

DETAILED PROJECT REPORT
FOR
PROPOSED Muktidham, Nagar Panchay at
SARGAON DIST. - MUNGELI, (C.G.)

PROJECT COST - RS. 272.01 Lakhs

PREPARED BY : PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANT & REGD. VALUERS
25, SOUTH AVENUE, CHOUBEY COLONY, RAIPUR (C.G.).
Email : manishpilliwar@yahoo.com, Mo. 09425209760

REPORT & SPECIFICATION

INDEX

S.No.	Particulars
1	GENERAL ABSTRACT
2	REPORT & SPECIFICATION
3	DETAILED ESTIMATE
4	DETAILED DRAWING

ABSTRACT

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAY AT SARGAON DIST. - BILASPUR, (C.G.)

"REPORT & SPECIFICATION"

S. No.	PARTICULARS	SPECIFICATION
1	CREMATORIUM ALONG WITH CHABUTRA (2 NOS.)	
a	Foundation & Super Structure	R.C.C.framed structure including Box footing, column, Beam (All M-20).
b	Filling	Crushed Stone Dust of Sand/Moorum.
c	P.C.C.	100 mm thick (P.C.C. M-10).
d	Masonry	Fly-ash lime bricks in cement mortar 1:6.
e	Plastering	15 mm thick cement Plaster in outer wall and 6mm thick cement plaster in cement mortar 1:4 on ceiling area and R.C.C. Column.
f	Flooring	Crematorium, Chabutra 50 mm thick Cement concrete flooring.
g	Painting	Crematorium, Chabutra White washing, 2mm thick ready mix exterior grade putty, ACRYLIC SMOOTH exterior paint.
2	WAITING HALL (2 NOS.)	
a	Foundation & Super Structure	R.C.C.framed structure including Box footing, column, Beam (All M-20).
b	Filling	Crushed Stone Dust of Sand/Moorum.
c	P.C.C.	100 mm thick (P.C.C. M-10).
d	Masonry	Fly-ash lime bricks in cement mortar 1:6.
e	Plastering	15 mm thick cement Plaster in outer wall and 6mm thick cement plaster in cement mortar 1:4 on ceiling area and R.C.C. Column.
f	Flooring	50 mm thick Cement concrete flooring.
g	Painting	White washing, 2mm thick ready mix exterior grade putty, ACRYLIC SMOOTH exterior paint.
3	STAFF QUARTER	
a	Foundation & Super Structure	R.C.C.framed structure including Box footing, column, Beam (All M-20).
b	Filling	Crushed Stone Dust of Sand/Moorum.
c	P.C.C.	100 mm thick (P.C.C. M-10).
d	Masonry	Fly-ash lime bricks in cement mortar 1:6.
e	Plastering	15 mm thick cement Plaster in outer wall, 12 mm thick cement Plaster in outer wall and 6mm thick cement plaster in cement mortar 1:4 on ceiling area.
f	Joinery	Door Frame cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets Door Shutter 35 mm Thick decorative type Flush door shutters. Window Grill M.S. grill Window Frame Aluminium work for windows and partitions, glazing.
g	Flooring	Floor vitrified floor tiles with double charge Toilet Area Ceramic glazed floor tiles, ceramic glazed wall tiles. Steps KOTA stone
h	Painting	White washing, 2mm thick ready mix exterior grade putty, ACRYLIC SMOOTH exterior paint.
4	WOOD STORAGE ROOM	
a	Foundation & Super Structure	R.C.C.framed structure including Box footing, column, Beam (All M-20).
b	Filling	Crushed Stone Dust of Sand/Moorum.
c	P.C.C.	100 mm thick (P.C.C. M-10).

S. No.	PARTICULARS	SPECIFICATION
d	Masonry	Fly-ash lime bricks in cement mortar 1:6.
e	Plastering	15 mm thick cement Plaster in outer wall, 12 mm thick cement Plaster in outer wall and 6mm thick cement plaster in cement mortar 1:4 on ceiling area.
f	Joinery	Door Frame cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets. Door Shutter 35 mm Thick decorative type Flush door shutters. Window Grill M.S. grill. Window Frame Aluminium work for windows and partitions, glazing.
g	Flooring	Wood Storage Room KOTA stone.
h	Painting	Steps KOTA stone slab 25mm thick in risers and treads of steps. White washing, 2mm thick ready mix exterior grade putty, inner wall acrylic luxury emulsion (plastic) paint, ACRYLIC SMOOTH exterior paint, acrylic luxury emulsion

5 OPEN BATH AREA

a	Foundation & Super Structure	R.C.C. framed structure including Box footing, column, Beam (All M-20).
b	Filling	Crushed Stone Dust of Sand/Moorum.
c	P.C.C.	100 mm thick (P.C.C. M-10).
d	Masonry	Fly-ash lime bricks in cement mortar 1:6.
e	Plastering	15 mm thick cement Plaster in outer wall.
f	Flooring	Ceramic glazed floor tiles, ceramic glazed wall tiles.
g	Painting	White washing, ACRYLIC SMOOTH exterior paint, acrylic luxury emulsion.

6 TOILET BLOCK

a	Foundation & Super Structure	R.C.C. framed structure including Box footing, column, Beam (All M-20).
b	Filling	Crushed Stone Dust of Sand/Moorum.
c	P.C.C.	100 mm thick (P.C.C. M-10).
d	Masonry	Fly-ash lime bricks in cement mortar 1:6.
e	Plastering	15 mm thick cement Plaster in outer wall, 12 mm thick cement Plaster in outer wall and 6mm thick cement plaster in cement mortar 1:4 on ceiling area.
f	Joinery	Door Frame cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets. Door Shutter 35 mm Thick decorative type Flush door shutters. Window Grill M.S. grill Window Frame Aluminium work for windows and partitions, glazing.
g	Flooring	Toilet Area Ceramic glazed floor tiles, ceramic glazed wall tiles. Steps KOTA stone
h	Painting	White washing, cement primer, 2mm thick ready mix exterior grade putty, ACRYLIC SMOOTH exterior paint.

B) INFRASTRUCTURE WORKS-**7 C.C. ROAD**

a	G.S.B.	200 mm thick.
b	W.M.M.	150 mm thick.
c	D.L.C.	100 mm thick.
d	C.C. Pavement	150 mm thick.

8 PATHWAY AND PAVED AREA

S. No.	PARTICULARS	SPECIFICATION
a	Granular Sub base-	150 mm 200 mm thick
b		P.C.C 150 mm thick
c		Paver- 80 mm thick Plain precast interlock concrete block
	kerb stone	400mmx259mmx200mm thick made of M-20 concrete rectangular in shape
9	LANDSCAPING WORK	
a		Soil filling- 300 mm thick.
b		Cow dung manure- 100 mm thick.
c	Planting-	wasingtonia, filipheria/bismarkia novelist plum plants, Ficus prestige/Blackiana plants, Bogenbelia dwarf, chandni dwarf, kaner dwarf vt flower bearing plants Carpet Grass.
10	EXTERNAL ELECTRIFICATION	
a	Pole-	6 m Ht. octagonal pole.
b	LED lamp-	60 watt.
c	pole bracket	Single Over Hang 1.00 m metre Long
d	Earthing	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia.
11	BOREWELL WITH PUMP	
a	Casin Pipe-	200 mm Dia.
b	Pump-	3.0 HP, three phase
c	PVC pipe-	150 mm dia.
d	Cable	3-3x4.0 sqmm
12	EXTERNAL WATER SUPPLY PIPE LINE	
a	G.I. pipes	50,80 mm dia. nominal bore
b	Gun metal gate valve	80 mm dia. nominal bore
d	Chamber	Chamber 60x60x75 cm, inside with modular well burnt clay bricks.
13	BOUNDARY WALL - 1110.00 RMT	
a	Foundation & Super Structure	R.C.C.framed structure including Box footing, column, Beam (All M-20).
b	Filling	Crushed Stone Dust of Sand/Moorum.
c	P.C.C.	100 mm thick (P.C.C. M-10).
d	Masonry	Fly-ash lime bricks in cement mortar 1:6.
e	Plastering	15 mm thick cement Plaster in outer wall
14	LANDSCAPING	
a	Good earth	250 mm Thick
b	Cow dung	100 mm Thick
c	Plants	chandni, Champa, Hedges like Alife,Darenta,Tikoma, Furn like arrica, Rose, Carpet Grass (Well developed).
15	RAIN WATER HARVESTING PIT (3.00X3.00X3.00)	
a		Brickwork- Fly ash Lime Brick in 1:6 mortar

S. No.	PARTICULARS	SPECIFICATION
b	Filter Media-	Stone boulders of size range 5 cm to 20 cm, in recharge pit Gravels of size range 5 mm to 10 mm, over the existing layer of boulders Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel
c	Pipeline-	150 mm stone ware (S.W.) pipes
16 UNDERGROUND SUMPWELL (4.00x3.00x1.80 M)		
a	Structure	RCC M-20
b	P.C.C.	150 mm thick (P.C.C. M-10).
c	Soak pit	4.00x3.00x1.80m
d	Brickwork	Fly ash lime brick (in mortar 1:6)
e	Manhole-	Precast RCC Manhole 450x600 mm
f	Pump	4 HP
17 SEPTIC TANK 3.00X1.50X1.55 M		
a	Structure	RCC M-20
b	P.C.C.	150 mm thick (P.C.C. M-10).
c	Soak pit	3.00x1.50x1.55m.
d	Flooring	25mm thick 1:2:4 Cement Concrete.
e	Manhole-	Precast RCC Manhole 450x600 mm
Notes Adopted :-		
i	The Rates adopted for estimate are referred from the SOR for Building Works with effect from 01-01-2015 issued by Engineer-in-Chief PWD, Raipur (C.G.).	
ii	The Rates adopted for estimate are referred from the SOR for Road Work P.W.D. Chhattisgarh with effect from 01-01-2015 issued by Engineer-in-Chief P.W.D. Raipur (C.G.)	
iii	The Rates adopted for estimate are referred from the SOR for Electrical Work P.W.D. Chhattisgarh with effect from 01-01-2015 issued by Engineer-in-Chief P.W.D. Raipur (C.G.)	

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सरगांव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सरगांव
जिला-मुंगेली (छ.ग.)

Pilliwar
PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036748

DETAILED ESTIMATE

DETAILED ESTIMATE FOR PROPOSED Muktidham, Nagar Panchayat at Sargaon Dist. - Bilaspur, (C.G.)

" SURFACE DRESSING "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/height including disposal of rubbish upto 1.5 m lift and lead upto 50 m (at least 5m away from the dressed area).								
	(BUILDING SOR ITEM NO.-1.2/9)								
		1	26300.00	SQM.	-	26300.00			
						26300.00	SQ.M	7.20	189360.00
Total Rs.									189360.00
Or say Rs.									189000.00
(Rs. One Lakhs Eighty Nine Thousand Only)									

मुख्य नगर पालिका अधिकारी
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

Saxu
PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255746, 4036748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM,NAGAR PANCHAY AT SARGAON DIST. - BILASPUR, (C.G.)

" CREMATORIUM ALONG WITH CHABUTRA (2 NOS.) "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1 In all types of soil								
	(BUILDING SOR ITEM NO.-1.1.1/9)								
		F1	12	1.20	1.20	2.40	41.47		
		F2	8	1.50	1.50	2.40	43.20		
						84.67	CUM	183.00	15664.32
2	Extra for every additional lift of 1.5M or part there of 1.6.1 All types of soil								
	(BUILDING SOR ITEM NO.-1.6.1/10)								
		F1	12	1.20	1.20	0.90	15.55		
		F2	8	1.50	1.50	0.90	16.20		
						31.75	CUM	26.50	841.43
3	Extra rate for every 50 mt. average lead upto 150 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift. 1.9.1 For soil								
	(BUILDING SOR ITEM NO.-1.9.1/10)								
		Item No. (1.1.1) - Item No.(1.17)				18.99	CUM	33.00	626.72
4	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M.								
	(BUILDING SOR ITEM NO.1.17/11)								
		F1	12	1.20	1.20	2.40	41.47		
		F2	8	1.50	1.50	2.40	43.20		
	Deduction- Sand cushion, pcc,footing,column up to GL					-18.99			
						65.68	CUM	65.00	4269.23
5	Providing and filling in plinth with sand /crusher dust and hard meorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
	(BUILDING SOR. ITEM NO.-1.18/11)								
		F1	12	1.20	1.20	0.15	2.59		
		F2	8	1.50	1.50	0.15	2.70		
		Crematorium-	1	90.00	SQM.	0.30	27.00		
		Chabutra-	1	2.70	1.70	0.30	1.38		
						33.67	CUM	371.00	12491.20
6	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	(BUILDING SOR. ITEM NO.- 3.1.3/23)								
		F1	12	1.20	1.20	0.10	1.73		
		F2	8	1.50	1.50	0.10	1.80		
		Crematorium-	1	90.00	SQM.	0.10	9.00		
		Chabutra-	1	2.70	1.70	0.10	0.46		
		Front Steps -	4	1.80	0.15	0.10	0.11		
						13.10	CUM	2970.00	38892.15
7	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	(BUILDING SOR ITEM NO.- 3.2/23)								

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	Footings-								
	F1	12	0.90	0.90	0.30	2.92			
	F2	8	1.20	1.20	0.40	4.61			
	Column upto Ground level								
	C1	12	0.25	0.25	1.85	1.39			
	C2	8	0.30	0.30	1.75	1.26			
	Column upto Plinth level								
	C1	12	0.25	0.25	0.30	0.23			
	C2	8	0.30	0.30	0.30	0.22			
	Ground Beam								
	Crematorium								
	GB1	8	2.65	0.20	0.30	1.27			
	GB1	8	4.20	0.20	0.30	2.02			
	GB1	8	2.00	0.20	0.30	0.96			
	Chabutra								
	GB1	2	2.74	0.20	0.30	0.33			
	GB1	2	1.72	0.20	0.30	0.21			
	SUPERSTRUCTURE				(A)	15.40			
	Column upto Slab level-								
	C1	12	0.25	0.25	3.30	2.48			
	C2	8	0.30	0.30	5.00	3.60			
	Slab Beam								
	Crematorium								
	SB1	8	2.65	0.20	0.30	1.27			
	SB1	8	4.20	0.20	0.30	2.02			
	Chabutra								
	SB1	2	2.74	0.20	0.30	0.33			
	SB1	2	1.72	0.20	0.30	0.21			
	Indiend Beam	8	6.35	0.20	0.40	4.06			
	Crematorium Slab	1	113.90	SQ.Mt.	0.125	14.24			
	Chabutra Slab	1	13.50	SQ.Mt.	0.125	1.69			
					(B)	29.89			
					(A+B)	45.28	CUM	4163.00	188512.71
8	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	(BUILDING SOR. ITEM NO.-3.4/23)	-	-	-	-	29.89	CUM	97.50	2914.00
9	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete. Thermo-Mechanically treated bars FE 415								
	(BUILDING SOR. ITEM NO.-3.12.1/24)								
					Quantity as per item 3.3	45.28			
					<u>110kg/cum</u>	4981.12	KG	54.50	271470.99
10	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	(BUILDING SOR ITEM NO.-2.1.1/16)								
	Footings-								
	F1	12x4	0.90	-	0.30	12.96			
	F2	8x4	1.20	-	0.40	15.36			
	Column upto Ground level & Column upto Plinth level								
	C1	12x4	0.25	-	2.15	25.80			
	C2	8x4	0.30	-	2.05	19.68			
	Ground Beam								
	Crematorium								
	GB1	8x2	2.65	-	0.30	12.72			
	GB1	8x2	4.20	-	0.30	20.16			
	GB1	8x2	2.00	-	0.30	9.60			
	Chabutra								
	GB1	2X2	2.74	-	0.30	3.29			
	GB1	2X2	1.72	-	0.30	2.06			
						121.63	SQ.M	139.00	16906.85
	Beams, lintels, Cantilevers & Walls.								

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	(BUILDING SOR ITEM NO.- 2.1.8/16)								
	Slab Beam								
	Crematorium								
	SB1	8	2.65	0.20		4.24			
		8x2	2.65	-	0.30	12.72			
	SB1	8	4.20	0.20		6.72			
		8x2	4.20	-	0.30	20.16			
	Chabutra								
	SB1	4	2.74	0.20	-	2.19			
		4x2	2.740		0.30	6.58			
	SB1	8	1.72	-	-	13.76			
		8x2	1.720		0.30	8.26			
		8	6.35	0.20	-	10.16			
	Indiend Beam								
		8x2	6.35		0.40	40.64			
						125.42	SQ.M	202.00	25335.65
	Columns, Pillars, Piers and likes- rectangular or square in shape								
	(BUILDING SOR ITEM NO.- 2.1.5/16)								
	Column upto Slab level								
	C1	12x4	0.25	-	3.30	39.60			
	C2	8x4	0.30	-	5.00	48.00			
						87.60	SQ.M	297.00	26017.20
	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
	(BUILDING SOR ITEM NO.- 2.1.7/16)								
	Crematorium Slab	1	113.90	SQ.Mt.	-	113.90			
	Chabutra Slab	1	13.50	SQ.Mt.	-	13.50			
	Sides	1	39.80	-	0.15	5.97			
						133.37	SQ.M	235.00	31341.95
11	Brick work with modular fly-ash lime bricks (FALG Bricks) conforming to IS:12894-2002 of class designation 40 in foundation and plinth in 7.5:4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	(BUILDING SOR ITEM NO.- 7.5.4/45)								
	Below Ground Beam	1	63.72	0.30	0.10	1.91			
	In Plinth	1	63.72	0.20	0.30	3.82			
	Front Steps	1	1.80	0.60	0.15	0.16			
		1	1.80	0.30	0.15	0.08			
						5.98	CUM	3263.00	19505.56
12	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.								
	(BUILDING SOR ITEM NO.- 3.13/24)	1	63.72	0.20	0.05	0.64	CUM	4237.00	2699.82
13	Providing and making 6 mm thick cement plaster of mix in Cement mortar 1:4 (1 cement : 4 fine sand)								
	(BUILDING SOR. ITEM NO.-11.1/103)								
	Crematorium Slab	1	113.90	SQ.Mt.	-	113.90			
	Chabutra Slab	1	13.50	SQ.Mt.	-	13.50			
	Sides	1	39.80	-	0.15	5.97			
	Column upto Slab level								
	C1	12	0.80	-	3.30	31.68			
	C2	8	1.20	-	5.00	48.00			
						213.05	SQ.M	87.00	18535.35
14	Providing and making 15mm.thick cement plaster on the rough side of single or half brickwall of mix. 1:1.3:4.) In Cement Mortar 1:6 (1 cement : 6 fine sand)								
	(BUILDING SOR. ITEM NO.-11.3/103)								
	In Plinth	1	63.72	-	0.30	19.12			
						19.12	SQ.M	107.00	2045.41
15	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement, 12.3.2- 50 mm thick								
	Crematorium	1	90.00	SQM.	0.30	27.00			
	Chabutra	1	2.70	1.70	0.30	1.38			

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	Front Steps -	4	1.80	0.15	-	1.08			
	(BUILDING SOR ITEM NO.12.3.2/111)					29.46	SQ.M	254.00	7482.08
16	14.5 White washing with lime to give an even shade. 14.5.1 On new work (Three or more coats)								
	(BUILDING SOR ITEM NO.-14.5.1/132)	-	-	-	-	232.17	SQ.M	9.40	2182.36
17	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even. As per inner, outer plastering								
	(BUILDING SOR ITEM NO.-14.13/133)	-	-	-	-	232.17	SQ.M	94.50	21939.69
18	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.15.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 SQ.M over and including priming coat of exterior primer applied @ 2.20 kg/ 10 SQ.M)								
	(BUILDING SOR ITEM NO.-14.15.1/133)	-	-	-	-	232.17	SQ.M	56.00	13001.30
(For One Nos.) Total Rs.									723676.00
(For Two Nos.) Total Rs.									1445352.00
Or say Rs.									1445000.00
(Rs. Thirteen Lakhs Ninety Seven Thousand Only)									

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सर्गांव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सर्गांव
जिला-मुंगेली (छ.ग.)


PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUDEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255740, 4036740

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAY AT SARGAON DIST. - BILASPUR, (C.G.)

" WAITING HALL (2 NOS.) "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 30m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil (BUILDING SOR ITEM NO.-1.1.1/9)	F1 10	1.50	1.50	2.40	54.00			
						54.00	CUM	185.00	9990.00
2	Extra for every additional lift of 1.5M or part there of 1.6.1 All types of soil (BUILDING SOR ITEM NO.-1.6.1/10)	F1 10	1.50	1.50	0.90	20.25			
						20.25	CUM	26.50	536.63
3	Extra rate for every 50 mt. average lead upto 150 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift. 1.9.1 For soil (BUILDING SOR ITEM NO.-1.9.1/10)								
		Item No. (1.1.1) - Item No.(1.17)				14.04	CUM	33.00	463.32
4	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M. (BUILDING SOR ITEM NO.1.17/11)	F1 10	1.50	1.50	2.40	54.00			
	Deduction- Sand cushion, pcc, footing, column up to GL					-14.04			
						39.96	CUM	65.00	2597.40
5	Providing and filling in plinth with sand /crusher dust and hard medium under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete. (BUILDING SOR. ITEM NO.-1.18/11)	F1 10	1.50	1.50	0.15	3.38			
	Waiting Shed-	1	12.60	6.60	0.80	66.53			
						69.90	CUM	371.00	25934.01
6	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size). (BUILDING SOR. ITEM NO.- 3.1.3/23)	F1 10	1.50	1.50	0.15	3.38			
	Waiting Shed-	1	12.60	6.60	0.10	8.32			
	Front Steps -	12	1.50	0.15	0.10	0.27			
						11.96	CUM	2970.00	35524.17
7	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size). (BUILDING SOR ITEM NO.- 3.2/23)								
	Footing-								
	F1 10	1.20	1.20	0.40	5.76				
	Column upto Ground level	C1 10	0.30	0.30	1.70	1.53			
	Column upto Plinth level	C1 10	0.30	0.30	0.60	0.54			
	Ground Beam								
	X-Direction								
	G81 6	3.70	0.20	0.30	1.33				
	G81 3	3.95	0.20	0.30	0.71				
	Y-Direction								
	G81 8	2.83	0.20	0.20	0.91				

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	SUPERSTRUCTURE				(A)	10.78			
	Column upto Slab level-								
	C1	10	0.30	0.30	3.30	2.97			
	Slab Beam								
	X-Direction								
	SB1	6	3.70	0.20	0.30	1.33			
	SB1	3	3.95	0.20	0.30	0.71			
	Y-Direction								
	SB1	8	2.83	0.20	0.30	1.36			
	Slab	1	13.75	7.75	0.125	13.32			
					(B)	19.69			
					(A+B)	30.47	CUM	4163.00	126847.91
8	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth.								
	(BUILDING SOR. ITEM NO.-3.4/23)	-	-	-	-	19.69	CUM	97.50	1919.94
9	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars FE 415								
	(BUILDING SOR. ITEM NO.-3.12.1/24)								
					Quantity as per item 3.3	30.47			
					110kg/cum	3351.73	KG	54.50	182669.52
10	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	(BUILDING SOR ITEM NO.- 2.1.1/10)								
	Footings-								
	F1	10x4	1.20	-	0.40	23.04			
	Column upto Ground level & Column upto Plinth level								
	C1	10x4	0.30	-	2.30	33.12			
	Ground Beam								
	X-Direction								
	GB1	6X2	3.70	-	0.30	13.32			
	GB1	3X2	3.95	-	0.30	7.11			
	Y-Direction								
	GB1	8X2	2.83	-	0.20	9.06			
						85.65	SQ.M	139.00	11904.79
	Beams, lintels, Cantilevers & Walls.								
	(BUILDING SOR ITEM NO.- 2.1.8/16)								
	Slab Beam								
	X-Direction								
	SB1	6	3.70	0.20		4.44			
		6x2	3.70	-	0.30	13.32			
	SB1	3	3.95	0.20		2.37			
		3x2	3.95	-	0.30	7.11			
	Y-Direction								
	SB1	4	2.83	0.20	-	2.26			
		4X2	2.830	-	0.30	6.79			
						36.30	SQ.M	202.00	7331.79
	Columns, Pillars, Piers and likes- rectangular or square in shape								
	(BUILDING SOR ITEM NO.- 2.1.5/16)								
	Column upto Slab level								
	C1	10x4	0.30	-	3.30	19.80			
						19.80	SQ.M	297.00	5880.60
	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
	(BUILDING SOR ITEM NO.- 2.1.7/16)								
	Slab	1	13.75	7.75	-	106.56			
	Sides	1	43.00	-	0.15	6.45			
						113.01	SQ.M	235.00	26557.94
11	Brick work with modular fly-ash lime bricks (FALG Bricks) conforming to IS:12894-2002 of class designation 40 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	(BUILDING SOR ITEM NO.- 7.5.4/45)								
	Below Ground Beam	1	56.69	0.30	0.10	1.70			
	In Plinth-	1	56.69	0.20	0.50	5.67			

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
	Steps	1	1.50	1.20	0.15	0.27			
		1	1.50	0.90	0.15	0.20			
		1	1.50	0.60	0.15	0.14			
		1	1.50	0.30	0.15	0.07			
						8.04	CUM	3263.00	26249.86
12	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.								
	(BUILDING SOR ITEM NO.- 3.13/24)	1	56.69	0.20	0.05	0.57	CUM	4237.00	2401.96
13	Providing and making 6 mm thick cement plaster of mix in Cement mortar 1:4 (1 cement : 4 fine sand)								
	(BUILDING SOR ITEM NO.-11.1/103)								
	Slab	1	13.75	7.75	-	106.56			
	Sides	1	43.00	-	0.15	6.45			
						113.01	SQ.M	87.00	9832.09
14	Providing and making 15mm.thick cement plaster on the rough side of single or half brickwall of mix. 1:1.3:4. In Cement Mortar 1:6 (1 cement : 6 fine sand)								
	(BUILDING SOR ITEM NO.-11.3/103)								
	In Plinth	1	38.40	-	0.60	23.04			
						23.04	SQ.M	107.00	2465.28
15	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a smooth coat of neat cement. 1:3:3- 50 mm thick								
	Waiting Shed	1	12.60	6.60	0.80	66.53			
	Front Steps	12	1.50	0.15	-	2.70			
	(BUILDING SOR ITEM NO.12.3.2/111)					69.23	SQ.M	254.00	17583.91
16	14.5 White washing with lime to give an even shade. 14.5.1 On new work (Three or more coats)								
	(BUILDING SOR ITEM NO.-14.5.1/132)	-	-	-	-	136.05	SQ.M	9.40	1278.89
17	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Altek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even. As per inner, outer plastering								
	(BUILDING SOR ITEM NO.-14.13/133)	-	-	-	-	136.05	SQ.M	94.50	12856.96
18	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.15.1 On new work (Two or more coats applied @ 1.43 lit/ 10 SQ.M over and including priming coat of exterior primer applied @ 2.20 kg/ 10 SQ.M)								
	(BUILDING SOR ITEM NO.-14.15.1/133)	-	-	-	-	136.05	SQ.M	56.00	7618.94
(For One Nos.) Total Rs.									518446.00
(For Two Nos.) Total Rs.									1036892.00
Or any Rs.									1037000.00
(Rs. Ten Lakhs Thirty Seven Thousand Only)									

PILLIWAR & ASSOCIATES
 ENGINEERS, ARCHITECTS, PLANNERS,
 GIS-CONSULTANTS,
 & GOVT. APPROVED VALUERS,
 25, SOUTH AVENUE, CHOUSEY COLONY,
 RAIPUR (C.G.) ☎ (0771) 2255740, 4036748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAY AT SARGAON DIST. - BILASPUR, (C.G.)

