification and direction of E/I.	CUM	7	2.25		SUB-TOTAL		5439.85	12096.51
		Brick Panel Grill Panel		7	2.25 1.65	0.250 0.250	2.25 1.65	8.88 4.78		
		Cim i diloi		,	1.00		SUB-TOTAL		5573.67	76124.60
	EAD-3 CONCRI									
7	5.3.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level								
	5.3.1.4	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size) Foundation	CUM							
									<b>I</b>	

		Expansion col foundn		2	1.93	1.65	0.08	0.48	<del>                                     </del>	
		LAPARISION COLIOURUN			1.93	1.00	SUB-TOTAL	2.11	4125.41	8719.14
8	5.3.9	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and					JOB-TOTAL	<u> </u>	7120.41	07 10.14
		reinforcement- All work up to plinth level.								
	5.3.9.1	1:1.5:3 (1 cement: 1.5 coarse sand(zone-III): 3 graded stone aggregate 20 mm nominal size)	CUM							
		Col Footing		8	1.50	1.50	0.50	9.02		
		Expansion col foundn Column		10	1.78 0.25	1.50 0.38	0.55 0.75	2.93 0.70	<del>                                     </del>	
		Osianni		10	0.20	0.00	SUB-TOTAL	12.65	5218.00	66022.55
9	5.3.10	Reinforced cement concrete work in wall (any thickness), including attached pilasters, butterses, plinth and string courses, fillets, column, pillars, piers, abutments, posts and struts ets. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement:  1:1.5:3 (1 cement: 1.5 coarse sand(zone-III): 3 graded stone aggregate 20 mm nominal size)	CUM							
		Col Footing		8	0.25	0.38	2.40	1.80		
		Expansion col foundn		2	0.25	0.00	2.40 SUB-TOTAL	0.00 <b>1.80</b>	6082.45	10972.42
10	5.3.11	Reinforced cement concrete work in beams, suspended floor, roofs having slope up to 15" landing, balconies, shelver, chajjas, lintels, bands, plan window sills, staircases and spiral stair case above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement:  1:1.5:3 (1 cement: 1.5 coarse sand(zone-III): 3 graded stone aggregate 20 mm nominal size)	CUM							
		Band 100 mm								
		Panel		7	3.90	0.30	0.10	0.82 <b>0.82</b>		
		Tie Beam Foundation Level		7	3.90	0.25	0.30	2.05		
		Tie Beam FGL		7	3.90	0.25	0.30	2.05		
								4.11		
11	5.3.17	Centering and shuttering including strutting, propping etc. and removal of form for :					SUB-TOTAL	4.93	6308.87	31079.49
11.1	5.3.17.1	Foundations, footings, bases of columns etc. for mass concrete.  Col Footing		8	1.50	1.50	0.50	24.05		
		Expansion col foundn		2	1.78	1.50	0.55	7.21		
		Column		10	0.25	0.38	0.75	9.39		
44.2	E 2 47 E	Lintels, beams, plinth bams, griders,						40.65	194.50	7906.25
11.2	5.3.17.5	bressumers and contilevers.								
		Lintel Band 250 mm Wall								
		Panel Tie Beam Foundation Level		7	3.90 3.90	0.30 0.25	0.10 0.30	5.47 16.42	<del>                                     </del>	
		Tie Beam FGL		7	3.90	0.25	0.30	16.42		
								38.32	363.97	13945.80
44.0	E 0 47 0	Columns, Pillars, Piers, Abutments, Posts and								
11.3	5.3.17.6	Struts								
		Col Footing		8	0.25	0.38	2.40	24.05		
		Expansion col foundn		2	0.25	0.38	2.40	6.00	10-11	40005.00
SUR-HI	EAD-5 STEEL V	NORKS						30.05	465.38	13985.89
12		Providing TOR steel reinforcement of 8mm (TMT Fe 500) , 10mm (TMT coil Fe 500), 12mm (TMT coil Fe 500), 16mm (TMT coil Fe 500), 20mm (TMT bar Fe 500), 25mm (TMT bar Fe 500) dia rods or bars as per approved design and drawing excluding carriage of bars to work site, cutting, bending, and binding with annealed wire with cost of wire, removal of rust, placing th rods in position all complete as per building specification and direction of E/I. (Only valid for SAIL, TATA Steel, JSPL, Electro Steel Ltd, and Vizal Steel)	MT			⊋ Kg/CUM		M.T.		
		Foundation		12.65	70	.00		0.89		
		Band		0.82		.00		0.00		
		Beam		4.11	<u>ı</u> 170	0.00		0.70		