" STAFF QUARTER "									
S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil								
	(BUILDING SOR ITEM NO.-1.1.1/9)					42.12			
		F1	9	1.30	1.50	2.40		185.00	7792.20
						42.12	CUM		
2	Extra for every additional lift of 1.5M or part there of 1.6.1 All types of soil								
	(BUILDING SOR ITEM NO.-1.6.1/10)					15.80			
		F1	9	1.30	1.50	0.90		26.30	418.57
						15.80	CUM		
3	Extra rate for every 50 mt. average lead upto 150 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift. 1.9.1 For soil								
	(BUILDING SOR ITEM NO.-1.9.1/10)								
						9.48	CUM	33.00	312.74
						Item No. (1.1.1) - Item No.(1.17)			
4	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M.								
	(BUILDING SOR ITEM NO.1.17/11)					42.12			
		F1	9	1.30	1.50	2.40			
						-9.48			
	Deduction- Sand cushion, pcc, footing, column up to GL					32.64	CUM	65.00	2121.80
5	Providing and filling in plinth with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
	(BUILDING SOR. ITEM NO.-1.18/11)					2.63			
		F1	9	1.30	1.50	0.15			
						12.60			
	Staff Quarter-	1	6.00	6.00	0.35				
						15.23	CUM	371.00	5651.26
6	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	(BUILDING SOR. ITEM NO.- 3.1.3/23)					2.63			
		F1	9	1.30	1.50	0.15			
						3.60			
	Staff Quarter-	1	6.00	6.00	0.10				
	Front Steps -	3	1.50	0.15	0.10				
						6.30	CUM	2970.00	18711.00
7	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	(BUILDING SOR ITEM NO.- 3.2/23)								
	Footing-								
		F1	9	1.00	1.20	0.30			
	Column upto Ground level								
		C1	9	0.20	0.30	1.80			
	Column upto Plinth level								
		C1	9	0.20	0.30	0.45			
	Ground Beam								
	X-Direction								
		GB1	3	3.00	0.20	0.30			

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	GB1	3	2.80	0.20	0.30	0.50			
	Y-Direction								
	GB1	3	2.70	0.20	0.30	0.49			
	GB2	3	2.80	0.20	0.30	0.50			
	SUPERSTRUCTURE				(A)	6.49			
	Column upto Slab level-								
	C1	9	0.20	0.30	3.30	1.78			
	Slab Beam								
	X-Direction								
	SB1	3	3.00	0.20	0.30	0.54			
	SB1	3	2.80	0.20	0.30	0.50			
	Y-Direction								
	SB1	3	2.70	0.20	0.30	0.49			
	Slab	1	6.60	6.60	0.125	5.45			
					(B)	8.76			
					(A+B)	15.25	CUM	4163.00	63469.10
8	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	(BUILDING SOR. ITEM NO.-3.4/23)	-	-	-	-	8.76	CUM	97.50	853.81
9	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars FE 415								
	(BUILDING SOR. ITEM NO.-3.12.1/24)								
	Quantity as per Item 3.3					15.25			
	110kg/cum					1677.06	KG	54.50	91399.77
10	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	(BUILDING SOR ITEM NO.- 2.1.1/16)								
	Footings-								
	F1	9x4	1.00	-	0.30	10.80			
	Column upto Ground level & Column upto Plinth level								
	C1	9x4	0.20	-	2.25	16.20			
	Ground Beam								
	X-Direction								
	GB1	6X2	3.00	-	0.30	10.80			
	GB1	3X2	2.80	-	0.30	5.04			
	Y-Direction								
	GB1	8X2	2.70	-	0.30	12.96			
						55.80	SQ.M	139.00	7756.20
	Beams, lintels, Cantilevers & Walls.								
	(BUILDING SOR ITEM NO.- 2.1.8/16)								
	Slab Beam								
	X-Direction								
	SB1	3	3.00	0.20		1.80			
		3x2	3.00	-	0.30	5.40			
	SB1	3	2.80	0.20		1.68			
		3x2	2.80	-	0.30	5.04			
	Y-Direction								
	SB1	4	2.70	0.20	-	2.16			
		4X2	2.700	-	0.30	6.48			
						22.56	SQ.M	202.00	4557.12
	Columns, Pillars, Piers and likes- rectangular or square in shape								
	(BUILDING SOR ITEM NO.- 2.1.5/16)								
	Column upto Slab level								
	C1	9x4	0.20	-	3.30	11.88			
						11.88	SQ.M	297.00	3528.36
	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
	(BUILDING SOR ITEM NO.- 2.1.7/16)								
	Slab	1	6.60	6.60	-	43.56			

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	Sides	1	26.40	-	0.15	3.96			
						47.52	SQ.M	235.00	11167.20
11	Brick work with modular fly-ash lime bricks (FALG Bricks) conforming to IS:12894-2002 of class designation 40 in foundation and plinth in 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	(BUILDING SOR ITEM NO.- 7.5.4/43)								
	Below Ground Beam	1	25.50	0.30	0.10	0.77			
	In Plinth-	1	25.50	0.20	0.50	2.55			
	Steps	1	1.50	1.20	0.15	0.27			
		1	1.50	0.90	0.15	0.20			
		1	1.50	0.60	0.15	0.14			
		1	1.50	0.30	0.15	0.07			
						3.99	CUM	3263.00	13019.37
	Extra for brick work in superstructure Above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	(BUILDING SOR. ITEM NO.- 7.6/45)								
	X-Direction	1	14.40	0.20	3.00	8.64			
	Y-Direction	1	18.00	0.20	3.00	10.80			
					(A)	19.44			
	Deduction								
	D1	2	0.90	0.20	2.10	0.76			
	D2	2	0.75	0.20	2.10	0.63			
	W1	2	1.50	0.20	1.20	0.72			
	V1	3	0.60	0.20	0.60	0.22			
					(B)	2.32		(3263+121)	
					(A-B)	17.12	CUM	3384.00	57927.31
12	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.								
	(BUILDING SOR ITEM NO.- 3.13/24)	1	25.50	0.20	0.05	0.26	CUM	4237.00	1080.44
13	Providing and making 6 mm thick cement plaster of mix in Cement mortar 1:4 (1 cement : 4 fine sand)								
	(BUILDING SOR. ITEM NO.-11.1/103)								
	Slab	1	6.60	6.6	-	43.56			
	Sides	1	26.40	-	0.15	3.96			
						47.52	SQ.M	87.00	4134.24
14	Providing and making 12mm.thick cement plaster of mix : in Cement Mortar 1:6 (1 Cement : 6 fine Sand)								
	(BUILDING SOR. ITEM NO.-11.2/103)								
	Room	1	11.60	-	3.00	34.80			
	Hall	1	18.00	-	3.00	54.00			
	Toilet	1	11.20	-	3.00	33.60			
						122.40	SQ.M	91.50	11199.60
15	Providing and making 15mm.thick cement plaster on the rough side of single or half brickwall of mix. 1:3:4. in Cement Mortar 1:6 (1 cement : 6 fine sand)								
	(BUILDING SOR. ITEM NO.-11.3/103)								
	Plinth To top	1	26.40	-	3.30	126.72			
						87.12+126.72	SQ.M	107.00	11359.04
	Deduction - D1	2	0.90	-	2.10	3.78			
	D2	2	0.75	-	2.10	3.15			
	W1	2	1.50	-	1.20	3.60			
	V1	3	0.60	-	0.60	1.08			
16	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S. 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.								
						114.17		91.50	8609
						80.46		107.00 =	

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	9.18.3 Single rebate/ mullion 100mmx50mm size, 1.25mm thick sheet.								
	(BUILDING SOR ITEM NO.-9.18/81)								
		D1	5.10	MTR	-	10.20			
		D2	4.95	MTR	-	9.90			
						20.10	METER	391.00	7859.10
						15.15		391	5923.65
17	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges. 8.12.2 35 mm. thick (single leaf)								
	(BUILDING SOR. ITEM NO.-8.12.2/56)								
		D1	2	0.90	-	2.10			
		D2	0.75	-	2.10	1.50			
						3.60	SQ.M	2005.00	7218.00
						2.55			5113.00
18	Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete: 8.79.2 250 x 16mm								
	(BUILDING SOR ITEM NO.8.79/64)								
						6	EACH	489.00	2934.00
19	Providing and fixing antique/ SS finished brass tower bolts (Barrel type) with antique/ SS polished MS screw complete: 250 x 10 mm								
	(BUILDING SOR ITEM NO.8.81/64)								
						4	EACH	297.00	1188.00
									891.00
20	Providing and fixing 150mm antique/ S.S. finished brass floor door stopper with rubber cushion and antique/ S.S. polished MS screws to suit the shutter thickness.								
	(BUILDING SOR ITEM NO.-8.90/65)								
						4	EACH	77.00	308.00
									231.00
21	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete: 125 mm								
	(BUILDING SOR ITEM NO.-8.84/65)								
						8	EACH	58.50	468.00
									351.00
22	Providing and fixing M.S. fan clamp/ hook for ceiling fan made out of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop.								
	(BUILDING SOR ITEM NO.9.37/84)								
						2	EACH	97.00	194.00
23	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
	(BUILDING SOR ITEM NO.-9.15/81)								
		W1	1.50	-	1.20	3.00			
		V1	0.60	-	0.60	1.80			
						4.80			
						25 KG / SQ.M			
						120.00	KG	67.50	8100.00
24	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (male section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing and panelling to be paid for separately)								

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	9.47.2) For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).								
	(BUILDING SOR ITEM NO.-9.47/85)								
	W1	2	1.50	-	1.20	3.00			
	V1	3	0.60	-	0.60	1.80			
						4.80			
						10 KG / SQ.M		48.00	16224.00
	For fixed portion								
	(BUILDING SOR ITEM NO.-9.47/85)					4.80			
						8 KG / SQ.M		38.40	12710.40
	9.48 Extra for powder coating (minimum 50 micron) on aluminium sections instead of red oxide zinc chromate primer								
	(BUILDING SOR ITEM NO.-9.48/85)					9.60	KG	27.00	259.20
25	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item). 9.51.1 With float glass panes of 4 mm thickness								
	(BUILDING SOR ITEM NO.-9.51/85)								
	W1	2	1.5	-	1.2	3.00			
	V1	3	0.6	-	0.6	1.80			
						4.80	SQ.M	617.00	2932.80
26	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete. 12.13.1) Size 600x600mm								
	Room	1	2.80	2.80	-	7.84			
	Hall	1	3.00	6.00	-	18.00			
	(BUILDING SOR ITEM NO.- 12.13/112)					-25.84	SQ.M	1151.00	-29741.84
						2876			33102.76
27	Providing and laying ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. 12.9.1) 300x300								
	(BUILDING SOR ITEM NO.- 12.9/112)								
	Toilet Area	1	2.80	2.80	-	7.84	SQ.M	692.00	5425.28
28	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry @ 3.3kg per SQ.M including pointing in white cement mixed with matching pigment complete. 12.7.1) Size upto 200x300mm								
	(BUILDING SOR ITEM NO.- 12.7.1/111)								
	Toilet Area	1	11.20	-	2.10	23.52			
	Deduction								
	D2	-1	0.75	-	2.10	-1.58			
						21.95	SQ.M	587.00	12881.72
29	KOTA stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 12mm (Average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone for								
	(BUILDING SOR ITEM NO.-12.50/118)								
	Tread	3	1.50	0.30	-	1.35			
	Riser	3	1.50	-	0.15	0.68			

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
30	14.5 White washing with lime to give an even shade. 14.5.1 On new work (Three or more coats) (BUILDING SOR ITEM NO.-14.5.1/132)	-	-	-	-	2.03 242.15 296.64	SQ.M	990.00 9.40	2004.75 2276.16 2788.42
31	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superline W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even. As per inner, outer plastering (BUILDING SOR ITEM NO.-14.13/133)	-	-	-	-	242.15 296.64	SQ.M	94.50	22882.70 28032.48
32	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1 On new work (Three or more coats) As per inner & Ceiling plastering (BUILDING SOR ITEM NO.-14.11.1/133)	-	-	-	-	161.69 169.92	SQ.M	52.50	8488.10 8921.00
33	Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 SQ.M) complete. As per inner, outer plastering (BUILDING SOR ITEM NO.-14.12/133)	-	-	-	-	242.15 296.64	SQ.M	23.00	5569.10 6823.00
34	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with: 14.15.1 On new work (Two or more coats applied @ 1.43 lt/10 SQ.M over and including priming coat of exterior primer applied @ 2.20 kg/10 SQ.M) (BUILDING SOR ITEM NO.-14.15.1/133)	-	-	-	-	80.46 126.72	SQ.M	56.00	4505.76 7096.32
								Total Rs.	463146.00
								Or say Rs.	463000.00
(Rs. Four Lakhs Eighty Three Thousand Only)									

Total Rs - 467022.00

मुख्य नगर प्राधिकारी
नगर पंचायत सर्गांव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सर्गांव
जिला-मुंगेली (छ.ग.)


PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUDEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255740, 4030748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAY AT SARGAON DIST. - BILASPUR, (C.G.)

" WOOD STORAGE ROOM "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil								
	(BUILDING SOR ITEM NO.-1.1.1/9)								
	F1	10	1.20	1.20	2.40	34.56			
						34.56	CUM	185.00	6393.60
2	Extra for every additional lift of 1.5M or part there of 1.6.1 All types of soil								
	(BUILDING SOR ITEM NO.-1.6.1/10)								
	F1	10	1.20	1.20	0.90	12.96			
						12.96	CUM	26.50	343.44
3	Extra rate for every 50 mt. average lead upto 150 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift. 1.9.1 For soil								
	(BUILDING SOR ITEM NO.-1.9.1/10)								
	Item No. (1.1.1) - Item No.(1.17)					7.47	CUM	33.00	246.51
4	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M.								
	(BUILDING SOR ITEM NO.1.17/11)								
	F1	10	1.20	1.20	2.40	34.56			
	Deduction- Sand cushion, pcc, footing, column up to GL					-7.47			
						27.09	CUM	65.00	1760.85
5	Providing and filling in plinth with sand /crusher dust and hard masonry under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
	(BUILDING SOR. ITEM NO.-1.18/11)								
	F1	10	1.20	1.20	0.15	2.16			
	Wood Storage Room-	1	10.00	5.00	0.35	17.50			
						19.66	CUM	371.00	7293.86
6	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	(BUILDING SOR. ITEM NO.- 3.1.3/23)								
	F1	10	1.20	1.20	0.15	2.16			
	Wood Storage Room-	1	10.00	5.00	0.10	5.00			
	Front Steps -	3	3.00	0.15	0.10	0.14			
						7.30	CUM	2970.00	21666.15
7	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	(BUILDING SOR ITEM NO.- 3.2/23)								
	Footing-								
	F1	10	0.90	0.90	0.30	2.43			
	Column upto Ground level								
	C1	10	0.20	0.20	1.80	0.72			
	Column upto Plinth level								
	C1	10	0.20	0.20	0.60	0.24			
	Ground Beam								
	X-Direction								
	GB1	2	3.00	0.20	0.30	0.36			

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	GB1	4	3.30	0.20	0.30	0.79			
	Y-Direction								
	GB1	2	5.00	0.20	0.30	0.60			
	GB1	4	2.40	0.20	0.30	0.58			
	SUPERSTRUCTURE				(A)	5.72			
	Column upto Slab level-								
	C1	10	0.20	0.20	3.00	1.20			
	Slab Beam								
	X-Direction								
	SB1	2	3.00	0.20	0.30	0.36			
	SB1	4	3.30	0.20	0.30	0.79			
	Y-Direction								
	SB1	2	5.00	0.20	0.30	0.60			
	SB1	4	2.40	0.20	0.30	0.58			
	Slab	1	10.40	5.40	0.125	7.02			
					(B)	10.55			
					(A+B)	16.27	CUM	4163.00	67713.36
8	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	(BUILDING SOR. ITEM NO.-3.4/23)	-	-	-	-	10.55	CUM	97.50	1028.43
9	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars FE 415								
	(BUILDING SOR. ITEM NO.-3.12.1/24)								
	Quantity as per Item 3.3					16.27			
	110kg/cum					1789.36	KG	54.50	97514.67
10	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	(BUILDING SOR ITEM NO.- 2.1.1/16)								
	Footings-								
	F1	10x4	0.90	-	0.30	10.80			
	Column upto Ground level & Column upto Plinth level								
	C1	10x4	0.20	-	2.40	19.20			
	Ground Beam								
	X-Direction								
	GB1	2X2	3.00	-	0.30	3.60			
	GB1	4x2	3.30	-	0.30	7.92			
	Y-Direction								
	GB1	2X2	5.00	-	0.30	6.00			
	GB1	4x2	2.40	-	0.30	5.76			
						53.28	SQ.M	139.00	7405.92
	Beams, lintels, Cantilevers & Walls.								
	(BUILDING SOR ITEM NO.- 2.1.8/16)								
	Slab Beam								
	X-Direction								
	SB1	2	3.00	0.20		1.20			
	6x2	3.00	-	0.30	10.80				
	Y-Direction								
	SB1	2	5.00	0.20	-	2.00			
	2X2	5.00	-	0.30	6.00				
	SB1	4	2.40	0.20	-	1.92			
	4x2	2.40	-	0.30	5.76				
						27.68	SQ.M	202.00	5591.36
	Columns, Pillars, Piers and likes- rectangular or square in shape								
	(BUILDING SOR ITEM NO.- 2.1.5/16)								
	Column upto Slab level								
	C1	10x4	0.20	-	3.00	12.00			
						12.00	SQ.M	297.00	3564.00

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
	(BUILDING SOR ITEM NO.- 2.1.7/16)								
	Slab	1	10.40	5.40	-	56.16			
	Sides	1	31.60	-	0.15	4.74			
						60.90	SQ.M	235.00	14311.50
11	Brick work with modular fly-ash lime bricks (FALG Bricks) conforming to IS: 12894-2002 of class designation 40 in foundation and plinth in 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	(BUILDING SOR ITEM NO.- 7.5.4/45)								
	Below Ground Beam	1	16.00	0.30	0.10	0.48			
	In Plinth-	1	16.00	0.20	0.50	1.60			
	Steps	1	3.00	1.80	0.15	0.81			
		1	3.00	1.50	0.15	0.68			
		1	3.00	1.20	0.15	0.54			
						4.11	CUM	3263.00	13394.62
	Extra for brick work in superstructure Above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	(BUILDING SOR. ITEM NO.- 7.6/45)		19.20			11.50			
	X-Direction	1	6.00	0.20	3.00	6.00			
	Y-Direction	1	10.00	0.20	3.00	6.00		5.76	
			9.60		(A)	9.60		17.28	
	Deduction								
	D1	1	3.00	0.20	2.10	1.26			
	W1	2	1.50	0.20	1.20	0.72			
					(B)	1.98		(3263+121)	
					(A-B)	7.62	CUM	3384.00	23756.08
						15.20			51775.20
12	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.		38.80			0.39			6643.96
	(BUILDING SOR ITEM NO.- 3.13/24)	1	46.00	0.20	0.05	0.16	CUM	4237.00	677.92
13	Providing and making 6 mm thick cement plaster of mix in Cement mortar 1:4 (1 cement : 4 fine sand)								
	(BUILDING SOR. ITEM NO.-11.1/103)								
	Slab	1	10.40	5.40	-	56.16			
	Sides	1	31.60	-	0.15	4.74			
						60.90	SQ.M	87.00	5298.30
14	Providing and making 12mm.thick cement plaster of mix : in Cement Mortar 1:6 (1 Cement : 6 fine Sand)								
	(BUILDING SOR. ITEM NO.-11.2/103)								
	Room	1	11.60	-	3.00	34.80			
	Hall	1	18.00	-	3.00	54.00			
	Toilet	1	11.20	-	3.00	33.60			
						122.40	SQ.M	91.50	11199.60
15	Providing and making 15mm.thick cement plaster on the rough side of single or half brickwall of mix. 1:1.3:4.) in Cement Mortar 1:6 (1 cement : 6 fine sand)								
	(BUILDING SOR. ITEM NO.-11.3/103)		33.60						
	Plinth To top	1	18.40	-	3.30	426.72			
						126.72	SQ.M	107.00	13559.04
						104.28			11157.96

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
16	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S. 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.								
	9.18.5 Double rebate 115mmx50mm size, 1.6mm thick sheet								
	(BUILDING SOR ITEM NO.-9.18.5/81)								
	D1	1	7.20	MTR	-	7.20			
						7.20	METER	528.00	3801.60
17	Providing and fixing steel door/window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer.								
	(BUILDING SOR ITEM NO.-9.13/81)								
	D1	1	3.00	-	2.10	3.00			
	W1	2	1.50	-	1.20	3.60			
						231.00	SQ.M	75.00	17325.00
18	Providing and fixing M.S. fan clamp/ hook for ceiling fan made out of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop.								
	(BUILDING SOR ITEM NO.9.37/84)	1	-	-	-	1	EACH	97.00	97.00
19	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
	(BUILDING SOR ITEM NO.-9.15/81)								
	W1	2	1.50	-	1.20	3.00			
						75.00	KG	67.50	5062.50
19	12.49 25 mm thick KOTA stone slab flooring over 20mm (Average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sqm and upto 0.50 sqm)								
	12.49 Wood Storage Room-	1	10.00	5.00	-	50.00			
	(BUILDING SOR ITEM NO.-12.12/112) (119)					50.00	SQ.M	897.00	44850.00
20	KOTA stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 12mm (Average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone for skirting and dado shall be equal to the breadth of skirting and dado)								
	(BUILDING SOR ITEM NO.-12.50/118)								
	Tread	2	3.00	0.30	-	1.80			
	Tread	1	3.00	1.20	-	3.60			
	Riser	3	3.00	-	0.15	1.35			
						6.75	SQ.M	990.00	6682.50
21	14.5 White washing with lime to give an even shade. 14.5.1 On new work (Three or more coats)								
	(BUILDING SOR ITEM NO.-14.5.1/132)	-	-	-	-	310.02	SQ.M	9.40	2914.19
						287.58			2708.25

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
22	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Bika wall care, Alltek Superfine W/R of (NCL), Aston, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even. As per inner, outer plastering								
	(BUILDING SOR ITEM NO.-14.13/133)	-	-	-	-	287.56	SQ.M	94.50	27176.84
23	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1) On new work (Three or more coats) As per inner & Ceiling plastering								
	(BUILDING SOR ITEM NO.-14.11.1/133)	-	-	-	-	183.30	SQ.M	52.50	9623.00
24	Applying one coat of cement primer on wall surface (applied @ 0.80 ltrs/10 SQ.M) complete. As per inner, outer plastering								
	(BUILDING SOR ITEM NO.-14.12/133)	-	-	-	-	287.56	SQ.M	23.00	6614.00
25	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with: 14.15.1 On new work (Two or more coats applied @ 1.43 ltr/10 SQ.M over and including priming coat of exterior primer applied @ 2.20 kg/10 SQ.M)								
	(BUILDING SOR ITEM NO.-14.15.1/133)	-	-	-	-	104.28	SQ.M	56.00	5839.68
Total Rs.									438830.00
Or say Rs.									438830.00
(Rs. Four Lakhs Thirty Nine Thousand Only),									

468752.00

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUHEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4038748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM NAGAR PANCHAYAT AT SARGAON DIST. - BILASPUR, (C.G.)

" OPEN BATH AREA "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil								
	(BUILDING SOR ITEM NO.-1.1/9)								
		F1	6	1.50	1.50	2.40	32.40		
						32.40	CUM	185.00	5994.00
2	Extra for every additional lift of 1.5M or part there of 1.6.1 All types of soil (BUILDING SOR ITEM NO.-1.6.1/10)								
		F1	6	1.50	1.50	0.90	12.15		
						12.15	CUM	26.50	321.98
3	Extra rate for every 50 mt. average lead upto 150 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift. 1.9.1 For soil (BUILDING SOR ITEM NO.-1.9.1/10)								
			Item No. (1.1.1) - Item No.(1.17)			6.59	CUM	33.00	217.40
4	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M. (BUILDING SOR ITEM NO.1.17/11)								
		F1	6	1.50	1.50	2.40	32.40		
	Deduction- Sand cushion, pcc, footing, column up to GL					-6.59			
						25.81	CUM	65.00	1677.78
5	Providing and filling in plinth with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete. (BUILDING SOR. ITEM NO.-1.18/11)								
		F1	6	1.50	1.50	0.10	1.35		
	Open Bath Area-	1	9.60	3.20	0.35	10.75			
						12.10	CUM	371.00	4489.84
6	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size). (BUILDING SOR. ITEM NO.- 3.1.3/23)								
		F1	6	1.50	1.50	0.10	1.35		
	Open Bath Area-	1	9.60	3.20	0.10	3.07			
	Front Steps -	2	10.00	0.15	0.10	0.30			
		1	10.00	1.20	0.10	1.20			
						5.92	CUM	2970.00	17588.34
7	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size). (BUILDING SOR ITEM NO.- 3.2/23)								
	Footing-								
		F1	6	1.20	1.20	0.40	3.46		
	Column upto Ground level								
		C1	6	0.20	0.20	1.80	0.43		
	Column upto Plinth level								
		C1	6	0.20	0.20	0.45	0.11		
	Ground Beam								

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	X-Direction								
	GB1	3	3.00	0.20	0.20	0.36			
	Y-Direction								
	GB1	2	3.00	0.20	0.20	0.24			
	SUPERSTRUCTURE				(A)	4.60			
	Column upto Top level-								
	C1	6	0.20	0.20	2.10	0.50			
					(B)	0.50			
					(A+B)	5.10	CUM	4163.00	21231.30
8	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	(BUILDING SOR. ITEM NO.-3.4/23)	-	-	-	-	0.50	CUM	97.50	49.14
9	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars FE 415								
	(BUILDING SOR. ITEM NO.-3.12.1/24)								
						Quantity as per item 3.3	5.10		
						60 kg/cum	306.00	KG	54.50
									16677.00
10	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	(BUILDING SOR ITEM NO.- 2.1.1/16)								
	Footings-								
	F1	6x4	1.20	-	0.40	11.52			
	Column upto Ground level & Column upto Plinth level								
	C1	6x4	0.20	-	2.25	10.80			
	Ground Beam								
	X-Direction								
	GB1	3X2	3.00	-	0.20	3.60			
	Y-Direction								
	GB1	2X2	3.00	-	0.20	2.40			
						28.32	SQ.M	139.00	3936.48
	Columns, Pillars, Piers and likes- rectangular or square in shape								
	(BUILDING SOR ITEM NO.- 2.1.5/16)								
	Column upto Top level-								
	C1	6x4	0.20	-	2.10	5.04			
						5.04	SQ.M	297.00	1496.88
11	Brick work with modular fly-ash lime bricks (FALG Bricks) conforming to IS:12894-2002 of class designation 40 in foundation and plinth in 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	(BUILDING SOR ITEM NO.- 7.5.4/45)								
	Below Ground Beam	1	15.00	0.30	0.10	0.45			
	In Plinth-	1	15.00	0.20	0.45	1.35			
	Steps	2	10.00	0.30	0.15	0.90			
		1	10.00	1.20	0.15	1.80			
						4.50	CUM	3263.00	14683.50
12	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.								
	(BUILDING SOR ITEM NO.- 3.13/24)	1	15.00	0.20	0.05	0.15	CUM	4237.00	635.55
13	Providing and making 15mm.thick cement plaster on the rough side of single or half brickwall of mix. 1:1.3.4.) In Cement Mortar 1:6 (1 cement : 6 fine sand)								
	(BUILDING SOR. ITEM NO.-11.3/103)								
	Outer wall	1	16.80	-	2.10	35.28			

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	Inner wall	1	16.00	-	2.10	33.60			
						68.88	SQ.M	107.00	7370.16
14	14.5 White washing with lime to give an even shade. 14.5.1 On new work (Three or more coats)								
	(BUILDING SOR ITEM NO.-14.5.1/132)	-	-	-	-	68.88	SQ.M	9.40	647.47
15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.15.1 On new work (Two or more coats applied @ 1.43 lit/ 10 SQ.M over and including priming coat of exterior primer applied @ 2.20 kg/ 10 SQ.M)								
	(BUILDING SOR ITEM NO.-14.15.1/133)	-	-	-	-	68.88	SQ.M	56.00	3857.28
16	Providing and laying ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. 12.9.1)300x300								
	(BUILDING SOR ITEM NO.- 12.9/112)								
	Open Bath Area-	1	9.60	3.20	-	30.72			
	Front Steps -	2	10.00	0.15	-	3.00			
		1	10.00	1.20	-	12.00			
						45.72	SQ.M	692.00	21258.24
17	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per SQ.M including pointing in white cement mixed with matching pigment complete. 12.7.1) Size upto 200x300mm								
	(BUILDING SOR ITEM NO.- 12.7.1/111)								
	Open Bath Area-	1	16.00	-	2.10	33.60			
	Riser	1	10.00	-	0.15	1.50			
						35.10	SQ.M	587.00	20603.70
								Total Rs.	142736.00
								Or say Rs.	143000.00
(Rs. One Lakhs Forty Three Thousand Only)									

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)


PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255740, 4036743

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAYAT AT SARGAON DIST. - BILASPUR, (C.G.)

" TOILET BLOCK "									
S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1 In all types of soil (BUILDING SOR ITEM NO.-1.1.1/9)	F1	10	1.20	1.20	2.40	34.56		
						34.56	CUM	185.00	6393.60
2	Extra for every additional lift of 1.5M or part there of 1.6.1 All types of soil (BUILDING SOR ITEM NO.-1.6.1/10)	F1	10	1.20	1.20	0.90	12.96		
						12.96	CUM	26.50	343.44
3	Extra rate for every 50 mt. average lead upto 150 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift. 1.9.1 For soil (BUILDING SOR ITEM NO.-1.9.1/10)								
			Item No. (1.1.1) - Item No.(1.17)			7.47	CUM	33.00	246.51
4	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M. (BUILDING SOR ITEM NO.1.17/11)	F1	10	1.20	1.20	2.40	34.56		
	Deduction- Sand cushion, pcc, footing, column up to GL					-7.47			
						27.09	CUM	65.00	1760.85
5	Providing and filling in plinth with sand /crusher dust and hard macrum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete. (BUILDING SOR. ITEM NO.-1.18/11)	F1	10	1.20	1.20	0.15	2.16		
	Toilet block-	1	9.40	3.60	0.35	11.84			
						14.00	CUM	371.00	5195.48
6	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size). (BUILDING SOR. ITEM NO.- 3.1.3/23)	F1	10	1.20	1.20	0.15	2.16		
	Toilet block-	1	9.40	3.60	0.10	3.38			
	Front Steps -	2	9.80	0.15	0.10	0.29			
		1	9.80	0.60	0.10	0.59			
						6.43	CUM	2970.00	19085.22
7	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size). (BUILDING SOR ITEM NO.- 3.2/23)								
	Footing-								
	F1	10	0.90	0.90	0.30	2.43			
	Column upto Ground level								
	C1	10	0.20	0.20	1.80	0.72			
	Column upto Plinth level								
	C1	10	0.20	0.20	0.60	0.24			
	Ground Beam								
	X-Direction								
	G81	8	2.20	0.20	0.30	1.06			
	Y-Direction								
	G81	5	3.60	0.20	0.30	1.08			
	SUPERSTRUCTURE				(A)	5.53			

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	Column upto Slab level-								
	C1	10	0.20	0.20	3.30	1.32			
	Slab Beam								
	X-Direction								
	SB1	8	2.20	0.20	0.30	1.06			
	Y-Direction								
	SB1	5	3.60	0.20	0.30	1.08			
	Slab	1	9.80	4.00	0.125	4.90			
	Chajja	1	9.80	0.60	0.10	0.59			
		2	4.00	0.60	0.10	0.48			
	Basin Platform	2	2.00	0.60	0.10	0.24			
					(B)	9.66			
					(A+B)	15.19	CUM	4163.00	63235.97
8	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	(BUILDING SOR. ITEM NO.-3.4/23)	-	-	-	-	9.66	CUM	97.50	942.24
9	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars FE 415								
	(BUILDING SOR. ITEM NO.-3.12.1/24)								
						Quantity as per item 3.3		15.19	
						110kg/cum		1670.90	91064.05
							KG	54.50	
10	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beams, curtain wall in any shape and size and all type of wall below plinth level.								
	(BUILDING SOR ITEM NO.- 2.1.1/16)								
	Footing-								
	F1	10x4	0.90	-	0.30	10.80			
	Column upto Ground level & Column upto Plinth level								
	C1	10x4	0.20	-	2.40	19.20			
	Ground Beam								
	X-Direction								
	GB1	8X2	2.20	-	0.30	10.56			
	Y-Direction								
	GB1	5X2	3.60	-	0.30	10.80			
						51.36	SQ.M	139.00	7139.04
	Beams,lintels, Cantilevers & Walls.								
	(BUILDING SOR ITEM NO.- 2.1.5/16)								
	Slab Beam								
	X-Direction								
	SB1	8	2.20	0.20		3.52			
		8x2	2.20	-	0.30	3.96			
	Y-Direction								
	SB1	4	3.60	0.20	-	2.88			
		4X2	3.600	-	0.30	8.64			
						19.00	SQ.M	202.00	3838.00
	Columns, Pillars, Piers and likes- rectangular or square in shape								
	(BUILDING SOR ITEM NO.- 2.1.5/16)								
	Column upto Slab level								
	C1	10x4	0.20	-	3.30	13.20			
						13.20	SQ.M	297.00	3920.40
	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
	(BUILDING SOR ITEM NO.- 2.1.7/16)								
	Slab	1	9.80	4.00	-	39.20			
	Chajja	1	9.80	0.60	-	5.88			
		2	4.00	0.60	-	4.80			
	Sides	1	27.40	-	0.15	4.14			
						54.02	SQ.M	235.00	12694.70
11	Brick work with modular fly-ash lime bricks (FALG Bricks) conforming to IS:12894-2002 of class designation 40 in foundation and plinth in:7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	(BUILDING SOR ITEM NO.- 7.3.4/45)								
	Below Ground Beam	1	35.60	0.30	0.10	1.07			
	In Plinth-	1	35.60	0.20	0.50	3.56			
	Steps	1	9.80	1.20	0.15	1.76			
		1	9.80	0.90	0.15	1.32			
		1	9.80	0.60	0.15	0.88			
						8.60	CUM	3263.00	28052.01
	Extra for brick work in superstructure Above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	(BUILDING SOR. ITEM NO.- 7.6/45)								
	X-Direction	1	17.60	0.20	3.00	10.56			
	Y-Direction	1	10.80	0.20	3.00	6.48			
					(A)	17.04			
	Deduction								
	D1	2	0.90	0.20	2.10	0.76			
	V1	4	1.20	0.20	0.60	0.58			
					(B)	1.33		(3263+121)	
					(A-B)	15.71	CUM	3384.00	53155.87
12	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) conforming to IS: 12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level. 7.11.2) Cement Mortar 1:4 (1 cement : 4 coarse sand)								
	(BUILDING SOR ITEM NO.- 7.11/45)								
	Toilet Partition wall	6	1.50	-	3.00	27.00			
		2	3.10	-	3.00	18.60			
					(A)	45.60			
	Deduction								
	D2	6	0.75	-	2.10	9.45			
					(B)	9.45			
					(A-B)	36.15	SQ.M	382.00	13809.30
13	Extra for half brick work in superstructure above plinth level for every storey or part thereof in addition to rate for upto plinth:								
	(BUILDING SOR ITEM NO.- 7.12/46)	-	-	-	-	36.15	SQ.M	11.00	397.65
14	Extra for providing and placing in position lapping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.								
	(BUILDING SOR ITEM NO.- 7.20/46)	-	-	-	-	36.15	SQM	62.50	2259.38
15	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.								
	(BUILDING SOR ITEM NO.- 3.13/24)	1	35.60	0.20	0.05	0.36			
		1	15.20	0.10	0.05	0.08			
						0.43	CUM	4237.00	1830.38
16	Providing and making 6 mm thick cement plaster of mix in Cement mortar 1:4 (1 cement : 4 fine sand)								
	(BUILDING SOR. ITEM NO.-11.1/103)								
	Slab	1	9.80	4.00	-	39.20			
	Sides	1	27.60	-	0.15	4.14			
						43.34	SQ.M	87.00	3770.58
17	Providing and making 12mm.thick cement plaster of mix : in Cement Mortar 1:6 (1 Cement : 6 fine Sand)								
	(BUILDING SOR. ITEM NO.-11.2/103)								
	Toilet Inner wall	1	26.80	-	3.00	80.40			
					(A)	80.40			
	Deduction								
	D1	2	0.90	-	2.10	3.78			
	V1	4	1.20	-	0.60	2.88			
					(B)	6.66			
					(A-B)	73.74	SQ.M	91.50	7356.60
18	Providing and making 13mm.thick cement plaster on the rough side of single or half brickwall of mix. 1:1.3:4. } in Cement Mortar 1:6 (1 cement : 6 fine sand)								
	(BUILDING SOR. ITEM NO.-11.3/103)								
	Plinth To top	1	27.60	-	3.30	91.08			
					(A)	91.08			
	Deduction								

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
		D1 2	0.90	-	2.10	3.78			
		V1 4	1.20	-	0.60	2.88			
					(B)	6.66			
					(A-B)	84.42	SQ.M	107.00	9032.94
19	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of IS 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.								
	9.18.3 Single rebate/ mullion 100mmx50mm size, 1.25mm thick sheet.								
	(BUILDING SOR ITEM NO.-9.18/81)								
		D1 2	5.10	MTR	-	10.20			
		D2 6	4.95	MTR	-	29.70			
						39.90	METER	391.00	15600.90
20	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges. 8.12.2 35 mm. thick (single leaf)								
	(BUILDING SOR ITEM NO.-8.12.2/56)								
		D1 2	0.90	-	2.10	1.80			
		D2 6	0.75	-	2.10	4.50			
						6.30	SQ.M	2005.00	12632.00
21	Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete: 8.79.2 250 x 16mm								
	(BUILDING SOR ITEM NO.-8.79/64)	16	-	-	-	16	EACH	489.00	7824.00
22	Providing and fixing antique/ SS finished brass tower bolts (Barrel type) with antique/ SS polished MS screw complete: 250 x 10 mm								
	(BUILDING SOR ITEM NO.-8.81/64)	8	-	-	-	8	EACH	297.00	2376.00
23	Providing and fixing 150mm antique/ S.S. finished brass floor door stopper with rubber cushion and antique/ S.S. polished MS screws to suit the shutter thickness.								
	(BUILDING SOR ITEM NO.-8.90/65)	8	-	-	-	8	EACH	77.00	616.00
24	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete: 125 mm								
	(BUILDING SOR ITEM NO.-8.84/65)	16	-	-	-	16	EACH	58.50	936.00
25	Providing and fixing M.S. fan clamp/ hook for ceiling fan made out of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop.								
	(BUILDING SOR ITEM NO.-9.37/84)	2	-	-	-	2	EACH	97.00	194.00
26	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
	(BUILDING SOR ITEM NO.-9.15/81)	V1 4	1.20	-	0.60	4.80			
						4.80			
						120.00	KG	67.50	8100.00
					25 KG / SQ.M				

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
27	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 milled and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing and panelling to be paid for separately)								
	9.47.2) For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).								
	(BUILDING SOR ITEM NO.-9.47/85)								
		V1	4	1.20	-	0.60	4.80		
							4.80		
						10 KG / SQ.M	48.00	KG	338.00
	For fixed portion								16224.00
	(BUILDING SOR ITEM NO.-9.47/85)						4.80		
						8 KG / SQ.M	38.40	KG	331.00
	9.48 Extra for powder coating (minimum 50 micron) on aluminium sections instead of red oxide zinc chromate primer								12710.40
	(BUILDING SOR ITEM NO.-9.48/85)					9.60	KG	27.00	259.20
28	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item): 9.51.1 With float glass panes of 4 mm thickness								
	(BUILDING SOR ITEM NO.-9.51/85)								
		V1	4	1.2	-	0.6	4.80		
							4.80	SQ.M	611.00
									2932.80
29	Providing and laying ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. 12.9.1) 300x300								
	Toilet block-	1	9.40	3.60	-	33.84			
	(BUILDING SOR ITEM NO.- 12.9/112)					33.84	SQ.M	692.00	23417.28
30	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per SQ.M including pointing in white cement mixed with matching pigment complete. 12.7.1) Size upto 200x300mm								
	(BUILDING SOR ITEM NO.- 12.7.1/111)								
	Toilet wall	1	26.00	-	2.10	54.60			
	Wc wall	6	4.80	-	2.10	60.48			
					(A)	115.08			
	Deduction								
	D1	2	0.90	-	2.10	3.78			
	V1	4	1.20	-	0.60	2.88			
	D2	6	0.75	-	2.10	9.45			
					(B)	16.11			
					(A-B)	98.97	SQ.M	587.00	9456.57
31	KOTA stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 12mm (Average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone								
	(BUILDING SOR ITEM NO.-12.50/118)								
	Tread	2	9.80	0.30	-	5.88			
		1	9.80	0.60	-	5.88			
	Riser	3	9.80	-	0.15	4.41			

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	Basin Platform	2	2.00	0.60	0.10	0.24			
						16.41	SQ.M	990.00	16245.90
32	14.5 White washing with lime to give an even shade. 14.5.1 On new work (Three or more coats) (BUILDING SOR ITEM NO.-14.5.1/132)	-	-	-	-	214.82	SQ.M	9.40	2019.31
33	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even. As per inner, outer plastering (BUILDING SOR ITEM NO.-14.13/133)	-	-	-	-	214.82	SQ.M	94.50	20300.49
34	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1 On new work (Three or more coats) As per inner & Ceiling plastering (BUILDING SOR ITEM NO.-14.11.1/133)	-	-	-	-	123.74	SQ.M	52.50	6496.00
35	Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 SQ.M) complete. As per inner, outer plastering (BUILDING SOR ITEM NO.-14.12/133)	-	-	-	-	214.82	SQ.M	23.00	4941.00
36	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with: 14.15.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 SQ.M over and including priming coat of exterior primer applied @ 2.20 kg/ 10 SQ.M) (BUILDING SOR ITEM NO.-14.15.1/133)	-	-	-	-	91.08	SQ.M	56.00	5100.48
								Total Rs.	503907.00
								Or say Rs.	504000.00
(Rs. Five Lakhs Four Thousand Only)									

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUHEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255740, 4036748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAYAT AT SARGAON DIST. - BILASPUR, (C.G.)

" INTERNAL WATER SUPPLY & SANITARY WORK "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Providing and fixing vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :								
	18.4.1 White pedestal type	3	-	-	-	3.00	EACH	2882.00	8646.00
	(BUILDING SOR ITEM NO.-18.4/161)								
2	18.1 Providing and fixing water closet squatting pan (Indian type W.C. pan), 100mm sand cast iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required :								
	White Long pattern W.C. pan of size 580 mm	4	-	-	-	4.00	EACH	2459.00	9836.00
	(BUILDING SOR ITEM NO.-18.1/160)								
3	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required :								
	White Size 550x450 mm	5	-	-	-	5.00	EACH	1430.00	7150.00
	(BUILDING SOR ITEM NO.-18.17/162)								
4	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete: 18.13.1 Flat back half stall urinal of size 460x380x250mm								
	(BUILDING SOR ITEM NO.-18.13/162)	8	-	-	-	8.00	EACH	1776.00	14208.00
5	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.								
	18.76.1 75 mm dia pipe.	1	50.00	-	-	50.00	MTR	182.00	9100.00
	18.76.2 110 mm dia pipe.	1	50.00	-	-	50.00	MTR	267.00	13350.00
	(BUILDING SOR ITEM NO.-18.76/170)								
6	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.								
	Tee/ Tee with door/ Bend 45°/ Bend 90°								
	18.77.1.1 75 mm	20	-	-	-	20.00	EACH	113.00	2260.00
	18.77.1.2 110 mm	20	-	-	-	20.00	EACH	154.00	3080.00
	Vent cover								
	18.77.3.1 75 mm	2	-	-	-	2.00	EACH	34.00	68.00
	18.77.3.2 110 mm	2	-	-	-	2.00	EACH	44.00	88.00
	Access door cap								
	18.77.4.1 75 mm	20	-	-	-	20.00	EACH	49.50	990.00
	18.77.4.2 110 mm	20	-	-	-	20.00	EACH	59.00	1180.00
	18.77.6 Nahani Trap 110	20	-	-	-	20.00	EACH	90.50	1810.00
	(BUILDING SOR ITEM NO.-18.77/170)								
7	Providing and fixing UV stabilized Unplasticised PVC pipe clips of approved design to Rigid PVC pipes by means of 50 x 50 x 50 mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.								
	18.78.1 75 mm	10	-	-	-	10.00	EACH	57.00	570.00
	18.78.2 110 mm	10	-	-	-	10.00	EACH	61.00	610.00

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	(BUILDING SOR ITEM NO.-18.78/171)								
8	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 etc.,								
	19.5.1 15 mm nominal outer dia. Pipes.	100	-	-	-	100.00	MTR	123.00	12300.00
	19.5.2 20 mm nominal outer dia. Pipes.	100	-	-	-	100.00	MTR	167.00	16700.00
	(BUILDING SOR ITEM NO.-19.3/178)								
9	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 testing of joints complete as per direction of Engineer in Charge. INTERNAL WORK - EXPOSED ON WALL.								
	19.4.3 25 mm nominal outer dia. Pipes.	50	-	-	-	50.00	MTR	199.00	9950.00
	19.4.5 40 mm nominal outer dia. Pipes.	50	-	-	-	50.00	MTR	362.00	18100.00
	(BUILDING SOR ITEM NO.-19.5/176)								
10	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete:								
	19.7.6 50 mm dia. nominal bore	50	-	-	-	50.00	MTR	471.00	23550.00
	(BUILDING SOR ITEM NO.-19.7/177)								
11	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:								
	19.14.1 Bib cock (400 grams)	15	-	-	-	15.00	EACH	382.00	5730.00
	19.14.6 Stop cock (concealed) (600 grams)	3	-	-	-	3.00	EACH	494.00	1482.00
	19.14.4 Piller Cock (400 grams)	5	-	-	-	5.00	EACH	398.00	1990.00
	19.14.14 Soap dish plate	3	-	-	-	3.00	EACH	163.00	489.00
	19.14.15 Shower rose (revolving type)(150mm)	6	-	-	-	6.00	EACH	269.00	1614.00
	19.14.16 Towel rail (600mm long x 20mm dia)	6	-	-	-	6.00	EACH	338.00	2028.00
	(BUILDING SOR ITEM NO.-19.14/179)								
12	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.								
	18.25.2 40 mm dia	5	-	-	-	5.00	EACH	88.50	442.50
	(BUILDING SOR ITEM NO.-18.25.2/164)								
13	Providing and fixing 600x450 mm beveled edge 4mm mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.								
	(BUILDING SOR ITEM NO.-18.29/164)	5	-	-	-	5.00	EACH	599.00	2995.00
14	13.17 Providing and fixing 15mm thick Granite (machine cut, table rubbed & mirror polished on both sides) for partition curtain in toilets or similar locations of required size in wall with cement mortar 1:4 (1 cement : 4 coarse sand) including cutting chase in wall and joint with wall treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.								
	13.17.1 Granite stone grey/pink								
	Toilet	2	2.00	0.60	-	2.40			
	Staff Quarter	1	0.80	0.60	-	0.48			
						2.88	SQM	2111.00	6079.68

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
15	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete (dia of main line to be measured)								
	19.10.4 50 mm nominal bore (BUILDING SOR ITEM NO.-19.10/178)	10	-	-	-	10.00	EACH	347.00	3470.00
16	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):								
	19.16.4 50 mm nominal bore (BUILDING SOR ITEM NO.-19.16/179)	4	-	-	-	4.00	EACH	762.00	3048.00
17	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete								
	20.1.1 100 mm diameter	10	-	-	-	10.00	MTR	162.00	1620.00
	20.1.2 150 mm diameter	10	-	-	-	10.00	MTR	262.00	2620.00
	(BUILDING SOR ITEM NO.-20.1/189)								
18	Providing and constructing brick masonry chamber for underground pipe and bends with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design : 20.28.1 Inside dimensions 455x610 mm and 45 cm deep for single pipe line :								
	(BUILDING SOR ITEM NO.-20.28/194)	20	-	-	-	20.00	EACH	3796.00	75920.00
19	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked 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.								
	(BUILDING SOR ITEM NO.-19.42/184)	4	-	-	-	4000.00	LTR	7.30	29200.00
Total Rs.									293274.18
Or say Rs.									293000.00
(Rs. Two Lakhs Ninety Three Thousand Only)									

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सर्गांव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सर्गांव
जिला-मुंगेली (छ.ग.)