		Ta .								
		Columns		1.80	170	0.00		0.31		
		(-) 0 (TNAT!  F- 500)				0,000	SUB-TOTAL	1.89	83314.02	# C2 004 22
		(a) 8 mm (TMT coil Fe 500)				8mm	40% 15%	0.76 0.28		₹ 62,994.23 ₹ 23,277.63
		(b) 10 mm (TMT coil Fe 500) (c) 12 mm (TMT coil Fe 500)				10mm 12mm		0.28		₹ 68,797.29
		(C) 12 mm (TWT con Fe 500)				12111111	45%	0.05	00079.07	₹ 60,191.29
13	5.5.30	Supplying, fitting and fixing M.S. grill gate with M.S. grills made of 20xGmm M S. flats or 16mm. M.S. square bars fitted on25x25x 6mm. M.S. Angle frame -do- (when steel is not supplied by the deptt.).					KG/Sqm			
]		Grill	Kg.	7	1.650	0.600	30.00	208.42		
							SUB-TOTAL	208.42	118.98	24,797.94
0115 11		TR. WORKS								
14	<u>EAD-7 PLASTE</u> 5.7.3	Providing 12mm thick cement plaster (1:6) with with								
14	5.7.3	clean coarse sand of F.M. 1.5 and including screening, curing with all leads and lifts of water, scaffolding, taxes and royalty all complete as per building specification and direction of E/I	SQM	44	0.050		2.050	74.05		
		Brick Panel		14 14	2.250		2.250	71.05		
		Grill Panel Top		7	1.650 3.90	0.30	1.650	38.21 8.21		
		Column		10	0.50	0.00	2.40	12.02		
					7.50		SUB-TOTAL	129.49	165.80	21470.23
SUB-H	EAD-8 FINISHII	NG WORKS								
15	22.24A	Providing & Applying high quality acrylic modified resin based texture of Dholpur/Red sand stone Pattern with anti algae and UV resistance properties to be applied as intermediate finish in desired pattern @ 43.04 kg/10 sqm to form film of 1- 1.5 mm thickness after scrapping and properly cleaning the surface to remove loose particles from the plaster surface, followed by top coating with Premium Acrylic Smooth exterior paint with Silicone additives of required shade by two or more coats @ 1.43 litre/10 sqm, complete as the direction of Engineer -in-Charge.	SQM	1	129.49			129.49		
		l Iotal quantity Plaster		-	129.49		SUB-TOTAL	129.49 129.49	532.05	68897.56
16	5.8.45	Providing two coats of synthetic enamel paint of approved shade and make over steel surface including cleaning the surface thoroughly, scaffolding and taxes all complete as per building specification and direction of E/I.					Time	125.45	532.05	00037.30
		Grill		7	1.7	0.60	1.60	11.12		
		Cim		<del>- '</del>	1./	0.00	SUB-TOTAL	11.12	66.04	734.09
17		CARRIAGE OF MATERIALS (including C.P.				<b>i</b>			34.44	
		10%)		<u> </u>	<u> </u>	<u> </u>				
	а	Bricks (1K+ 7P = 8 KM.)	1000 nos					5545.11	741.20	4110.03
	b	Sand - 10 km	CUM					18.92	169.20	3200.55
	С	Chips - 22 km	CUM					16.86	290.16	4893.06
	С	Metal - 22 km.	CUM					1.99	309.56	615.01
							ļ			= a= a · c ·=
						<u> </u>			Sub Total	5,35,240.17
ļ									Add GST 18%	96,343.23
				L	L	<u> </u>		- الملم ٨	Sub Total bour Cess 1%	<b>6,31,583.40</b> 6,315.83
								Aug La	Sub Total	6,37,899.24
					۸ ۸ ۸	rchitoct's	Eee (Dosian C	`oneultanay C	Charge) 1.25%	7,973.74
					Add A	ionilects I	ee (Design C	onsultaticy C	narge) 1.25%	6,45,872.98
									TOTAL	U, TU, U1 Z. 30
		<u> </u>			1	l .				
					Cost of c	onsturcti	on for Bound	ary wall for	30 M lenath	6,45,872.98
									running feet	6,563.75
						Total len	gth of Bound	lary wall (in	running feet)	2,025.00
									oundary wall	1,32,91,593.27
									Say	1,32,91,593.00
		Rupees one crore, thirt	tv two Lac	s. Ninet	v one th	ousand	. five hund	red ninetv	three only.	
				,,						

		MA	TERIALS S	TATEMEN	IT OF B. \	<u>W</u>				
	ITEM OF WOR QUANITITY		CEMENT		SAND		CHIPS		BRICKS	
		in M3/M2	RATE	QTY.	RATE	QTY	RATE	QTY	RATE	QTY
1	SAND FILLING				1.00	2.73		0.00		(
2	PCC 1;3:6	2.11	0.157	0.33	0.471	1.00	0.94	1.99		(
3	250MM BRICK	13.66	0.036	0.49	0.219	2.99		0.00	406	5545
4	112MM BRICK	0.00	0.01	0.00	0.04	0.00		0.00	52	(
5	RCC (1:1.5:3	19.38	0.29	5.62	0.435	8.43	0.87	16.86		
6	D.P.C.	0.00	0.225	0.00	0.45	0.00	0.90	0.00		
8	GLAZED TILES	0.00	0.0039	0.00	0.0092	0.00		0.00		
9	VITRIFIED TILE	0.00	0.035	0.00	0.0085	0.00		0.00		
10	GRANITE/MAR	0.00	0.0041	0.00	0.014	0.00		0.00		
11	W.P. OVER TE	0.00	0.0039	0.00	0.0092	0.00		0.00		
12	12MM CEMENT	0.00	0.0026	0.00	0.016	0.00		0.00		
13	6MM CEMENT	0.00	0.0019	0.00	0.0073	0.00		0.00		
14	WATER PROO	129.49	0.0074	0.96	0.0291	3.77		0.00		
16	PLINTH PROTE	0.00	0.0161	0.00	0.064	0.00	0.04	0.00	54	(
				7.40		18.92		18.85		5545
			209	BAGS			Metal	1.99		
		-	10.45	MT.	18.92	М3	Chips	16.86	5545.11	Nos.