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUDEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4038743

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAYAT AT SARGAON DIST. - BILASPUR, (C.G.)

" C.C. ROAD 9.00 M WIDE "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation in Soil (by Mechanical Means.) Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300.								
	(PWD ROAD SOR NO. 3.2/11)	1	226.00	9.00	0.35	711.90			
						711.90	CUM	95.00	67631.00
2	Carriage by mechanical transport for 5 km lead: 1.26.1 Earth								
	(BUILDING SOR. ITEM NO.-1.26/12)								
						Qty.As Per Item No. 3.2	711.90	CUM	111.00
									79021.00
3	Granular Sub-base as per Table :- 400-1 Construction of granular sub base by providing close graded material carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface watering rolling and compacting with vibratory power roller at OMC to achieve the desired density complete as per clause 401 (B). By Mix in place method Disintegrated rock i.e moorum having CBR value not less than 20 and P.I. and L.L. not more than 6 and 20 respectively.								
	(PWD ROAD ITEM NO.-4.1(B)/15)	1	226.00	9.00	0.20	406.80			
						406.80	CUM	460.00	187128.00
4	Wet Mix Macadam (Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per clause 406.)								
	(PWD ROAD SOR NO. 4.10/16)	1.00	226.00	9.00	0.15	305.10			
						305.10	CUM	1434.00	437513.00
5	Dry Lean Cement Concrete Sub- base (Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ CUM, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.)								
	(PWD ROAD SOR NO.-6.1/26)	1	226.00	9.00	0.10	203.40			
						203.40	CUM	2332.00	474329.00

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
6	Cement Concrete Pavement (Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub-base, coarse and fine aggregate conforming to IS:383, and graded as per table 600-3, mixed as per approved mix design at site, laid, spread, vibrated, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, de-banding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing as per clause 602.)								
	(ii) With Cement concrete grade M-30 and minimum cement content @ 375 kg/cum.								
	(PWD ROAD SOR NO.- 6.3/26)								
		1	226.00	9.00	0.15	305.10			
						305.10	CUM	4539.00	1384849.00
Total Rs.									2630471.00
Or Say Rs.									2630000.00
(Rs. Twenty Six Lakhs Thirty Thousand Only)									

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)


PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHAUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAY AT SARGAON DIST. - BILASPUR, (C.G.)

" PAVING AREA "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation in Soil (by Mechanical Means.) Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300.								
	(ROAD SOR ITEM NO.-3.2/11)	1	4620.35	SQM	0.15	693.05			
						693.05	CUM	95.00	65839.99
2	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	(BUILDING SOR. ITEM NO.- 3.1.3/23)								
	Parking Area	1	2510.00	SQM.	0.15	376.50			
						376.50	CUM	2970.00	1118205.00
3	Granular Sub-base as per Table :- 400-1 Construction of granular sub base by providing close graded material carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface watering rolling and compacting with vibratory power roller at OMC to achieve the desired density complete as per clause 401 By mix in place method (i) Disintegrated rock i.e. moorum having CBR value not less than 20 and Pl and LL not more than 6 and 20 respectively.								
	(ROAD SOR ITEM NO.-4.1/15)	1	2110.35	SQ.M	0.15	316.55			
						316.55	CUM	460.00	145614.15
4	4.15 Providing & laying precast interlocking concrete blocks of minimum compressive strength of 300 kg/sq.cm and approved size, shape/ pattern over coarse sand bed of thickness upto 40 mm and joints thick filled with fine sand including leveling with surface vibrator, temping and sweeping etc. complete as per IRC-SP-63-2004 B) 80mm thick Plain precast interlock concrete block								
	(ROAD SOR. ITEM NO.-4.15/17)	1	4620.35	SQ.M	-	4620.35	SQ.M	590.00	2726006.50
5	Manufacturing, supply & fixing of precast kerb stone of size 400mmx259mmx200mm thick made of M-20 concrete rectangular in shape with one corner chamfered by 100 mm x 100 mm as approved design i/c cost of all material, labour and curing etc. complete.								
	(ROAD SOR. ITEM NO.-12.5/45)	5000	-	-	-	5000.00	EACH	140.00	700000.00
Total Rs.									4755665.64
Or say Rs.									4756000.00
(Rs. Forty Seven Lakhs Fifty Six Thousand Only)									

मुख्य नगर पालिका अधिकारी
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

CONSULTANT : PILLIWAR & ASSOCIATES, RAIPUR (C.G.)

उप अभियंता
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOURAY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4935748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAY AT SARGAON DIST. - BILASPUR, (C.G.)

S.No.	PARTICULAR	"EXTERNAL ELECTRIFICATION"							
		NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	Civil Work								
1	Designing and providing suitable RCC foundation in Cement Concrete 1:2:4 (1 cement 2 coarse sand 4 graded stone aggregate 20 mm nominal size) for 3 metre to 12 metre high GI octagonal pole including steel reinforcement form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as per specification.								
	6 mtr pole	70	0.60	0.60	0.90	22.68	CUM	5219.00	118366.92
	(ELSOR. ITEM NO.-19.12/72)								
2	Supply of hot dipped galvanized (in single dip to minimum 75 micron) octagonal pole made of 3mm thick steel grade E-350 sheet having window and flush cover with locking arrangement at suitable height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with following minimum specifications with 4 way terminal connector including 3mm thick anchor plate, 4 nos 20mm dia foundation bolts of EN8 grade, and as per IS 2062 & BS EN: 10025. (designed for wind speed upto 180km/hr, IS: 875 Part 3) 6 metre high , dia 130mm at bottom and 90mm at top, base plate size 220x220x12mm, foundation bolts 600mm long								
	(ELSOR. ITEM NO.-19.7.1/71)	70	-	-	-	70	EACH	7365.00	515550.00
3	Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffener of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. as per specification. 19.9.2 Single Over Hang 1.00 metre Long								
	(ELSOR. ITEM NO.-19.9.2/71)	70	-	-	-	70	EACH	1057.00	73990
4	Erection of GI octagonal/ tubular/conical pole on existing cement concrete foundation having grouted bolts and nuts, aligning in true vertical position as per specification. 6 metre high								
	(ELSOR. ITEM NO.-19.11.4/72)	70	-	-	-	70	EACH	805.00	56350.00
5	Painting of following height steel tubular poles with two coat of approved colour and shade synthetic enamel paint including cleaning the surface as per specification. 21.22.1 upto 6 metre								
	(ELSOR. ITEM NO.-19.24.1/76)	70	-	-	-	70	EACH	111.00	7770.00
	LT Cable and Termination								
6	Supplying and laying following sizes one number FRLS PVC insulated/XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground at a depth not less than 40 cm and upto 90 cm including excavation, sand cushioning, protective covering and refilling the trench etc as per specification, IS: 1554 (1988, Part 1) / IS 7098 (1988, Part 1).								
	4 x 10 sq. mm.	70	-	-	10	700.00	METER	293.00	205100.00
	Panel Incoming Wiring								
	15.1.24 4 x 25 sq. mm	1	-	-	100	100.00	METER	321.00	32100.00
	(ELSOR. ITEM NO.-15.1.22/52)								
7	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as per specification.								
	4 X 10 sq. mm (22 mm)	70X2	-	-	-	140	NOS.	98.00	13720.00
	(ELSOR. ITEM NO.-15.23.23/57)								
8	Providing following size ISI marked FRLS PVC insulated, PVC sheathed, flexible copper conductor wire.								
	2.5 sq. mm three core	70	-	-	6	420.00	METER	56.00	23520.00
	(ELSOR. ITEM NO.-32.2.5/142)								

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
9	Supplying and laying ISI marked double wall HDPE pipe (IS 14930 Part II) having corrugation on the outer wall and plan surface on inner wall in ground below road, path etc. at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, running and making the surface good etc. as per specification.								
	16.1.5 180 mm outer dia and 152 mm inner dia (ELECTRICAL SOR ITEM NO.-14.1.5/51)	70	-	-	10	700.00	METER	381.00	266700.00
	MAIN METAL PANEL BOARD								
10	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and following depth made out of not less than 2 mm thick CRCA MS powder coated sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ammeters etc as per specifications including powder coating painting but without busbars, switchgears and other accessories etc complete as per specification.								
	Above 450 mm and upto 600 mm deep (ELECTRICAL SOR ITEM NO.7.19/34)	2.00	1.20	1.20	-	2.88	sqm	8519.00	24535.00
11	Supply, installation, testing and commissioning of 4 pole (3 phase + neutral) aluminium bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as per specification.								
	400 amp (50x6mm) (ELECTRICAL SOR ITEM NO.7.20/35)	2.00	1.20	-	1.20	2.88	Metre	1531.00	4409.00
12	9.1.5 Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as per specification, IS/ IEC: 60947-2 and Ics = 100 % Icu.								
	3 pole MCCB, 125A, Adjustable Thermal - Magnetic Release, 25KA Incomer of Lighting Panel (ELECTRICAL SOR ITEM NO.9.1.5/50)	2.00	-	-	-	2.00	EACH	5740.00	11480.00
13	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.								
	6 amps to 32 amps (ELECTRICAL SOR ITEM NO.9.16/44)	20.00	-	-	-	20.00	Each	883.00	17660.00
14	Providing and fixing 3 pole, 415/500 volts following rating (AC-1 Duty) power contactor in existing starter/ cubical panel including connections, testing and commissioning etc. as per specification.								
	60 amps (ELECTRICAL SOR ITEM NO.10.13/48)	4.00	-	-	-	4.00	Each	3261.00	13044.00
15	Providing and fixing following rating current transformer in existing cubical panel including connections, testing and commissioning etc. as per specification.								
	100/5 amps (ELECTRICAL SOR ITEM NO.10.15/48)	2.00	-	-	-	2.00	Each	349.00	698.00
16	Providing and fixing panel mounting 230 volt LED type indicating lamp in existing cubical panel including connections, testing and commissioning etc. as per specification.								
	(ELECTRICAL SOR ITEM NO.10.17/49)	8.00	-	-	-	8.00	Each	94.00	752.00
17	Providing and fixing panel mounting following rating analog type ammeter of size 100x100 (NS) in existing cubical panel including connections, testing and commissioning etc. as per specification.								
	0-200 amps (ELECTRICAL SOR ITEM NO.10.18/49)	5.00	-	-	-	5.00	Each	458.00	2290.00
18	Providing and fixing panel mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including connections, testing and commissioning etc. as per specification.								
	Digital type (ELECTRICAL SOR ITEM NO.10.20/50)	5.00	-	-	-	5.00	Each	833.00	4175.00
19	Providing and fixing panel mounting selector switch in existing cubical panel including connections, testing and commissioning etc. as per specification.								
	For voltmeter	5.00	-	-	-	5.00	Each	189.00	945.00

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	For ammeter	5.00	-	-	-	5.00	Each	207.00	1035.00
	(ELECTRICAL SOR ITEM NO.10.21/50)								
20	Providing and fixing following Time switch (timer) in existing panel including connection, testing and commissioning as per specification.								
	Analog type	5.00	-	-	-	5.00	Each	2525.00	12625.00
	(ELECTRICAL SOR ITEM NO.10.22/50)								
	Earthing								
21	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as per specification and IS Code 3043: 1987(R 2016)								
	(EL SOR. ITEM NO.-12.1/48)	70	-	-	-	70	SET	3243.00	227010.00
22	Supplying and laying 25 mm X 6 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including soldering, excavation and refilling the trench etc. as per specification.								
	(EL SOR. ITEM NO.-12.13/49)	70	-	-	0.5	35.00	METER	94.00	3290.00
23	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including soldering, excavation and refilling the trench etc. as per specification.								
	(EL SOR. ITEM NO.-12.12/49)	70	-	-	0.5	35.00	METER	36.00	1260.00
24	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED dip efficacy ratio \geq 120 lumens /watt.								
	(EL SOR. ITEM NO.-6.28.7/17)								
	60 watt	70	-	-	-	70	NOS	3622.00	253540.00
Total Rs. -									1891914.92
Or Say Rs. -									1892000.00
(Rs. Eighteen Lakhs Ninety Two Thousand Only)									

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सरगांव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सरगांव
जिला-मुंगेली (छ.ग.)

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUDEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAY AT SARGAON DIST. - BILASPUR, (C.G.)


" BOREWELL WITH PUMP "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well within the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful points payable)								
	(BUILDING SOR ITEM NO. 21.17/201)	1	-	-	-	1	PT.	1502.00	1502.00
2	21.2 Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge beyond 90 metre & upto 150 metre depth below ground level. 21.2.1 All types of soil 200 mm dia								
	(BUILDING SOR ITEM NO. 21.2.1/198)	1	30.00	-	-	30.00	RMT	396.00	11880.00
3	21.2.2 Rocky strata including Boulders. 200 mm dia								
	(BUILDING SOR ITEM NO. 21.2.2/198)	1	120.00	-	-	120.00	RMT	475.00	57000.00
4	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS: 4270, of reputed & approved make, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge. 21.7.4 200 mm nominal dia								
	(BUILDING SOR ITEM NO. 21.7/199)	1	21.00	-	-	21.00	RMT	1477.00	31017.00
5	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of: 21.11.4 200mm dia								
	(BUILDING SOR ITEM NO. 21.11/200)	1	-	-	-	1	EACH	240.00	240.00
6	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tube well as per IS: 2800 (part I), including necessary bolts & nuts of required size complete. 21.12.4 200mm clamp								
	(BUILDING SOR ITEM NO. 21.12/200)	1	-	-	-	1	EACH	1199.00	1199.00
7	Supplying of submersible pump set for water supply system with submersible motor as per specification. 32.102.4 3.0 HP, three phase								
	(ELECTRICAL SOR ITEM NO.-32.102.5/163-20)	1	-	-	-	1	EACH	21466.00	21466.00
8	Supplying, laying and fixing following size submersible cable along with GI/PVC/HDPE pipe line or laid in ground etc as per specification and IS: 694 (2010). Note: Cable should be rust proof, safe from oil / Grease and under water Chemical / abrasion Resistant. 23.14.3-3x4.0 sqmm								
	(ELECTRICAL SOR ITEM NO.-23.14.3/163-20)	1	100.00			100.00	MTR	90.00	9000.00

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
9	Providing and fixing Ball plug/ Bottom plug of required dia to the bottom of pipe assembly of tube well as per IS:2800 (part I). 21.13.4 200mm dia								
	(BUILDING SOR ITEM NO. 21.13/201)	1				1	EACH	200.00	200.00
For One Total Rs.-									133504.00
For Two Total Rs.-									267008.00
Or Say:-									267008.00
(Rs.-Two Lakhs Sixty Seven Thousand Only)									

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सरगांव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सरगांव
जिला-मुंगेली (छ.ग.)


PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAYAT AT SARGAON DIST. - BILASPUR, (C.G.)

" EXTERNAL WATER SUPPLY PIPE LINE "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil								
	(BUILDING SOR ITEM NO.-1.1.1/9)	1	1000.00	0.30	0.60	180.00	CUM	185.00	33300.00
2	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
	(BUILDING SOR ITEM NO.-1.17/11)	1	1000.00	0.30	0.60	180.00	CUM	65.00	11700.00
3	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete:								
	19.9.6) 50 mm dia. nominal bore	1	500	-	-	200.00	MTR	398.00	79600.00
	19.9.8) 80 mm dia. nominal bore	1	500	-	-	50.00	MTR	639.00	31950.00
	(BUILDING SOR ITEM NO.- 19.9/177)								
4	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: (Dia of main line to be measured)								
	19.10.4) 50 mm dia. nominal bore	10	-	-	-	10.00	EACH	347.00	3470.00
	19.10.6) 80 mm dia. nominal bore	10	-	-	-	10.00	EACH	632.00	6320.00
	(BUILDING SOR ITEM NO.- 19.10/178)								
5	Providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete:								
	19.11.6) 50 mm dia. nominal bore	10	-	-	-	10.00	EACH	250.00	2500.00
	19.11.8) 80 mm dia. nominal bore	10	-	-	-	10.00	EACH	329.00	3290.00
	(BUILDING SOR ITEM NO.- 19.11/178)								
6	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):								
	19.16.6) 80 mm dia. nominal bore	4	-	-	-	4.00	EACH	1,933.00	7740.00
	(BUILDING SOR ITEM NO.- 19.16/179)								
7	Constructing masonry Chamber 60x60x75 cm, inside with modular well burnt clay bricks of 35 kg/ cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :								
	For 65mm to 100mm valve-								
	(BUILDING SOR ITEM NO.- 19.48/184)	20	-	-	-	20.00	EACH	4,644.00	92880.00
Total Rs.-									274750.00
Or Say.-									275000.00
(Rs. Two Lakhs Seventy Five Thousand Only)									

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सर्गांव
जिला-मुंगेली (छ.ग.)

COMPANY : PILLIWAR & ASSOCIATES, RAIPUR (C.G.)

उप अभियंता
नगर पंचायत सर्गांव
जिला-मुंगेली (छ.ग.)

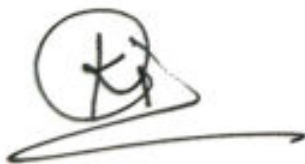
PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUHEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAYAT AT SARGAON DIST. - BILASPUR, (C.G.)

" BOUNDARY WALL - 1110.00 RMT "

S.No.	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil								
	(SOR ITEM NO.-1.1.1/9)								
	at every 3 meter	371	1.30	1.30	1.80	1128.58			
						1128.58	CUM	185.00	208788.00
2	Extra rate for every 50 mt. average lead upto 500 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift. For soil								
	(SOR ITEM NO.-1.9.1/10)								
	25 % of excavation item no.1					282.15	CUM	33.00	9310.80
3	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 3.1.3) 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	(SOR. ITEM NO.- 3.1.3/23)								
		371	1.30	1.30	0.10	62.70			
						62.70	CUM	2970.00	186216.00
4	Providing and laying nominal mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work. 3.4.2) 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	Column footing	371	1.00	1.00	0.30	111.30			
	Ground Beam	1	998.70	0.30	0.20	59.92			
	Column upto Ground level -								
	C1-	371	0.20	0.30	1.40	31.16			
	Column above Ground level -								
	C1-	371	0.20	0.30	2.10	46.75			
	(SOR. ITEM NO.- 3.2.1/23)					249.13	CUM	4163.00	1037137.00
5	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth.								
	(SOR. ITEM NO.-3.4/23)								
		-	-	-	-	46.75	CUM	97.50	4558.00
6	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete. 3.12.1) Thermo-Mechanically treated bars FE 415								
	(SOR. ITEM NO.-3.12.1/24)								
	Quantity as per item No.-4					249.13			
	80kg/cum					19930.56	KG	54.50	1086215.52
7	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, base of columns and plinth beam in any shape and size.								
	(SOR ITEM NO.-2.1.1/16)								
	Footing	4x371	1.20	-	0.30	267.12			
	Column upto Ground level -	4x371	0.20	-	1.40	207.76			
	Ground Beam	2	998.70	-	0.20	399.48			
						874.36	SQM	139.00	121536.00

S.No.	PARTICULARS	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
	Columns, Pillars, Piers and likes- rectangular or square in shape (SOR ITEM NO.- 2.1.5/16)								
	Column above Ground level -	4x371	0.20		2.10	311.64			
						311.64	SQM	297.00	92557.00
8	Brick work with modular fly-ash lime bricks (FALG Bricks) conforming to IS: 12894-2002 of class designation 40 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	(SOR. ITEM NO.- 7.3.4/45)								
	Extra for brick work in superstructure: Above plinth and upto floor five level								
	(SOR. ITEM NO.- 7.6/45)								
	Below Ground Beam	1	998.70	0.30	0.10	29.96			
	Wall	1	998.70	0.20	2.10	419.45			
								(3263+121)	
						449.42	CUM	3384.00	1520820.36
9	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: 1:1.3:4 in Cement Mortar 1:6 (1 cement : 6 fine sand)								
	(SOR. ITEM NO.-11.3/103)								
	Wall	2	998.70	-	2.10	4194.54			
	Top	1	998.70	0.20	-	199.74			
						4394.28	SQM	107.00	470187.96
10	White washing with lime to give an even shade.								
	(SOR. ITEM NO.-14.5.1/132)	-	-	-	-	4394.28	SQM	9.40	41306.23
11	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.15.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 SQ.M over and including priming coat of exterior primer applied @ 2.20 kg/ 10 SQ.M)								
	(BUILDING SOR ITEM NO.-14.15.1/133)	-	-	-	-	4394.28	SQM	56.00	246080.00
Total Rs.-									5024712.87
Or Say Rs.-									5025000.00
(Rs. Fifty Lakh Twenty Five Thousand Only)									





PILLIWAR & ASSOCIATES
 ENGINEERS, ARCHITECTS, PLANNERS,
 GIS-CONSULTANTS,
 & GOVT. APPROVED VALUERS,
 25, SOUTH AVENUE, CHOUBEY COLONY,
 RAIPUR (C.G.) ☎ (0771) 2255748, 4036748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAY AT SARGAON DIST. - BILASPUR, (C.G.)

" LANDSCAPING "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
1	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 10km (earth measured in stacks will be reduced by 20% for payment) (BUILDING SOR. ITEM NO.-22.2/204)	1	18323.90	SQM.	0.25	4580.98	CUM	201.00	920775.98
2	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment). (BUILDING SOR ITEM NO.-22.4/204)	1	18323.90	SQM.	0.10	1832.39	CUM	236.00	432444.04
3	22.8 Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately). (BUILDING SOR ITEM NO.-22.8/204)	1	18323.90	SQM.	0.35	6413.37	CUM	17.50	112233.89
4	22.9 Mixing earth and sludge or manure in proportion specified or directed (BUILDING SOR ITEM NO.-22.4/204)	1	18323.90	SQM.	0.35	6413.37	CUM	11.00	70547.02
5	Providing and planting of Bogenbelia dwarf, chandni dwarf, kaner dwarf or flower bearing plants with 0'9" x 0'9" depth pit formation and soil preparation work's, (Mixing organic manure and plant's protection insecticide). Up to 4 month maintenance (ROAD SOR ITEM NO.-12.8/46)	100	-	-	-	100.00	EACH	88.00	8800.00
6	12.10 Providing and planting of plumeria (Champa) 2'0" to 3'0" height plants with 1'0" x 1'0" x 1'6" depth pit formation and soil preparation work's, (Mixing organic manure and plant's protection insecticide). Up to 4 month maintenance (ROAD SOR ITEM NO.-12.10/46)	100	-	-	-	100.00	EACH	380.00	38000.00
7	Providing and Planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand.	100	-	-	-	100.00	EACH	14.00	1400.00
	22.25.1 Hedges like Alike, Dorenta, Tikoma etc.	100	-	-	-	100.00	EACH	26.50	2650.00
	22.25.3 Hibiscus (Flower) /Rose	1	17606.11	SQM.		17606.11	SQM	263.00	4630406.93
	22.25.4 Carpet Grass (Well developed) LAWN AREA- (BUILDING SOR. ITEM NO.-22.25/207)								
Total Rs.									6217257.85
Or say Rs.									6217000.00
(Rs. Sixty Two Lakhs Seventeen Thousand Only)									





PILLIWAR & ASSOCIATES
 ENGINEERS, ARCHITECTS, PLANNERS,
 GIS-CONSULTANTS,
 & GOVT. APPROVED VALUERS,
 25, SOUTH AVENUE, CHOUBEY COLONY,
 RAIPUR (C.G.) ☎ (0771) 2255748, 4036748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAYAT AT SARGAON DIST. - BILASPUR, (C.G.)

" RAIN WATER HARVESTING PIT (3.00X3.00X3.00) "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. In all types of soil								
	(BUILDING SOR ITEM NO.-1.1.1/9)	1	3.30	3.30	3.00	43.32	CUM	185.00	8014.20
2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	bottom Beam-	2	3.40	0.40	0.20	0.54			
		2	3.00	0.40	0.20	0.48			
	Top Slab-	1	3.40	3.40	0.15	1.73			
	Manhole-	-1	0.60	0.45	0.15	-0.04			
	(BUILDING SOR ITEM NO.-3.9/24)					2.71	CUM	4163.00	11281.73
3	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars FE 415								
	(BUILDING SOR ITEM NO.-3.12.1/24)					Qty. as per item No.-3.2.1	2.71		
						80 kg/cum	216.8	KG	54.50
									11815.60
4	Providing and fixing formwork including centering, shuttering, strutting staging propping bracing etc. complete and including its removal at all levels for: 2.1.6 Columns, beams & walls- circular or any other geometrical shape other than square and rectangular in all sizes								
		2	12.80		0.20	5.12			
						5.12	SQM	356.00	1822.72
	2.1.7) Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
	Top Slab-	1	3.40	3.40		11.56			
	Side	1	13.60		0.150	2.04			
	Manhole-					-0.27			
	(BUILDING SOR ITEM NO.-2.1/16)					13.33	SQM	235.00	3132.55
5	Brick work with modular fly-ash lime bricks (FaLO Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		1	12.80	0.40	1.00	5.12			
		1	12.80	0.30	1.00	3.84			
		1	12.80	0.20	1.00	2.56			
	(BUILDING SOR ITEM NO.-7.5.4/45)	1	12.80	0.40	2.50	42.80			
						11.52	C		37589.76
						Total	42.80	CUM	3263.00
									41766.40
6	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately)								
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	1	3.00	3.00	0.90	8.10	CUM	863.00	6990.30
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	1	3.00	3.00	0.50	4.50	CUM	806.00	3627.00
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	1	3.00	3.00	0.30	2.70	CUM	471.00	1271.70
	(BUILDING SOR ITEM NO.-21.14/201)								
7	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) slotted 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 mm nominal size dia.	1	5.00			5.00	MTR	546.00	2730.00
	(BUILDING SOR ITEM NO.-21.4.3/199)								

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
8	20.15 Providing and fixing in position precast R.C.C. manhole cover and frame L D- 2.5 of required shape and approved quality 20.15.1 Rectangular shape 600x450mm internal dimensions								
	(BUILDING SOR ITEM NO.-20.15/192)	1	-	-	-	1.00	EACH	1031.00	1031.00
	PIPELINE-								
9	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	In all types of soil	1	10.0	0.30	0.30	0.90	CUM	185.00	166.50
	(BUILDING SOR ITEM NO.-1.1/9)								
10	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M.								
	50% of Item No 9	-	-	-	-	0.45	CUM	65.00	29.25
	(BUILDING SOR ITEM NO.-1.17/11)								
11	Providing and filling in open area with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
	50% of Item No 1 - Pipe Dia	-	-	-	-	0.45	CUM	371.00	166.95
	(BUILDING SOR ITEM NO.-1.18/11)								
12	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :								
	150 mm diameter	1	10.00	-	-	10.00	RM	262.00	2620.00
	(BUILDING SOR ITEM NO.-20.1/189)								
13	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:								
	150 mm diameter S.W. pipe	1	10.00	-	-	10.00	RM	436.00	4360.00
	(BUILDING SOR ITEM NO.-20.2/189)								
14	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.								
	INLET-150 mm dia pipe.	1	10.00	-	-	10.00	RM	440.00	4400.00
	(BUILDING SOR ITEM NO.-18.76/170)								
Total Rs.									103256.00
Or Say Rs.-									103000.00
(Rs. One Lakhs Two Thousand Only)									

101049.61
101,000.00

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036745

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सर्गांव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सर्गांव
जिला-मुंगेली (छ.ग.)

**DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAY AT SARGAON
DIST. - BILASPUR, (C.G.)**

" UNDERGROUND SUMPWELL (4x3x1.8 M) "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil								
	(BUILDING SOR ITEM NO.-1.1.1/9)	1	5.30	4.30	2.30	52.42			
						52.42	CUM	185.00	9697.15
2	Extra for every additional lift of 1.5M or part thereof. All types of soil								
	(BUILDING SOR ITEM NO.-1.6.1/10)								
	1st Lift -	1	5.30	4.30	0.80	18.23			
						18.23	CUM	26.00	474.03
3	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M.								
	(BUILDING SOR ITEM NO.-1.17/11)								
		1	5.30	4.30	2.30	52.42			
	Deduction Tank Area	-1	5.00	4.00	2.15	-43.00			
						9.42	CUM	65.00	612.11
4	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 3.1.3) 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	(BUILDING SOR ITEM NO.- 3.1.3/23)	1	5.30	4.30	0.15	3.42	CUM	2,970.00	10152.95
5	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work. 3.3.2 M-25								
	Raft	1	5.00	4.00	0.20	4.00			
	houch	1	14.80	0.20	0.20	0.59			
	Wall-	1	14.80	0.20	1.80	5.33			
	Top Slab-	1	5.00	4.00	0.15	3.00			
		-1	0.60	0.45	0.15	-0.04			
	(BUILDING SOR ITEM NO.-3.3/23)					12.88	CUM	4,298.00	55356.09
6	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars								
						12.88			
	(BUILDING SOR ITEM NO.-3.12.1/24)					1288.0	KG	54.50	70193.28
7	Brick work with modular fly-ash lime bricks (FALG Bricks) conforming to IS:12894-2002 of class designation 40 in foundation and plinth in: 7.5.4) Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	(BUILDING SOR ITEM NO.- 7.5.4/45)	1	18.00	0.20	1.80	6.48			

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
						6.48	CUM	3,263.00	21144.24
8	Providing and fixing formwork including centering, shuttering, strutting staging propping bracing etc. complete and including its removal at all levels for: 2.1.2) Wall of any thickness including attached pilasters, buttresses etc.								
	Raft	1	18.00	-	0.20	3.60			
	Inner wall	1	14.00	-	1.80	25.20			
	Outer wall	1	16	-	1.80	28.08			
						56.88	SQM	228.00	12968.64
	2.1.7) Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
	Top Slab-	1	5.00	4.00	-	20.00			
	Side-	4	18.00	-	0.15	10.80			
		-1	0.60	0.45	-	-0.27			
	(BUILDING SOR ITEM NO.-2.1/16)					30.53	SQM	235.00	7174.55
9	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design:								
	20.11.1 With 20x20 mm square bar								
	(BUILDING SOR ITEM NO.-20.11.1/191)	10	-	-	-	10.00	Nos.	168.00	1680.00
10	Providing, erecting and giving test of submersible pump set Conforming to IS 8034-2002 with Amdt. No. 1, (With Up to date amendments) and motor Conforming to IS 9283-1995, with amdt.1 & 2, (With Up to date amendments) with water proof winding. Pump shall be suitable for various delivery head and discharge with stainless steel shaft. Motor suitable for working on 415 V + 10%, 3 Ph. 50 Hz A.C. Supply, with cableguard, thrust carbon/fiber bearing to withstand entire hydraulic thrust. The pump set shall be suitable for direct coupling with suitable suction strainer. Pump should have suitable discharge outlet as per manufacturer's design. Antithrust stream lined non return valve shall be provided with the pump. 3 m submersible copper conductor cable in single/double run and 2 pairs of suitable size erection clamp 10 mm thick shall be provided with each pump.								
	4Hp Pump								
	(PHE SOR ITEM NO.-31.1.1.5/313)	1				1.00	No.	24,115.00	24115.00
11	25mm thick cement concrete flooring with 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) finished with floating coat of neat cement.								
	(BUILDING SOR ITEM NO.-12.2/111)								
		1	3.00	4.00	-	12.00	SQM	165.00	1980.00
12	Providing and fixing in position precast R.C.C. manhole cover and frame L D- 2.5 of required shape and approved quality. 20.15.1 Rectangular shape 600x450mm internal dimensions								
	(BUILDING SOR ITEM NO.-20.15.1/192)	1				1.00	EACH	1030.00	1030.00
Total Rs.									216578.02
Or say Rs.									217000.00
(Rs. Two Lakhs Seventeen Thousand Only)									

मुख्य नगर पंचायत अधिकारी
नगर पंचायत सभागृह, RAIPUR (C.G.)
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सभागृह
जिला-मुंगेली (छ.ग.)

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 8036748

DETAILED ESTIMATE FOR PROPOSED MUKTIDHAM, NAGAR PANCHAY AT SARGAON DIST. - BILASPUR, (C.G.)

" SEPTIC TANK 3.00X1.50X1.55 M "

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
1	Excavation for all types and sizes of foundations trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil								
	(BUILDING SOR ITEM NO.-1.1/9)	1	3.80	2.30	2.02	17.65			
						17.65	CUM	185.00	3266.14
2	Extra for every additional lift of 1.5M or part there of 1.6.1 All types of soil								
	(BUILDING SOR ITEM NO.-1.6.1/10)	1	3.80	2.30	0.52	4.54			
						4.54	CUM	26.50	120.44
3	Extra rate for quantity of work executed in or under water and/ or liquid mud including pumping out water.								
	(BUILDING SOR ITEM NO.-1.7/10)								
					40 % of excavation	7.06	CUM	51.00	360.16
4	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 3.1.3) 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	(BUILDING SOR ITEM NO.- 3.1.3/23)	1	3.80	2.30	0.15	1.31	CUM	2970.00	3893.67
5	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work. 3.2.1) 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	(BUILDING SOR ITEM NO.- 3.4.2/23)								
	Wall-	1	9.80	0.20	1.60	3.14			
	Bottom Slab-	1	3.80	2.30	0.15	1.31			
	Top Slab-	1	3.40	1.90	0.12	0.78			
	Beam-	1	1.50	0.20	0.20	0.06			
	Deduction-	-2	0.60	0.60	0.60	-0.43			
						4.85	CUM	4163.00	20191.38
	(BUILDING SOR ITEM NO.- 3.2.1/23)								
6	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: 2.1.2) Wall of any thickness including attached pilasters, buttresses etc. in superstructure.								
	Inner Wall	1	10.60	-	1.60	16.96			
	Outer wall	1	9.00	-	1.60	14.40			
						31.36	SQM	228.00	7150.08
	2.1.10 Folded plates slabs								
	Top Slab-	1	3.40	1.90		6.46			
	side	1	10.60		0.12	1.27			
	Deduction-	-2	0.60	0.60		-0.72			
						7.01	SQM	194.00	1360.33
	(BUILDING SOR ITEM NO.-2.1/17)								
7	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting bending binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars FE 415								
	(BUILDING SOR ITEM NO.-3.12.1/24)								
						Qty as per item no. 4			
						100 kg/cum			
						485.02	KO	54.50	26433.59

S.No.	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in Rs.)	AMOUNT (in Rs.)
8	Brick work with modular fly-ash lime bricks (FaLO Bricks) conforming to IS: 12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	(BUILDING SOR ITEM NO.-7.5.4/45)	1	17.40	0.20	1.60	5.57			
		1	2.50	0.20	1.40	0.70			
		1	2.50	0.20	0.80	0.40			
	pipe Deduction:-	-5	0.40		3.14x1.5	-0.94			
					Total	5.73	CUM	3263.00	18683.94
9	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design. 20.11.1 With 20x20 mm square bar								
	(BUILDING SOR ITEM NO.-20.11/191)	8				8	NOS.	168.00	1344.00
10	Providing and fixing in position precast R.C.C. manhole cover and frame L.D- 2.5 of required shape and approved quality Rectangular shape 600x450mm internal dimensions								
	(BUILDING SOR ITEM NO.-20.15.1/192)	2				2	EACH	1031.00	2062.00
11	25mm thick cement concrete flooring with 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) finished with floating coat of neat cement.								
	(BUILDING SOR ITEM NO.-12.2/111)	1	3.00	1.50	-	4.50	SQM	165.00	742.50
12	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.								
	(BUILDING SOR ITEM NO.-20.31/195)	1				1	EACH	1709.00	1709.00
13	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.								
	150 mm dia pipe.								
	(BUILDING SOR ITEM NO.-18.76/170)	2	1.00	-	-	2.00	MTR	440.00	880.00
Total Rs.									88197.22
Or say Rs.									88000.00
(Rs. Eighty Eight Thousand Only)									

मुख्य नगर पालिका अधिकारी
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

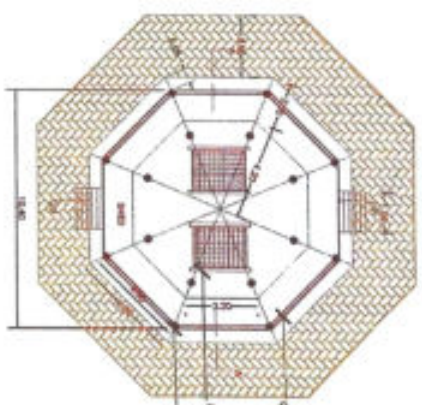
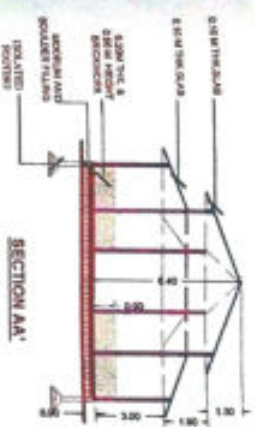
उप अभियंता
नगर पंचायत सरगाँव
जिला-मुंगेली (छ.ग.)

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036748

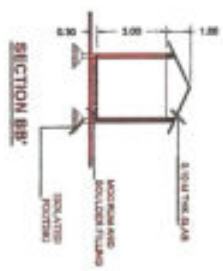
DRAWINGS

PHASE III
FUTURE
EXPANSION

PHASE II
FUTURE
EXPANSION



PLAN OF CREMATORIUM
AREA = 80.00 SQ.M



PLAN OF CHABUTRA FOR DEAD BODY
AREA = 6.00 SQ.M

AREA STATEMENT :

S.No.	PARTICULAR	AREA (IN SQ.M)	%
1)	ROAD AREA	2034.00	7.96
2)	PATWAY & PAVING AREA	4820.25	17.43
3)	LANDSCAPED AREA	18323.90	68.10
4)	GROUND COVERAGE	640.96	2.41
TOTAL		25618.11	100.00

GROUND COVERAGE DESCRIPTION

S.No.	PARTICULAR	AREA (IN SQ.M)	%
1)	WAITING SHED	166.32	28.36
2)	WOOD STORAGE	55.41	8.78
3)	AREA FOR BATH - OPEN	54.08	8.57
4)	CREMATORIUM	180.00	28.53
5)	CHABUTRA	12.00	1.80
6)	TOILET	51.95	8.25
7)	STAFF QUARTER	47.10	7.46
8)	TEMPLE	64.00	10.15
TOTAL		630.96	100.00

OTHER DESCRIPTION

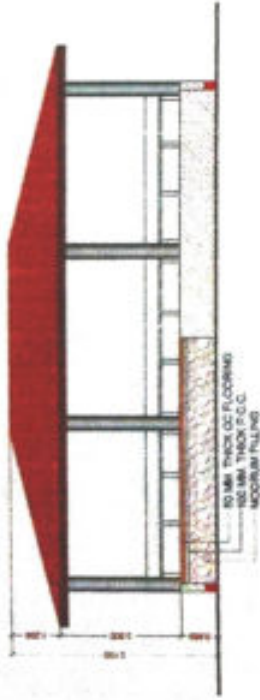
S.No.	PARTICULAR	AREA (IN SQ.M)
1)	PRIMARY & PAVING AREA	4820.25
2)	LANDSCAPED AREA	18323.90
3)	BENCH	12
4)	ELECTRIC POLE (NO. IN V)	—

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOWBETTY COLONY,
RAIPUR (C.A.) ☎ 1077112255744, 4025174

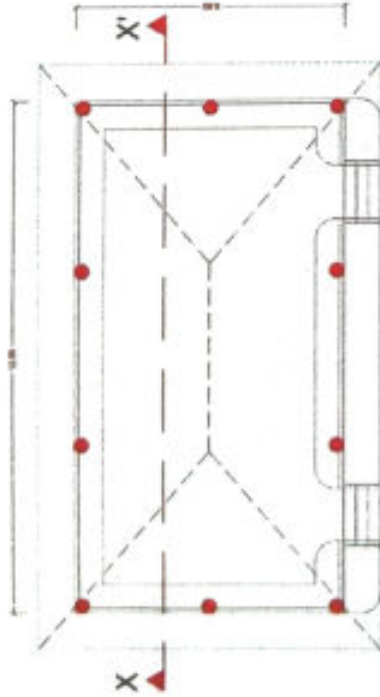
PILLIWAR & ASSOCIATES

PROJECTED, APPROVED, PLANNED,
DESIGNED, DRAWN, CHECKED, VALUED,
BY: PILLIWAR & ASSOCIATES, RAIPUR (C.A.)
DATE: 25/03/2022

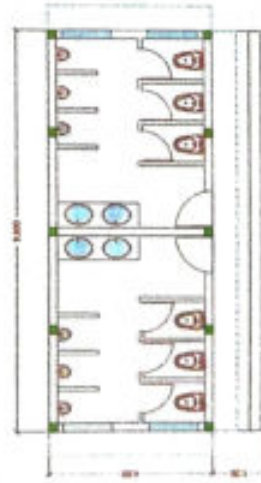
MUKTIDHAM, NAGAR PANCHAYAT SARGAON DIST. - BILASPUR, (C.G.)



SECTION X-X'



**PLAN OF WAITING SHED
AREA - 166.32 SQ.M.**



**TOILET BLOCK
9.40 M X 3.60 M**



**OPEN BATH
9.60 M X 3.60 M**



**WOOD STORAGE
10.00M X 5.00M**



**STAFF QUARTER
6.00 M X 6.00 M**

AREA STATEMENT

GROUND COVERAGE DESCRIPTION

S No	PARTICULAR	AREA (in sq.m)	%
1)	WAITING SHED	166.32	26.36
2)	WOOD STORAGE	50.41	8.78
3)	AREA FOR BATH - OPEN	34.56	5.57
4)	CHEMATORIUM	160.00	25.53
5)	CHABUTRA	12.00	1.90
6)	TOILET	34.56	5.57
7)	STAFF QUARTER	36.00	5.77
8)	TEMPLE	94.00	15.15
	TOTAL	630.86	100.00

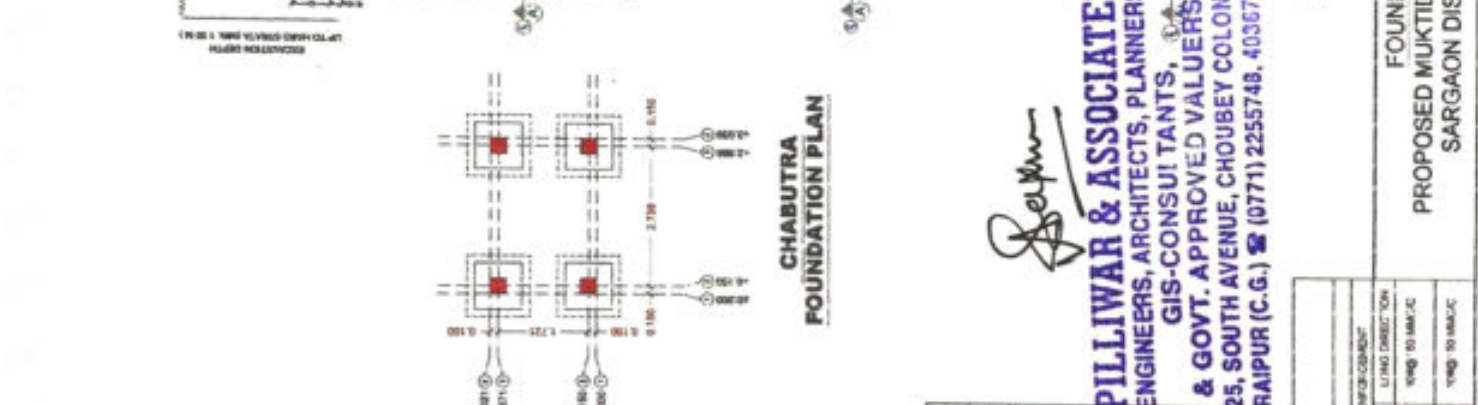
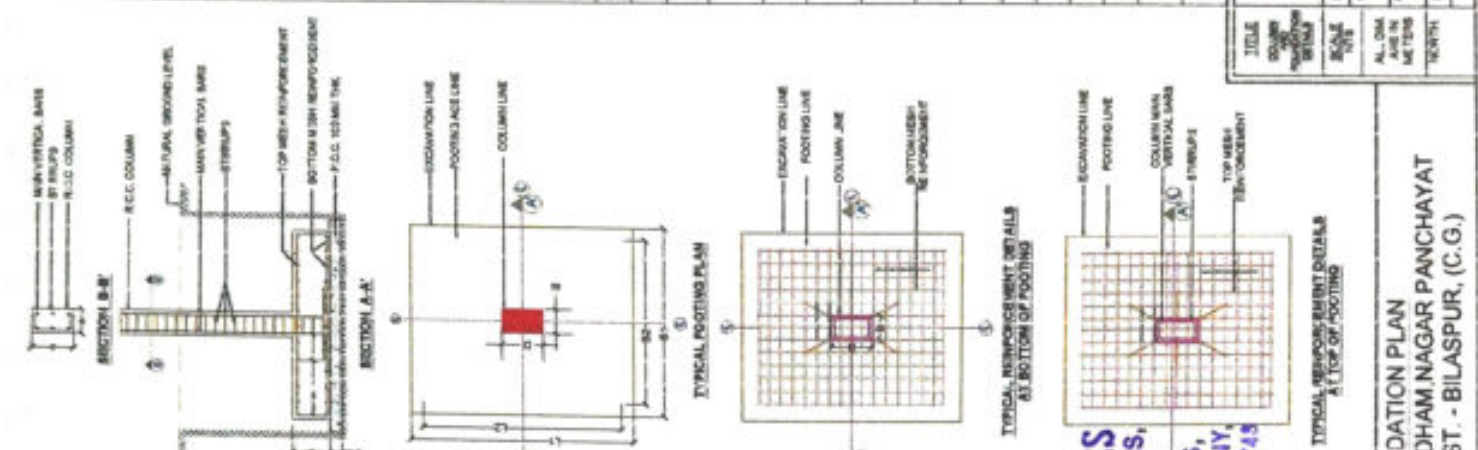
Signature

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS
& GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036748

TITLE	PILLIWAR & ASSOCIATES
PLAN	ENGINEERS, ARCHITECTS, PLANNERS, & GIS-CONSULTANTS, & GOVT. APPROVED VALUERS, 25, SOUTH AVENUE, CHOUBEY COLONY, RAIPUR (C.G.) ☎ (0771) 2255748, 4036748
SCALE	1:100
DATE	25-03-2022
DESIGNED BY	MAHESH PILLIWAR
CHECKED BY	MAHESH PILLIWAR
DRAWN BY	MAHESH PILLIWAR
PROJECT	MAHARAJA PANCHAYAT SARGAON DIST - BILASPUR (C.G.)
CLIENT	MAHARAJA PANCHAYAT SARGAON DIST - BILASPUR (C.G.)
NOTE	1. ALL DIMENSIONS ARE IN METERS. 2. THE PLAN IS FOR GENERAL REFERENCE ONLY. 3. THE PLAN IS NOT TO BE USED FOR ANY OTHER PURPOSE.
NORTH	N

MUKTIDHAM, NAGAR PANCHAYAT SARGAON DIST. - BILASPUR, (C.G.)

MEAN ET ALCOHOL AND CODE USED			
NO.	REMARKS	REMARKS	REMARKS
1	1000000	FOR PLANT AND B. (SPECIAL)	
2	1000000	FOR PLANT AND B. (SPECIAL)	
3	1000000	FOR PLANT AND B. (SPECIAL)	
4	1000000	FOR PLANT AND B. (SPECIAL)	
5	1000000	FOR PLANT AND B. (SPECIAL)	
6	1000000	FOR PLANT AND B. (SPECIAL)	
7	1000000	FOR PLANT AND B. (SPECIAL)	
8	1000000	FOR PLANT AND B. (SPECIAL)	
9	1000000	FOR PLANT AND B. (SPECIAL)	
10	1000000	FOR PLANT AND B. (SPECIAL)	
11	1000000	FOR PLANT AND B. (SPECIAL)	
12	1000000	FOR PLANT AND B. (SPECIAL)	
13	1000000	FOR PLANT AND B. (SPECIAL)	
14	1000000	FOR PLANT AND B. (SPECIAL)	
15	1000000	FOR PLANT AND B. (SPECIAL)	
16	1000000	FOR PLANT AND B. (SPECIAL)	
17	1000000	FOR PLANT AND B. (SPECIAL)	
18	1000000	FOR PLANT AND B. (SPECIAL)	
19	1000000	FOR PLANT AND B. (SPECIAL)	
20	1000000	FOR PLANT AND B. (SPECIAL)	
21	1000000	FOR PLANT AND B. (SPECIAL)	
22	1000000	FOR PLANT AND B. (SPECIAL)	
23	1000000	FOR PLANT AND B. (SPECIAL)	
24	1000000	FOR PLANT AND B. (SPECIAL)	
25	1000000	FOR PLANT AND B. (SPECIAL)	
26	1000000	FOR PLANT AND B. (SPECIAL)	
27	1000000	FOR PLANT AND B. (SPECIAL)	
28	1000000	FOR PLANT AND B. (SPECIAL)	
29	1000000	FOR PLANT AND B. (SPECIAL)	
30	1000000	FOR PLANT AND B. (SPECIAL)	
31	1000000	FOR PLANT AND B. (SPECIAL)	
32	1000000	FOR PLANT AND B. (SPECIAL)	
33	1000000	FOR PLANT AND B. (SPECIAL)	
34	1000000	FOR PLANT AND B. (SPECIAL)	
35	1000000	FOR PLANT AND B. (SPECIAL)	
36	1000000	FOR PLANT AND B. (SPECIAL)	
37	1000000	FOR PLANT AND B. (SPECIAL)	
38	1000000	FOR PLANT AND B. (SPECIAL)	
39	1000000	FOR PLANT AND B. (SPECIAL)	
40	1000000	FOR PLANT AND B. (SPECIAL)	
41	1000000	FOR PLANT AND B. (SPECIAL)	
42	1000000	FOR PLANT AND B. (SPECIAL)	
43	1000000	FOR PLANT AND B. (SPECIAL)	
44	1000000	FOR PLANT AND B. (SPECIAL)	
45	1000000	FOR PLANT AND B. (SPECIAL)	
46	1000000	FOR PLANT AND B. (SPECIAL)	
47	1000000	FOR PLANT AND B. (SPECIAL)	
48	1000000	FOR PLANT AND B. (SPECIAL)	
49	1000000	FOR PLANT AND B. (SPECIAL)	
50	1000000	FOR PLANT AND B. (SPECIAL)	
51	1000000	FOR PLANT AND B. (SPECIAL)	
52	1000000	FOR PLANT AND B. (SPECIAL)	
53	1000000	FOR PLANT AND B. (SPECIAL)	
54	1000000	FOR PLANT AND B. (SPECIAL)	
55	1000000	FOR PLANT AND B. (SPECIAL)	
56	1000000	FOR PLANT AND B. (SPECIAL)	
57	1000000	FOR PLANT AND B. (SPECIAL)	
58	1000000	FOR PLANT AND B. (SPECIAL)	
59	1000000	FOR PLANT AND B. (SPECIAL)	
60	1000000	FOR PLANT AND B. (SPECIAL)	
61	1000000	FOR PLANT AND B. (SPECIAL)	
62	1000000	FOR PLANT AND B. (SPECIAL)	
63	1000000	FOR PLANT AND B. (SPECIAL)	
64	1000000	FOR PLANT AND B. (SPECIAL)	
65	1000000	FOR PLANT AND B. (SPECIAL)	
66	1000000	FOR PLANT AND B. (SPECIAL)	
67	1000000	FOR PLANT AND B. (SPECIAL)	
68	1000000	FOR PLANT AND B. (SPECIAL)	
69	1000000	FOR PLANT AND B. (SPECIAL)	
70	1000000	FOR PLANT AND B. (SPECIAL)	
71	1000000	FOR PLANT AND B. (SPECIAL)	
72	1000000	FOR PLANT AND B. (SPECIAL)	
73	1000000	FOR PLANT AND B. (SPECIAL)	
74	1000000	FOR PLANT AND B. (SPECIAL)	
75	1000000	FOR PLANT AND B. (SPECIAL)	
76	1000000	FOR PLANT AND B. (SPECIAL)	
77	1000000	FOR PLANT AND B. (SPECIAL)	
78	1000000	FOR PLANT AND B. (SPECIAL)	
79	1000000	FOR PLANT AND B. (SPECIAL)	
80	1000000	FOR PLANT AND B. (SPECIAL)	
81	1000000	FOR PLANT AND B. (SPECIAL)	
82	1000000	FOR PLANT AND B. (SPECIAL)	
83	1000000	FOR PLANT AND B. (SPECIAL)	
84	1000000	FOR PLANT AND B. (SPECIAL)	
85	1000000	FOR PLANT AND B. (SPECIAL)	
86	1000000	FOR PLANT AND B. (SPECIAL)	
87	1000000	FOR PLANT AND B. (SPECIAL)	
88	1000000	FOR PLANT AND B. (SPECIAL)	
89	1000000	FOR PLANT AND B. (SPECIAL)	
90	1000000	FOR PLANT AND B. (SPECIAL)	
91	1000000	FOR PLANT AND B. (SPECIAL)	
92	1000000	FOR PLANT AND B. (SPECIAL)	
93	1000000	FOR PLANT AND B. (SPECIAL)	
94	1000000	FOR PLANT AND B. (SPECIAL)	
95	1000000	FOR PLANT AND B. (SPECIAL)	
96	1000000	FOR PLANT AND B. (SPECIAL)	
97	1000000	FOR PLANT AND B. (SPECIAL)	
98	1000000	FOR PLANT AND B. (SPECIAL)	
99	1000000	FOR PLANT AND B. (SPECIAL)	
100	1000000	FOR PLANT AND B. (SPECIAL)	

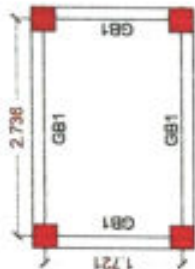
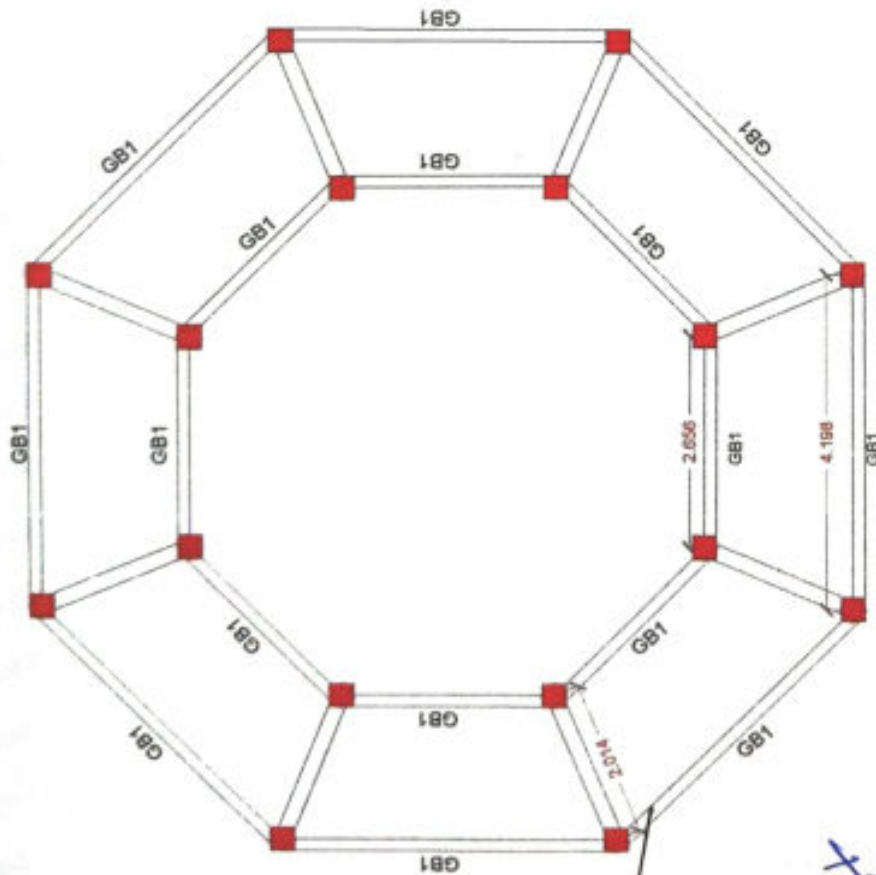


SCHEDULE OF COLUMNS			
SR. NO.	TYPES OF COLUMN	COLUMN SIZE (mm)	REINFORCEMENT
1.	C1 (12 nos.)	300x300	MAIN BAR- 4-12# STIRRUPS - 8# @ 150 MM C/C
2.	C2 (8 nos.)	300x300	MAIN BAR- 4-12# STIRRUPS - 8# @ 150 MM C/C

SCHEDULE OF FOOTINGS			
SR. NO.	TYPES OF FOOTING	FOOTING SIZE (mm)	REINFORCEMENT
1.	F1	1000x1000	MAIN BAR- 4-12# STIRRUPS - 8# @ 150 MM C/C
2.	F2	1000x1000	MAIN BAR- 4-12# STIRRUPS - 8# @ 150 MM C/C

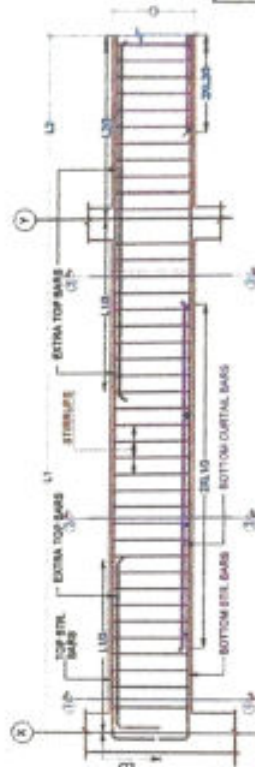
FOUNDATION PLAN
PROPOSED MUKTIDHAM NAGAR PANCHAYAT
SARGAON DIST. - BILASPUR, (C.G.)

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
& GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUVEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036743



CHABUTRA GROUND BEAM PLAN

CREMATORIUM GROUND BEAM PLAN



TYPICAL LONGITUDINAL SECTION OF CONTINUOUS BEAM

SCHEDULE OF GROUND BEAMS

S.NO.	TYPE OF GROUND BEAM	SIZE (W x D)	NO. OF BARS	TOP BARS	LEFT TO RIGHT OF BEAM	AT RINGS AT END OF BEAM	REMARKS
1.	GB1	200X300	3 x 12 #	3 x 12 #	3 x 12 #	3 x 12 #	REINFORCEMENT AT END OF BEAM

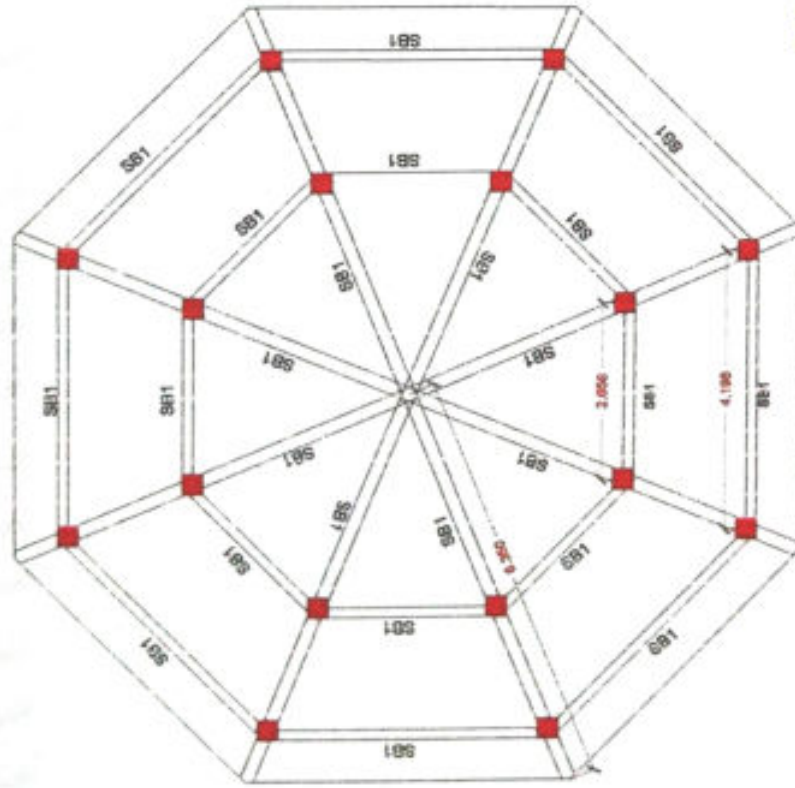
GROUND BEAM PLAN
PROPOSED MUKTIDHAM NAGAR PANCHAYAT SARGAON
DIST. - BILASPUR, (C.G.)

S.NO.	STANDARD	APPLICATION
1.	IS 456-2000	FOR FLAT AND REINFORCED CONCRETE
2.	IS 800-2007	FOR STEEL
3.	SP 34	FOR CONCRETE REINFORCEMENT & DETAILING
4.	IS 800	FOR OTHER STANDARDS

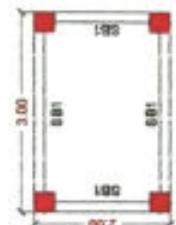
NOTES:
1. S.B.C OF SOIL CONSIDERED = 1.5 N/mm²
2. BALANCE IS DESIGNED FOR GROUND FLOOR ONLY
3. FORMULA, MEX FOR VARIOUS GRADES OF CONCRETE:
M15 - 1.34
M20 - 1.24
M25 - 1.153
M30 - 1.07
4. CLASH CHECK TO REINFORCEMENT:
BAR - 25 mm
STIRRUP - 8 mm
COLUMN - 40 mm
FOOTING - 50 mm
WALL - 60 mm
5. USE:
GRADE OF CONCRETE = M20
GRADE OF STEEL = FE415
STIRRUP TREATMENT SHOULD BE DONE AS PER BTE REQUIREMENT
7. CURING OF CONCRETE SHOULD BE DONE AS PER CLAUSE 15.5 OF CODE IS 456-2000
8. IN CASE OF BLACK COTTON SOIL, PROVIDE SAND BED BELOW THE FOUNDATION

S.NO.	TYPE OF FORMWORK	MINIMUM PERIOD BEFORE STRIKING FORMWORK
1.	VERTICAL FORMWORK TO COLUMN, WALL, SLAB	15-21 hrs
2.	SLAB FORMWORK TO SLAB	15 hrs
3.	SLAB FORMWORK TO BE STRUCK IMMEDIATELY AFTER REMOVAL OF FORMWORK	15 hrs
4.	FORM TO SLAB	15 hrs
5.	FORM TO SLAB AND ARCH	15 hrs
6.	FORM TO SLAB AND ARCH	15 hrs
7.	FORM TO SLAB AND ARCH	15 hrs
8.	FORM TO SLAB AND ARCH	15 hrs
9.	FORM TO SLAB AND ARCH	15 hrs
10.	FORM TO SLAB AND ARCH	15 hrs
11.	FORM TO SLAB AND ARCH	15 hrs
12.	FORM TO SLAB AND ARCH	15 hrs
13.	FORM TO SLAB AND ARCH	15 hrs
14.	FORM TO SLAB AND ARCH	15 hrs
15.	FORM TO SLAB AND ARCH	15 hrs
16.	FORM TO SLAB AND ARCH	15 hrs
17.	FORM TO SLAB AND ARCH	15 hrs
18.	FORM TO SLAB AND ARCH	15 hrs
19.	FORM TO SLAB AND ARCH	15 hrs
20.	FORM TO SLAB AND ARCH	15 hrs
21.	FORM TO SLAB AND ARCH	15 hrs
22.	FORM TO SLAB AND ARCH	15 hrs
23.	FORM TO SLAB AND ARCH	15 hrs
24.	FORM TO SLAB AND ARCH	15 hrs
25.	FORM TO SLAB AND ARCH	15 hrs
26.	FORM TO SLAB AND ARCH	15 hrs
27.	FORM TO SLAB AND ARCH	15 hrs
28.	FORM TO SLAB AND ARCH	15 hrs
29.	FORM TO SLAB AND ARCH	15 hrs
30.	FORM TO SLAB AND ARCH	15 hrs
31.	FORM TO SLAB AND ARCH	15 hrs
32.	FORM TO SLAB AND ARCH	15 hrs
33.	FORM TO SLAB AND ARCH	15 hrs
34.	FORM TO SLAB AND ARCH	15 hrs
35.	FORM TO SLAB AND ARCH	15 hrs
36.	FORM TO SLAB AND ARCH	15 hrs
37.	FORM TO SLAB AND ARCH	15 hrs
38.	FORM TO SLAB AND ARCH	15 hrs
39.	FORM TO SLAB AND ARCH	15 hrs
40.	FORM TO SLAB AND ARCH	15 hrs
41.	FORM TO SLAB AND ARCH	15 hrs
42.	FORM TO SLAB AND ARCH	15 hrs
43.	FORM TO SLAB AND ARCH	15 hrs
44.	FORM TO SLAB AND ARCH	15 hrs
45.	FORM TO SLAB AND ARCH	15 hrs
46.	FORM TO SLAB AND ARCH	15 hrs
47.	FORM TO SLAB AND ARCH	15 hrs
48.	FORM TO SLAB AND ARCH	15 hrs
49.	FORM TO SLAB AND ARCH	15 hrs
50.	FORM TO SLAB AND ARCH	15 hrs
51.	FORM TO SLAB AND ARCH	15 hrs
52.	FORM TO SLAB AND ARCH	15 hrs
53.	FORM TO SLAB AND ARCH	15 hrs
54.	FORM TO SLAB AND ARCH	15 hrs
55.	FORM TO SLAB AND ARCH	15 hrs
56.	FORM TO SLAB AND ARCH	15 hrs
57.	FORM TO SLAB AND ARCH	15 hrs
58.	FORM TO SLAB AND ARCH	15 hrs
59.	FORM TO SLAB AND ARCH	15 hrs
60.	FORM TO SLAB AND ARCH	15 hrs
61.	FORM TO SLAB AND ARCH	15 hrs
62.	FORM TO SLAB AND ARCH	15 hrs
63.	FORM TO SLAB AND ARCH	15 hrs
64.	FORM TO SLAB AND ARCH	15 hrs
65.	FORM TO SLAB AND ARCH	15 hrs
66.	FORM TO SLAB AND ARCH	15 hrs
67.	FORM TO SLAB AND ARCH	15 hrs
68.	FORM TO SLAB AND ARCH	15 hrs
69.	FORM TO SLAB AND ARCH	15 hrs
70.	FORM TO SLAB AND ARCH	15 hrs
71.	FORM TO SLAB AND ARCH	15 hrs
72.	FORM TO SLAB AND ARCH	15 hrs
73.	FORM TO SLAB AND ARCH	15 hrs
74.	FORM TO SLAB AND ARCH	15 hrs
75.	FORM TO SLAB AND ARCH	15 hrs
76.	FORM TO SLAB AND ARCH	15 hrs
77.	FORM TO SLAB AND ARCH	15 hrs
78.	FORM TO SLAB AND ARCH	15 hrs
79.	FORM TO SLAB AND ARCH	15 hrs
80.	FORM TO SLAB AND ARCH	15 hrs
81.	FORM TO SLAB AND ARCH	15 hrs
82.	FORM TO SLAB AND ARCH	15 hrs
83.	FORM TO SLAB AND ARCH	15 hrs
84.	FORM TO SLAB AND ARCH	15 hrs
85.	FORM TO SLAB AND ARCH	15 hrs
86.	FORM TO SLAB AND ARCH	15 hrs
87.	FORM TO SLAB AND ARCH	15 hrs
88.	FORM TO SLAB AND ARCH	15 hrs
89.	FORM TO SLAB AND ARCH	15 hrs
90.	FORM TO SLAB AND ARCH	15 hrs
91.	FORM TO SLAB AND ARCH	15 hrs
92.	FORM TO SLAB AND ARCH	15 hrs
93.	FORM TO SLAB AND ARCH	15 hrs
94.	FORM TO SLAB AND ARCH	15 hrs
95.	FORM TO SLAB AND ARCH	15 hrs
96.	FORM TO SLAB AND ARCH	15 hrs
97.	FORM TO SLAB AND ARCH	15 hrs
98.	FORM TO SLAB AND ARCH	15 hrs
99.	FORM TO SLAB AND ARCH	15 hrs
100.	FORM TO SLAB AND ARCH	15 hrs

TITLE	GROUND BEAM PLAN
SCALE	1:100
DATE	15/05/2024
DESIGNED BY	CHABUTRA
CHECKED BY	CHABUTRA
APPROVED BY	CHABUTRA
PROJECT	PROPOSED MUKTIDHAM NAGAR PANCHAYAT SARGAON DIST. - BILASPUR, (C.G.)
CLIENT	NAGAR PANCHAYAT SARGAON DIST. - BILASPUR, (C.G.)
DESIGNER	CHABUTRA
DATE	15/05/2024



**CREMATORIUM
SLAB BEAM PLAN**

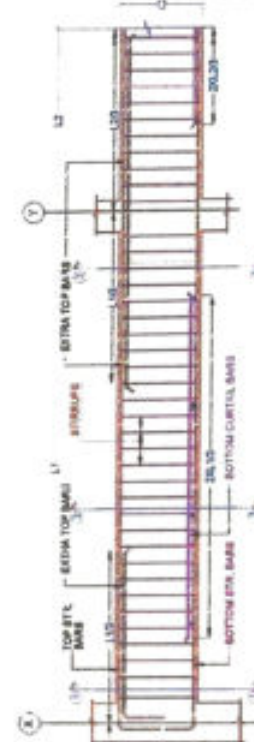


**CHABUTRA
SLAB BEAM PLAN**

Sam

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036748

SCHEDULE OF SLAB									
SLAB NO.	TYPE OF SLAB	THICKNESS (mm)	REINFORCEMENT (mm ²)	REINFORCEMENT (mm ²)	REINFORCEMENT (mm ²)	REINFORCEMENT (mm ²)	REINFORCEMENT (mm ²)	REINFORCEMENT (mm ²)	REINFORCEMENT (mm ²)
1	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
2	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
3	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
4	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
5	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
6	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
7	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
8	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
9	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
10	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
11	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000
12	CHABUTRA	150	1000	1000	1000	1000	1000	1000	1000



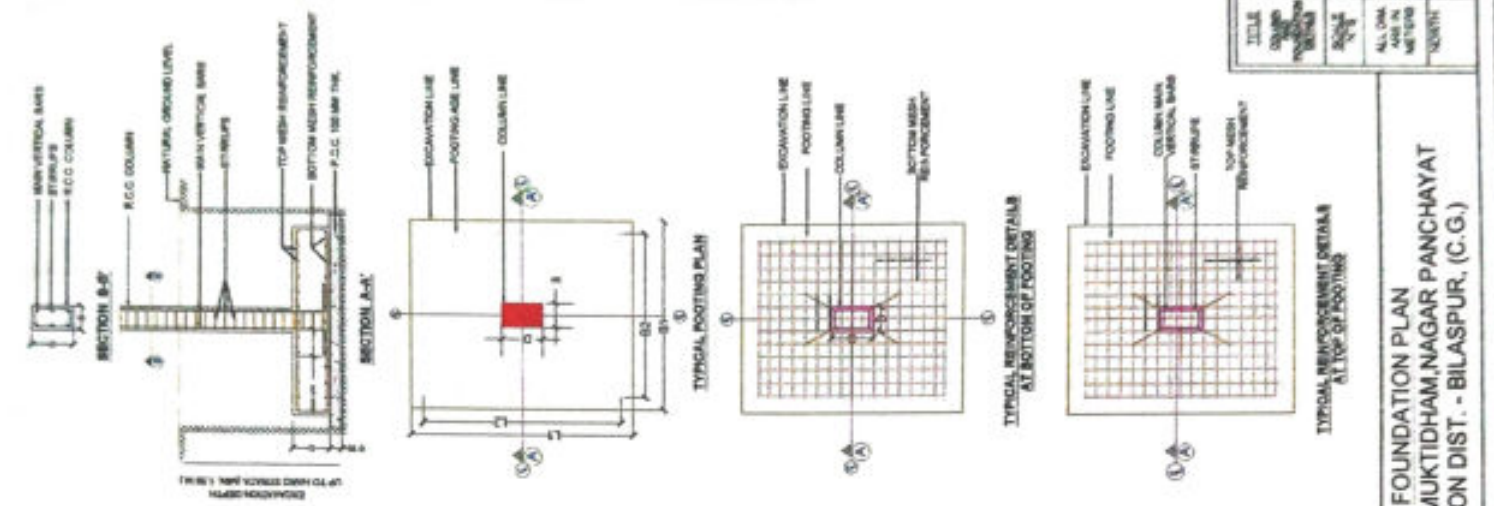
TYPICAL LONGITUDINAL SECTION OF CONTINUOUS BEAM

TITLE		PILLIWAR & ASSOCIATES	
SLAB BEAM DETAILS		ENGINEERS, ARCHITECTS, PLANNERS, GIS-CONSULTANTS, & GOVT. APPROVED VALUERS, 25, SOUTH AVENUE, CHOUBEY COLONY, RAIPUR (C.G.) ☎ (0771) 2255748, 4036748	
NO.	REVISION	DATE	BY
1	ISSUED FOR TENDER	10/01/2020	SAURAB KUMAR
2	FOR APPROVAL	10/01/2020	SAURAB KUMAR
3	FOR APPROVAL	10/01/2020	SAURAB KUMAR
4	FOR APPROVAL	10/01/2020	SAURAB KUMAR
5	FOR APPROVAL	10/01/2020	SAURAB KUMAR
6	FOR APPROVAL	10/01/2020	SAURAB KUMAR
7	FOR APPROVAL	10/01/2020	SAURAB KUMAR
8	FOR APPROVAL	10/01/2020	SAURAB KUMAR
9	FOR APPROVAL	10/01/2020	SAURAB KUMAR
10	FOR APPROVAL	10/01/2020	SAURAB KUMAR
11	FOR APPROVAL	10/01/2020	SAURAB KUMAR
12	FOR APPROVAL	10/01/2020	SAURAB KUMAR

REVISION		PILLIWAR & ASSOCIATES	
NO.	REVISION	DATE	BY
1	ISSUED FOR TENDER	10/01/2020	SAURAB KUMAR
2	FOR APPROVAL	10/01/2020	SAURAB KUMAR
3	FOR APPROVAL	10/01/2020	SAURAB KUMAR
4	FOR APPROVAL	10/01/2020	SAURAB KUMAR
5	FOR APPROVAL	10/01/2020	SAURAB KUMAR
6	FOR APPROVAL	10/01/2020	SAURAB KUMAR
7	FOR APPROVAL	10/01/2020	SAURAB KUMAR
8	FOR APPROVAL	10/01/2020	SAURAB KUMAR
9	FOR APPROVAL	10/01/2020	SAURAB KUMAR
10	FOR APPROVAL	10/01/2020	SAURAB KUMAR
11	FOR APPROVAL	10/01/2020	SAURAB KUMAR
12	FOR APPROVAL	10/01/2020	SAURAB KUMAR

REINFORCEMENT AND CODES USED			
REF	REINFORCEMENT	REINFORCEMENT	REINFORCEMENT
1	18 MM 200	FOR FLOOR AND REINFORCEMENT	CONCRETE
2	18 MM 200	FOR STEEL	DETAILS
3	18 MM 200	FOR CONCRETE REINFORCEMENT & DETAILS	
4	18 MM 200	FOR OTHER STANDARDS	

REMARKS
1. ALL OF REINFORCEMENT IS 18 MM 200
2. ALL OF REINFORCEMENT IS 18 MM 200
3. REINFORCEMENT IS 18 MM 200
4. REINFORCEMENT IS 18 MM 200
5. REINFORCEMENT IS 18 MM 200
6. REINFORCEMENT IS 18 MM 200
7. REINFORCEMENT IS 18 MM 200
8. REINFORCEMENT IS 18 MM 200
9. REINFORCEMENT IS 18 MM 200
10. REINFORCEMENT IS 18 MM 200
11. REINFORCEMENT IS 18 MM 200
12. REINFORCEMENT IS 18 MM 200
13. REINFORCEMENT IS 18 MM 200
14. REINFORCEMENT IS 18 MM 200
15. REINFORCEMENT IS 18 MM 200
16. REINFORCEMENT IS 18 MM 200
17. REINFORCEMENT IS 18 MM 200
18. REINFORCEMENT IS 18 MM 200
19. REINFORCEMENT IS 18 MM 200
20. REINFORCEMENT IS 18 MM 200
21. REINFORCEMENT IS 18 MM 200
22. REINFORCEMENT IS 18 MM 200
23. REINFORCEMENT IS 18 MM 200
24. REINFORCEMENT IS 18 MM 200
25. REINFORCEMENT IS 18 MM 200
26. REINFORCEMENT IS 18 MM 200
27. REINFORCEMENT IS 18 MM 200
28. REINFORCEMENT IS 18 MM 200
29. REINFORCEMENT IS 18 MM 200
30. REINFORCEMENT IS 18 MM 200
31. REINFORCEMENT IS 18 MM 200
32. REINFORCEMENT IS 18 MM 200
33. REINFORCEMENT IS 18 MM 200
34. REINFORCEMENT IS 18 MM 200
35. REINFORCEMENT IS 18 MM 200
36. REINFORCEMENT IS 18 MM 200
37. REINFORCEMENT IS 18 MM 200
38. REINFORCEMENT IS 18 MM 200
39. REINFORCEMENT IS 18 MM 200
40. REINFORCEMENT IS 18 MM 200
41. REINFORCEMENT IS 18 MM 200
42. REINFORCEMENT IS 18 MM 200
43. REINFORCEMENT IS 18 MM 200
44. REINFORCEMENT IS 18 MM 200
45. REINFORCEMENT IS 18 MM 200
46. REINFORCEMENT IS 18 MM 200
47. REINFORCEMENT IS 18 MM 200
48. REINFORCEMENT IS 18 MM 200
49. REINFORCEMENT IS 18 MM 200
50. REINFORCEMENT IS 18 MM 200
51. REINFORCEMENT IS 18 MM 200
52. REINFORCEMENT IS 18 MM 200
53. REINFORCEMENT IS 18 MM 200
54. REINFORCEMENT IS 18 MM 200
55. REINFORCEMENT IS 18 MM 200
56. REINFORCEMENT IS 18 MM 200
57. REINFORCEMENT IS 18 MM 200
58. REINFORCEMENT IS 18 MM 200
59. REINFORCEMENT IS 18 MM 200
60. REINFORCEMENT IS 18 MM 200
61. REINFORCEMENT IS 18 MM 200
62. REINFORCEMENT IS 18 MM 200
63. REINFORCEMENT IS 18 MM 200
64. REINFORCEMENT IS 18 MM 200
65. REINFORCEMENT IS 18 MM 200
66. REINFORCEMENT IS 18 MM 200
67. REINFORCEMENT IS 18 MM 200
68. REINFORCEMENT IS 18 MM 200
69. REINFORCEMENT IS 18 MM 200
70. REINFORCEMENT IS 18 MM 200
71. REINFORCEMENT IS 18 MM 200
72. REINFORCEMENT IS 18 MM 200
73. REINFORCEMENT IS 18 MM 200
74. REINFORCEMENT IS 18 MM 200
75. REINFORCEMENT IS 18 MM 200
76. REINFORCEMENT IS 18 MM 200
77. REINFORCEMENT IS 18 MM 200
78. REINFORCEMENT IS 18 MM 200
79. REINFORCEMENT IS 18 MM 200
80. REINFORCEMENT IS 18 MM 200
81. REINFORCEMENT IS 18 MM 200
82. REINFORCEMENT IS 18 MM 200
83. REINFORCEMENT IS 18 MM 200
84. REINFORCEMENT IS 18 MM 200
85. REINFORCEMENT IS 18 MM 200
86. REINFORCEMENT IS 18 MM 200
87. REINFORCEMENT IS 18 MM 200
88. REINFORCEMENT IS 18 MM 200
89. REINFORCEMENT IS 18 MM 200
90. REINFORCEMENT IS 18 MM 200
91. REINFORCEMENT IS 18 MM 200
92. REINFORCEMENT IS 18 MM 200
93. REINFORCEMENT IS 18 MM 200
94. REINFORCEMENT IS 18 MM 200
95. REINFORCEMENT IS 18 MM 200
96. REINFORCEMENT IS 18 MM 200
97. REINFORCEMENT IS 18 MM 200
98. REINFORCEMENT IS 18 MM 200
99. REINFORCEMENT IS 18 MM 200
100. REINFORCEMENT IS 18 MM 200



SCHEDULE OF COLUMNS			
SR NO	TYPES OF COLUMN	COLUMN SIZE (B X D)	REINFORCEMENT
1	C1 (10 nos.)	300X300 SQUARE	MAIN BAR- 6-12# STIRRUPS - 8# @ 150 MM C/C

SCHEDULE OF FOOTINGS			
SR NO	TYPES OF FOOTING	EXCAVATION SIZE (MM (FT))	FOOTING SIZE (MM (FT))
1	F1	1500X1500	1200X1200

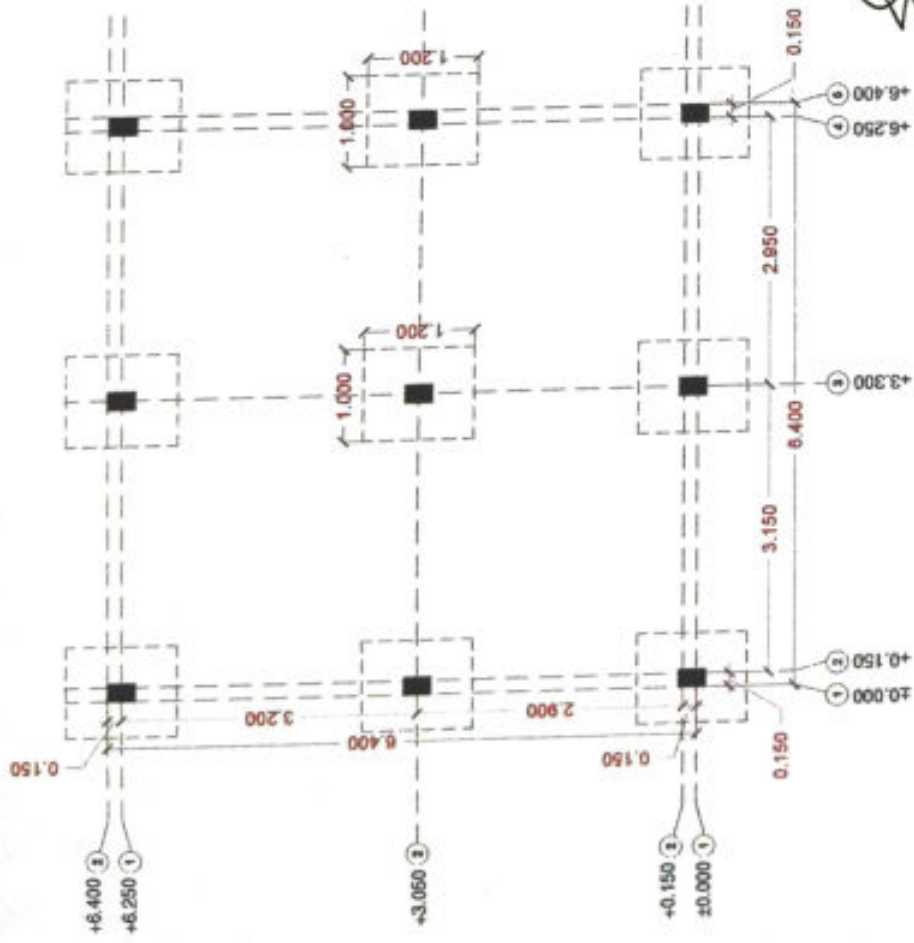
FOOTING REINFORCEMENT			
SR NO	TYPES OF FOOTING	EXCAVATION SIZE (MM (FT))	FOOTING SIZE (MM (FT))
1	F1	1500X1500	1200X1200

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036743

WAITING SHED
FOUNDATION PLAN

FOUNDATION PLAN
PROPOSED MUKTIDHAM, NAGAR PANCHAYAT
SARGAON DIST. - BILASPUR, (C.G.)

PILLIWAR & ASSOCIATES			
SR NO	TYPES OF COLUMN	COLUMN SIZE (B X D)	REINFORCEMENT
1	C1 (10 nos.)	300X300 SQUARE	MAIN BAR- 6-12# STIRRUPS - 8# @ 150 MM C/C



STAFF QUARTER FOUNDATION PLAN

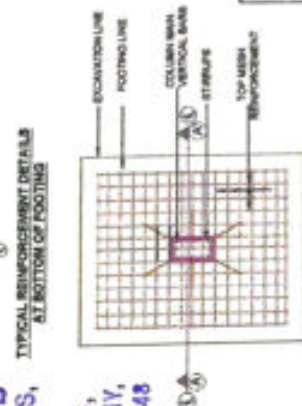
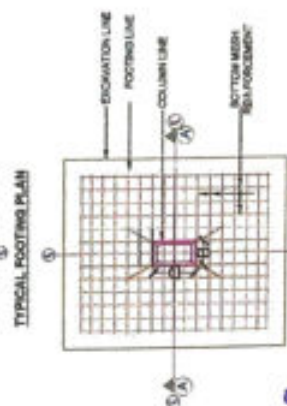
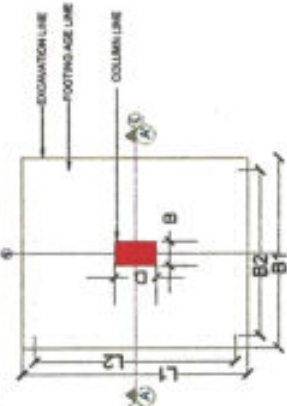
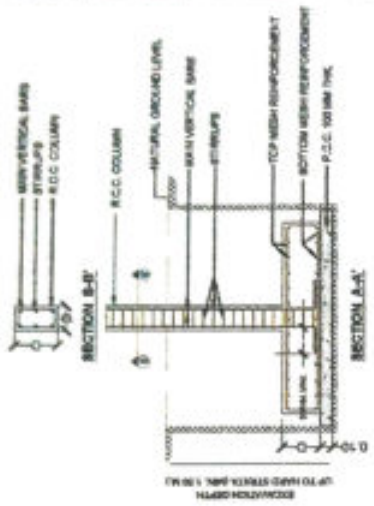
PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOWBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4035748

SCHEDULE OF COLUMNS

SR NO	TYPE OF COLUMN	COLUMN (BBOX)	RING PATTERN	SIZE (H MM) (B X D)	REINFORCEMENT
1.	C1 (B 166.1)			200X300 SQUARE	MAIN BAR- 8-12# STIRRUPS - #8 @ 150 MM C/C

SCHEDULE OF FOOTINGS

SR NO	TYPE OF FOOTING	FOOTING SIZE (MM (B X L))	FOOTING THICKNESS (MM (D))	FOOTING REINFORCEMENT
1.	F1	1000X1200	300	FOOTING REINFORCEMENT BOTTOM REINFORCEMENT SHORT DIRECTION LONG DIRECTION 10# @ 150 MM C/C 10# @ 150 MM C/C



SR NO	REINFORCEMENT	REMARKS
1.	10# @ 200	FOR PLAN AND REINFORCEMENT
2.	10# @ 200	FOR STEEL
3.	10# @ 200	FOR CONCRETE REINFORCEMENT & DETAILING
4.	10# @ 200	FOR OTHER STANDARDS

NOTES:
1. S.B.C OF SO L. CONSIDERED = 100 N/mm².
2. REINFORCEMENT IS DESIGNED FOR GRADED FLOOR ONLY.
3. REINFORCEMENT IS DESIGNED FOR GRADED FLOOR ONLY.
4. REINFORCEMENT IS DESIGNED FOR GRADED FLOOR ONLY.
5. REINFORCEMENT IS DESIGNED FOR GRADED FLOOR ONLY.
6. REINFORCEMENT IS DESIGNED FOR GRADED FLOOR ONLY.
7. REINFORCEMENT IS DESIGNED FOR GRADED FLOOR ONLY.
8. REINFORCEMENT IS DESIGNED FOR GRADED FLOOR ONLY.
9. REINFORCEMENT IS DESIGNED FOR GRADED FLOOR ONLY.
10. REINFORCEMENT IS DESIGNED FOR GRADED FLOOR ONLY.

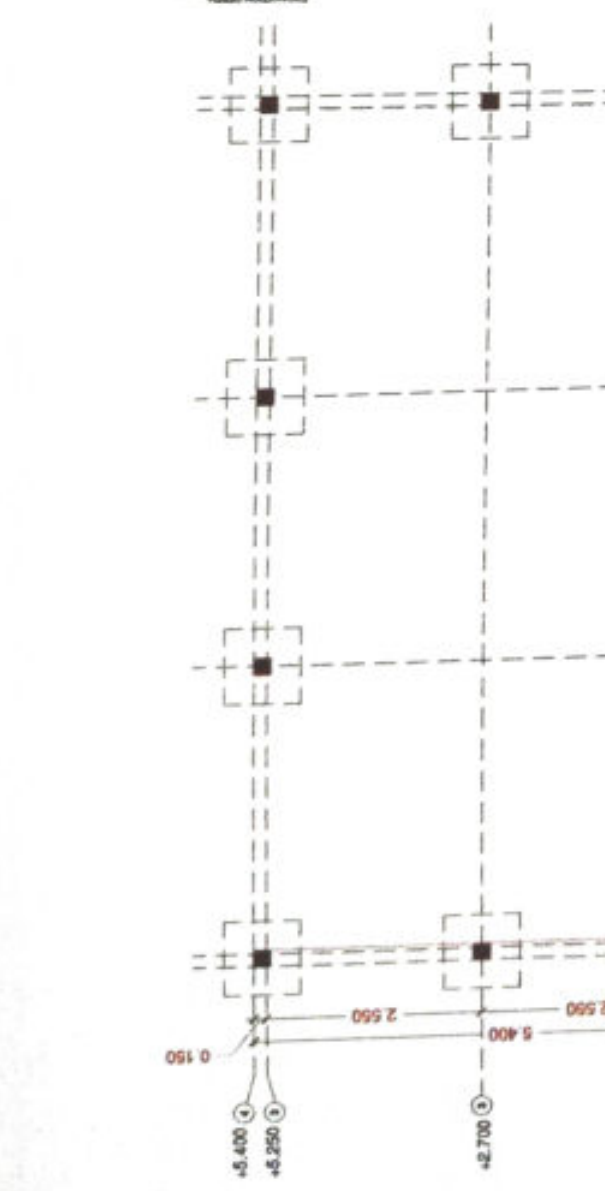
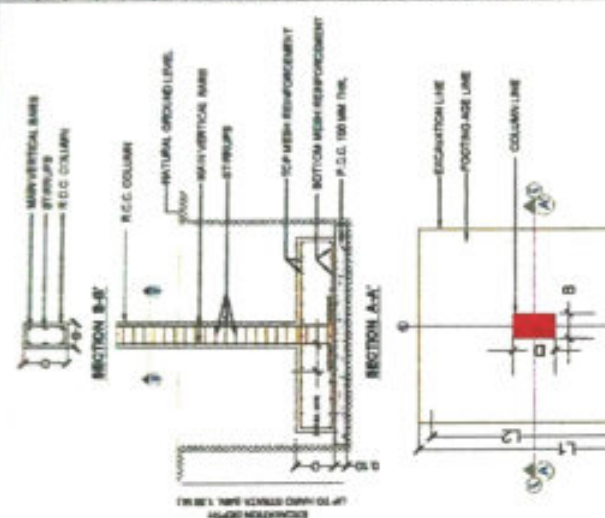
SR NO	TYPE OF FORMWORK	REMARKS
1.	VERTICAL FORMWORK TO COLUMN, WALL, SLAB	10# @ 200
2.	SLAB FORMWORK TO SLAB	10# @ 200
3.	SLAB FORMWORK TO SLAB	10# @ 200
4.	SLAB FORMWORK TO SLAB	10# @ 200
5.	SLAB FORMWORK TO SLAB	10# @ 200

SR NO	TYPE OF FORMWORK	REMARKS
1.	VERTICAL FORMWORK TO COLUMN, WALL, SLAB	10# @ 200
2.	SLAB FORMWORK TO SLAB	10# @ 200
3.	SLAB FORMWORK TO SLAB	10# @ 200
4.	SLAB FORMWORK TO SLAB	10# @ 200
5.	SLAB FORMWORK TO SLAB	10# @ 200

FOUNDATION PLAN
PROPOSED MUKTIDHAM, NAGAR PANCHAYAT
SARGAON DIST. - BILASPUR, (C.G.)

Signature

ISIRI STANDARDS AND CODES USED	
S NO	SPECIFICATION
1	IS 456-2000 FOR REINFORCED CONCRETE
2	IS 800-2007 FOR STEEL
3	SP 34 FOR CONCRETE REINFORCEMENT DETAILS
4	IS 800-2007 FOR OTHER STANDARDS



S NO	TYPE OF FORMWORK	MINIMUM PERIOD BEFORE STRIKING FORMWORK
1	VERTICAL FORMWORK TO COLUMN, WALL, SLAB	16-24 hrs
2	SOFT FORMWORK TO SLAB	3 days
3	SOFT FORMWORK TO REINFORCEMENT	7 days
4	SOFT FORMWORK TO REINFORCEMENT	7 days
5	SOFT FORMWORK TO REINFORCEMENT	7 days

S NO	TYPE OF FORMWORK	MINIMUM PERIOD BEFORE STRIKING FORMWORK
1	VERTICAL FORMWORK TO COLUMN, WALL, SLAB	16-24 hrs
2	SOFT FORMWORK TO SLAB	3 days
3	SOFT FORMWORK TO REINFORCEMENT	7 days
4	SOFT FORMWORK TO REINFORCEMENT	7 days
5	SOFT FORMWORK TO REINFORCEMENT	7 days

S NO	TYPE OF FORMWORK	MINIMUM PERIOD BEFORE STRIKING FORMWORK
1	VERTICAL FORMWORK TO COLUMN, WALL, SLAB	16-24 hrs
2	SOFT FORMWORK TO SLAB	3 days
3	SOFT FORMWORK TO REINFORCEMENT	7 days
4	SOFT FORMWORK TO REINFORCEMENT	7 days
5	SOFT FORMWORK TO REINFORCEMENT	7 days

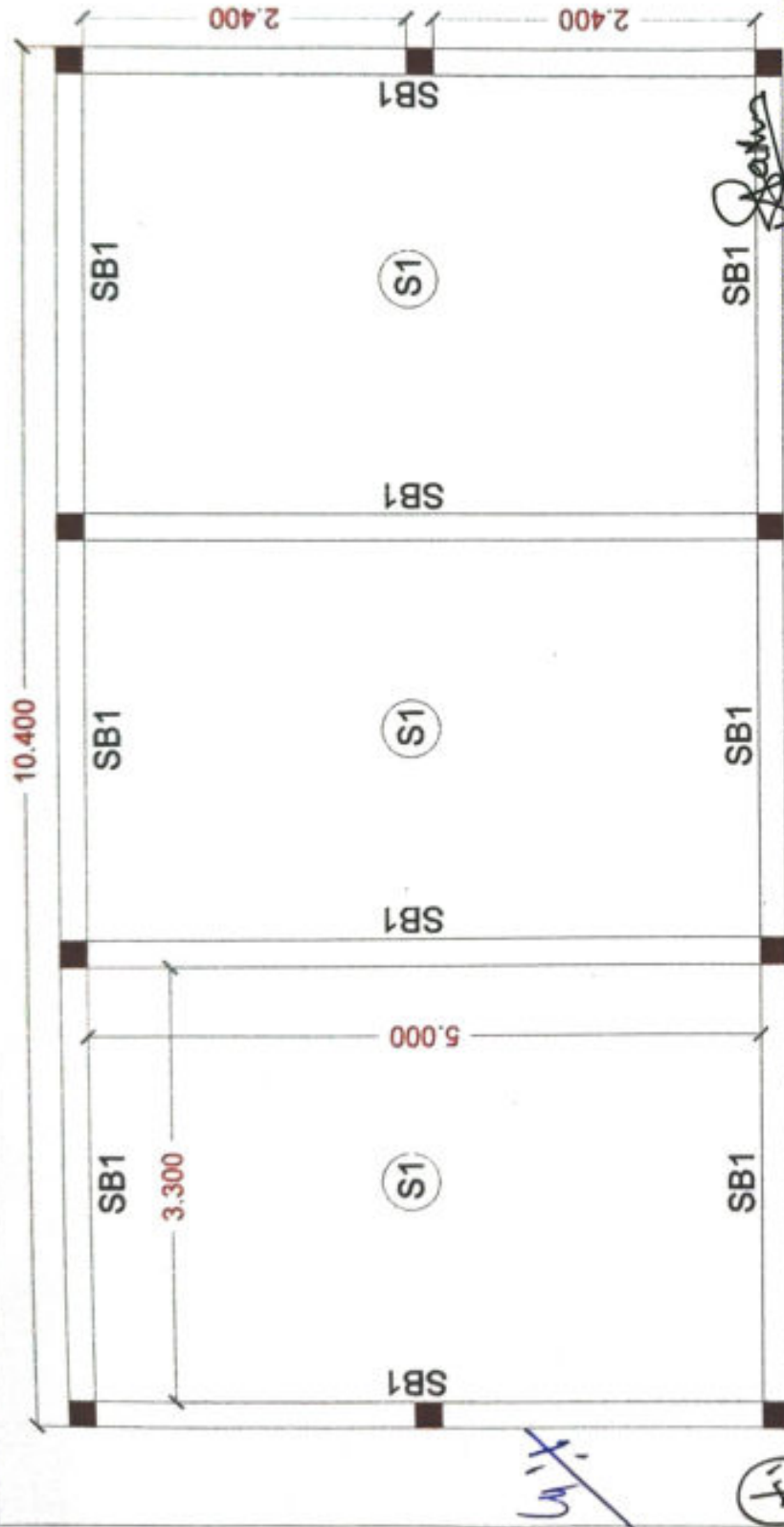
PILLIWAR & ASSOCIATES	
NAME	DR. PILLIWAR & ASSOCIATES
ADDRESS	25, SOUTH AVENUE, CHOUBEY COLONY, RAIPUR (C.G.)
PHONE	07711 2255748, 4086748
EMAIL	pilliwara@gmail.com
CLIENT	PROPOSED MUKTIDHAM NAGAR PANCHAYAT
PROJECT	PROPOSED MUKTIDHAM NAGAR PANCHAYAT
DESIGNED BY	DR. PILLIWAR
CHECKED BY	DR. PILLIWAR
DATE	20/08/2024

PILLIWAR & ASSOCIATES	
NAME	DR. PILLIWAR & ASSOCIATES
ADDRESS	25, SOUTH AVENUE, CHOUBEY COLONY, RAIPUR (C.G.)
PHONE	07711 2255748, 4086748
EMAIL	pilliwara@gmail.com
CLIENT	PROPOSED MUKTIDHAM NAGAR PANCHAYAT
PROJECT	PROPOSED MUKTIDHAM NAGAR PANCHAYAT
DESIGNED BY	DR. PILLIWAR
CHECKED BY	DR. PILLIWAR
DATE	20/08/2024

PILLIWAR & ASSOCIATES	
NAME	DR. PILLIWAR & ASSOCIATES
ADDRESS	25, SOUTH AVENUE, CHOUBEY COLONY, RAIPUR (C.G.)
PHONE	07711 2255748, 4086748
EMAIL	pilliwara@gmail.com
CLIENT	PROPOSED MUKTIDHAM NAGAR PANCHAYAT
PROJECT	PROPOSED MUKTIDHAM NAGAR PANCHAYAT
DESIGNED BY	DR. PILLIWAR
CHECKED BY	DR. PILLIWAR
DATE	20/08/2024

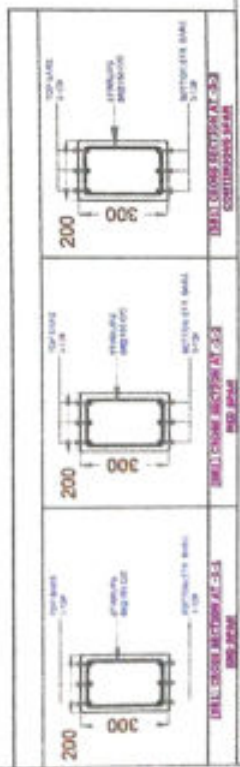
PILLIWAR & ASSOCIATES	
NAME	DR. PILLIWAR & ASSOCIATES
ADDRESS	25, SOUTH AVENUE, CHOUBEY COLONY, RAIPUR (C.G.)
PHONE	07711 2255748, 4086748
EMAIL	pilliwara@gmail.com
CLIENT	PROPOSED MUKTIDHAM NAGAR PANCHAYAT
PROJECT	PROPOSED MUKTIDHAM NAGAR PANCHAYAT
DESIGNED BY	DR. PILLIWAR
CHECKED BY	DR. PILLIWAR
DATE	20/08/2024

10.400



WOOD STORAGE ROOM SLAB BEAM PLAN

PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUBEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255743, 433674*



SCHEDULE OF SLAB BEAMS			
S.NO.	TYPE OF SLAB BEAM	SIZE (mm)	REMARK
1	SB1	200/300	3 x 12 #
SCHEDULE OF END STIRRUPS			
S.NO.	TYPE OF SLAB BEAM	SIZE (mm)	REMARK
1	SB1	200/300	3 x 12 #

SLAB BEAM PLAN PROPOSED MUKTIDHAM, NAGAR PANCHAYAT SARGAON DIST. - BILASPUR, (C.G.)

REIN. STANDARDS AND CODES USED	
S.NO.	REIN. STANDARDS
1	IS 456-2000 FOR FURTHER AND REINFORCED CONCRETE
2	IS 800-2007 FOR STEEL
3	SP 34 FOR CONCRETE REINFORCEMENT & DETAILS
4	IS 800-2007 FOR OTHER STANDARDS

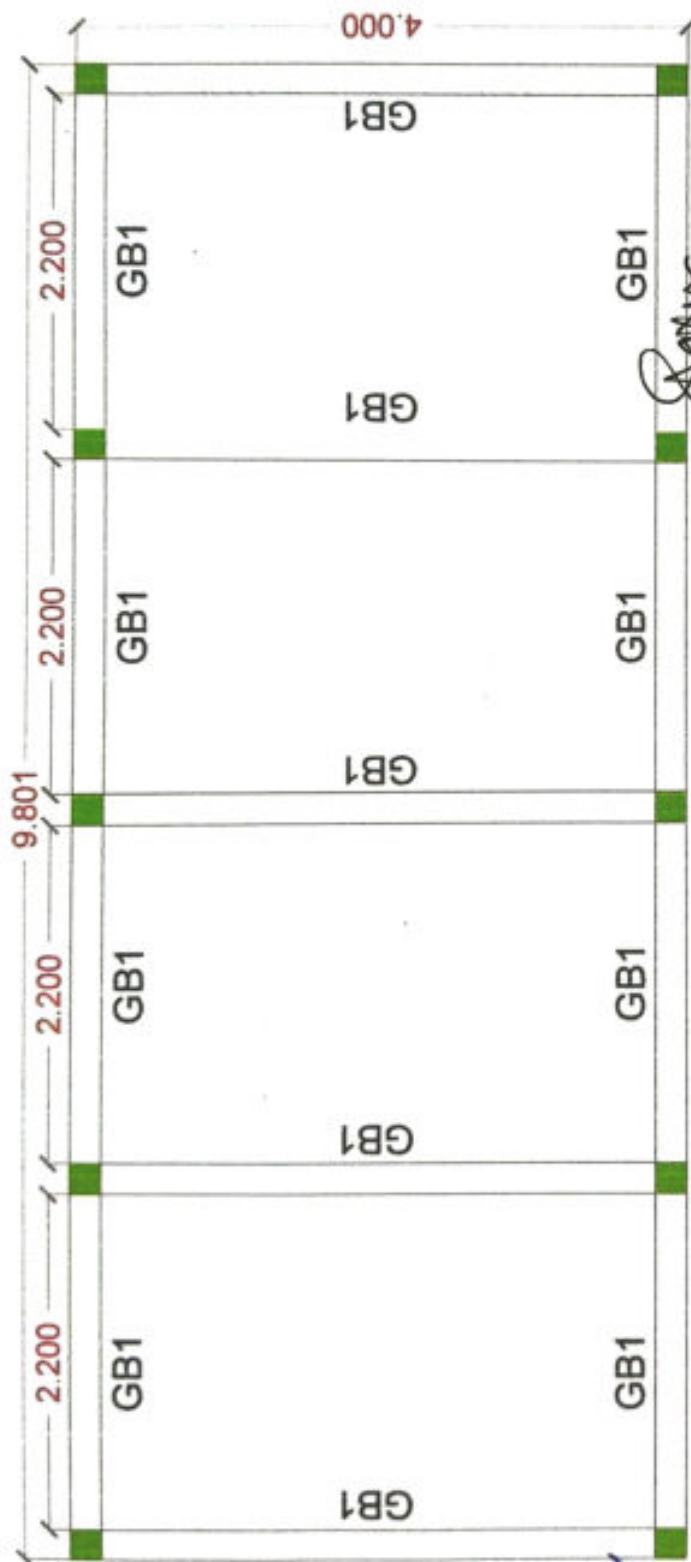
NOTES:
1. S.B.C OF 80% CONSIDERED + 10% IMP.
2. BUILDING IS DESIGNED FOR GROUND FLOOR ONLY.
3. NOMINAL MIX FOR VARIOUS GRADES OF CONCRETE
M15 - 1:2:4
M20 - 1:1.5:3
M25 - 1:1:2
4. CLEAR COVER TO REINFORCEMENT:
SLAB - 25 mm
BEAM - 35 mm
COLUMN - 45 mm
FOOTING - 50 mm
WALL - 40 mm
5. USE:
GRADE OF CONCRETE = M20
GRADE OF STEEL = FE 415
STORM TREATMENT SHOULD BE DONE AS PER IS 777
REQUIREMENT
7. CURING OF CONCRETE SHOULD BE DONE AS PER CLAUSE 13.5
OF CODE IS 456:2000
8. IN CASE OF BLACK COTTON SOIL PROVIDE 50MM BED BELOW
THE FOUNDATION

S.NO.	TYPE OF FOUNDATION	MINIMUM PERCENT BEFORE STRENGTH FOUNDATION
1.	VERTICAL FOUNDATION TO COLUMN, WALL, BEAM	15-20 mm
2.	SUPPORT FOUNDATION TO SLAB	25 mm
3.	PREPARE TO BE REMOVED IMMEDIATELY AFTER RECEIVING OF FOUNDATION	15 mm
4.	PREPARE TO BE REMOVED IMMEDIATELY AFTER RECEIVING OF FOUNDATION	15 mm
5.	PREPARE TO BE REMOVED IMMEDIATELY AFTER RECEIVING OF FOUNDATION	15 mm

REIN. STANDARDS AND CODES USED	
S.NO.	REIN. STANDARDS
1	IS 456-2000 FOR FURTHER AND REINFORCED CONCRETE
2	IS 800-2007 FOR STEEL
3	SP 34 FOR CONCRETE REINFORCEMENT & DETAILS
4	IS 800-2007 FOR OTHER STANDARDS

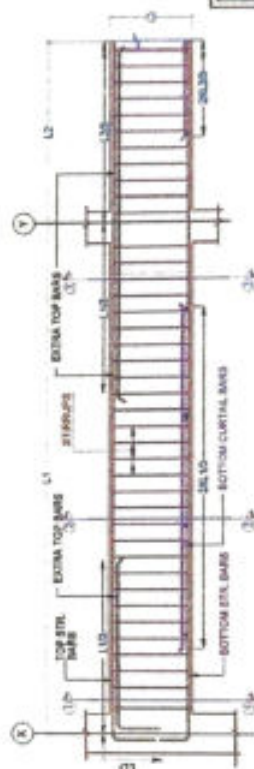
PILLIWAR & ASSOCIATES	
NAME	SLAB BEAM PLAN
PROJECT	PROPOSED MUKTIDHAM, NAGAR PANCHAYAT
DESIGNED BY	DR. PILLIWAR & ASSOCIATES
CHECKED BY	DR. PILLIWAR & ASSOCIATES
DATE	20/08/2020

FORM STANDARDS AND CODES USED			
8.102	STANDARD	SPECIFICATION	
1	18.000-2000	FOR PLAIN AND REINFORCED CONCRETE	
2	18.000-2007	FOR STEEL	
3	SP-34	FOR CONCRETE REINFORCEMENT & DETAILING	
4	118.0	FOR OTHER STANDARDS	
<p>NOTES:</p> <p>1. ALL C OF 90 L CONCRETE = 15 MPa.</p> <p>2. SLABING IS DESIGNED FOR GROUND FLOOR ONLY.</p> <p>3. NOMINAL MIX FOR VARIOUS GRADE OF CONCRETE.</p> <p>4. W/F: 1:3:6</p> <p>5. W/F: 1:2:4</p> <p>6. W/F: 1:1:1.5</p> <p>7. W/F: 1:1:2</p> <p>8. W/F: 1:1:2</p> <p>9. W/F: 1:1:2</p> <p>10. W/F: 1:1:2</p> <p>11. W/F: 1:1:2</p> <p>12. W/F: 1:1:2</p> <p>13. W/F: 1:1:2</p> <p>14. W/F: 1:1:2</p> <p>15. W/F: 1:1:2</p> <p>16. W/F: 1:1:2</p> <p>17. W/F: 1:1:2</p> <p>18. W/F: 1:1:2</p> <p>19. W/F: 1:1:2</p> <p>20. W/F: 1:1:2</p> <p>21. W/F: 1:1:2</p> <p>22. W/F: 1:1:2</p> <p>23. W/F: 1:1:2</p> <p>24. W/F: 1:1:2</p> <p>25. W/F: 1:1:2</p> <p>26. W/F: 1:1:2</p> <p>27. W/F: 1:1:2</p> <p>28. W/F: 1:1:2</p> <p>29. W/F: 1:1:2</p> <p>30. W/F: 1:1:2</p> <p>31. W/F: 1:1:2</p> <p>32. W/F: 1:1:2</p> <p>33. W/F: 1:1:2</p> <p>34. W/F: 1:1:2</p> <p>35. W/F: 1:1:2</p> <p>36. W/F: 1:1:2</p> <p>37. W/F: 1:1:2</p> <p>38. W/F: 1:1:2</p> <p>39. W/F: 1:1:2</p> <p>40. W/F: 1:1:2</p> <p>41. W/F: 1:1:2</p> <p>42. W/F: 1:1:2</p> <p>43. W/F: 1:1:2</p> <p>44. W/F: 1:1:2</p> <p>45. W/F: 1:1:2</p> <p>46. W/F: 1:1:2</p> <p>47. W/F: 1:1:2</p> <p>48. W/F: 1:1:2</p> <p>49. W/F: 1:1:2</p> <p>50. W/F: 1:1:2</p> <p>51. W/F: 1:1:2</p> <p>52. W/F: 1:1:2</p> <p>53. W/F: 1:1:2</p> <p>54. W/F: 1:1:2</p> <p>55. W/F: 1:1:2</p> <p>56. W/F: 1:1:2</p> <p>57. W/F: 1:1:2</p> <p>58. W/F: 1:1:2</p> <p>59. W/F: 1:1:2</p> <p>60. W/F: 1:1:2</p> <p>61. W/F: 1:1:2</p> <p>62. W/F: 1:1:2</p> <p>63. W/F: 1:1:2</p> <p>64. W/F: 1:1:2</p> <p>65. W/F: 1:1:2</p> <p>66. W/F: 1:1:2</p> <p>67. W/F: 1:1:2</p> <p>68. W/F: 1:1:2</p> <p>69. W/F: 1:1:2</p> <p>70. W/F: 1:1:2</p> <p>71. W/F: 1:1:2</p> <p>72. W/F: 1:1:2</p> <p>73. W/F: 1:1:2</p> <p>74. W/F: 1:1:2</p> <p>75. W/F: 1:1:2</p> <p>76. W/F: 1:1:2</p> <p>77. W/F: 1:1:2</p> <p>78. W/F: 1:1:2</p> <p>79. W/F: 1:1:2</p> <p>80. W/F: 1:1:2</p> <p>81. W/F: 1:1:2</p> <p>82. W/F: 1:1:2</p> <p>83. W/F: 1:1:2</p> <p>84. W/F: 1:1:2</p> <p>85. W/F: 1:1:2</p> <p>86. W/F: 1:1:2</p> <p>87. W/F: 1:1:2</p> <p>88. W/F: 1:1:2</p> <p>89. W/F: 1:1:2</p> <p>90. W/F: 1:1:2</p> <p>91. W/F: 1:1:2</p> <p>92. W/F: 1:1:2</p> <p>93. W/F: 1:1:2</p> <p>94. W/F: 1:1:2</p> <p>95. W/F: 1:1:2</p> <p>96. W/F: 1:1:2</p> <p>97. W/F: 1:1:2</p> <p>98. W/F: 1:1:2</p> <p>99. W/F: 1:1:2</p> <p>100. W/F: 1:1:2</p>			

[illegible]

PILLIWA & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS,
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUDEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255748, 4036743

TOILET BLOCK
GROUND BEAM PLAN



TYPICAL LONGITUDINAL SECTION OF CONTINUOUS BEAM

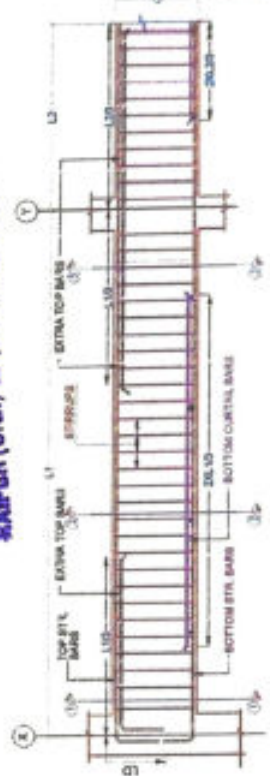
S.N.O.	TYPES OF GROUND BEAMS	SIZE AND NO. OF REINFORCING BARS (FOOTBALLS) IN MM	MID SPAN MAIN BARS BOTTOM RAISE BOTTOMS CURT THROUGHOUT BARS & REINFORCING BARS	TOP BARS LEFT OF BEAM	EXTRA TOP BARS TO SUPPORT UP AT RIGHT OF BEAM	STAIRWAYS AT ENDS OF GROUND BEAM
1.	CHU	3 x 12 #	2000x600	3 x 12 #	RIGHT OF BEAM	STAIRWAYS AT ENDS OF GROUND BEAM (EACH END 1.4M)

REMARKS		REMARKS
1. 1000	1000	1000
2. 1000	1000	1000
3. 1000	1000	1000
4. 1000	1000	1000
5. 1000	1000	1000
6. 1000	1000	1000
7. 1000	1000	1000
8. 1000	1000	1000
9. 1000	1000	1000
10. 1000	1000	1000
11. 1000	1000	1000
12. 1000	1000	1000
13. 1000	1000	1000
14. 1000	1000	1000
15. 1000	1000	1000
16. 1000	1000	1000
17. 1000	1000	1000
18. 1000	1000	1000
19. 1000	1000	1000
20. 1000	1000	1000
21. 1000	1000	1000
22. 1000	1000	1000
23. 1000	1000	1000
24. 1000	1000	1000
25. 1000	1000	1000
26. 1000	1000	1000
27. 1000	1000	1000
28. 1000	1000	1000
29. 1000	1000	1000
30. 1000	1000	1000
31. 1000	1000	1000
32. 1000	1000	1000
33. 1000	1000	1000
34. 1000	1000	1000
35. 1000	1000	1000
36. 1000	1000	1000
37. 1000	1000	1000
38. 1000	1000	1000
39. 1000	1000	1000
40. 1000	1000	1000
41. 1000	1000	1000
42. 1000	1000	1000
43. 1000	1000	1000
44. 1000	1000	1000
45. 1000	1000	1000
46. 1000	1000	1000
47. 1000	1000	1000
48. 1000	1000	1000
49. 1000	1000	1000
50. 1000	1000	1000
51. 1000	1000	1000
52. 1000	1000	1000
53. 1000	1000	1000
54. 1000	1000	1000
55. 1000	1000	1000
56. 1000	1000	1000
57. 1000	1000	1000
58. 1000	1000	1000
59. 1000	1000	1000
60. 1000	1000	1000
61. 1000	1000	1000
62. 1000	1000	1000
63. 1000	1000	1000
64. 1000	1000	1000
65. 1000	1000	1000
66. 1000	1000	1000
67. 1000	1000	1000
68. 1000	1000	1000
69. 1000	1000	1000
70. 1000	1000	1000
71. 1000	1000	1000
72. 1000	1000	1000
73. 1000	1000	1000
74. 1000	1000	1000
75. 1000	1000	1000
76. 1000	1000	1000
77. 1000	1000	1000
78. 1000	1000	1000
79. 1000	1000	1000
80. 1000	1000	1000
81. 1000	1000	1000
82. 1000	1000	1000
83. 1000	1000	1000
84. 1000	1000	1000
85. 1000	1000	1000
86. 1000	1000	1000
87. 1000	1000	1000
88. 1000	1000	1000
89. 1000	1000	1000
90. 1000	1000	1000
91. 1000	1000	1000
92. 1000	1000	1000
93. 1000	1000	1000
94. 1000	1000	1000
95. 1000	1000	1000
96. 1000	1000	1000
97. 1000	1000	1000
98. 1000	1000	1000
99. 1000	1000	1000
100. 1000	1000	1000



PILLIWAR & ASSOCIATES
 ENGINEERS, ARCHITECTS, PLANNERS,
 GIS-CONSULTANTS,
 & GOVT. APPROVED VALUERS,
 25, SOUTH AVENUE, CHOLUVEY COLONY,
 RAIPUR (C.G.) ☎ (0771) 2255748, 4036743

**TOILET BLOCK
 SLAB BEAM PLAN**



SLAB THICKNESS (MM)	REINFORCEMENT ALONG SHORTER SPAN (mm)	REINFORCEMENT ALONG LONGER SPAN (mm)	REMARK
100	100	100	100
150	150	150	150
200	200	200	200
250	250	250	250
300	300	300	300
350	350	350	350
400	400	400	400
450	450	450	450
500	500	500	500
550	550	550	550
600	600	600	600
650	650	650	650
700	700	700	700
750	750	750	750
800	800	800	800
850	850	850	850
900	900	900	900
950	950	950	950
1000	1000	1000	1000

SCHEDULE OF SLAB BEAMS			
SLAB NO.	THICKNESS (MM)	REINFORCEMENT ALONG SHORTER SPAN (mm)	REINFORCEMENT ALONG LONGER SPAN (mm)
1	100	100	100
2	150	150	150
3	200	200	200
4	250	250	250
5	300	300	300
6	350	350	350
7	400	400	400
8	450	450	450
9	500	500	500
10	550	550	550
11	600	600	600
12	650	650	650
13	700	700	700
14	750	750	750
15	800	800	800
16	850	850	850
17	900	900	900
18	950	950	950
19	1000	1000	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

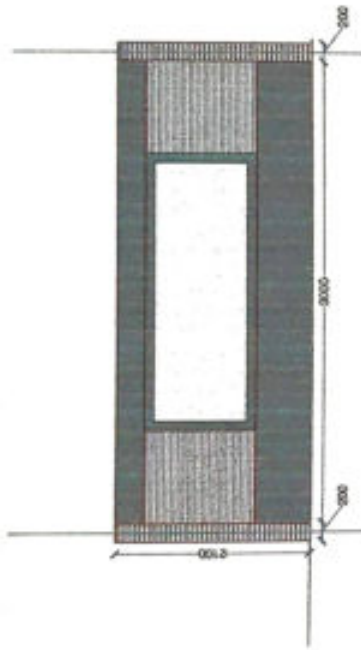
ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

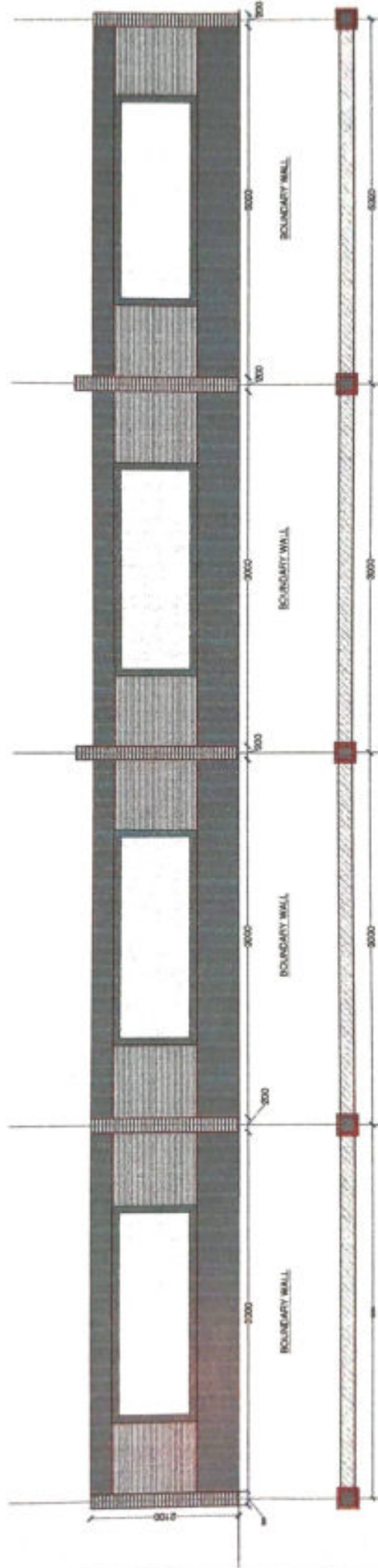
ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

ITEM	DETAILS
1	100
2	150
3	200
4	250
5	300
6	350
7	400
8	450
9	500
10	550
11	600
12	650
13	700
14	750
15	800
16	850
17	900
18	950
19	1000

LONG	REMARKS
LONG	LONG



BOUNDARY WALL



LAYOUT MODULE

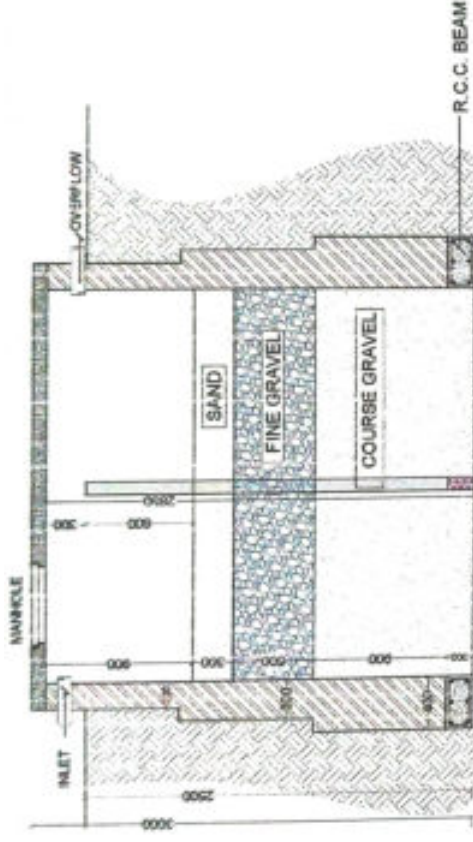
Signature
PILLIWAR & ASSOCIATES
 ENGINEERS, ARCHITECTS, PLANNERS,
 GIS-CONSULTANTS,
 & GOVT. APPROVED VALUERS,
 25, SOUTH AVENUE, CHOUBEY COLONY,
 RAIPUR (C.G.) ☎ (0771) 2255749, 4035749

Signature
 उप अभियंता
 नगर पंचायत सरगांव
 जिला-मुंगेली (छ.ग.)

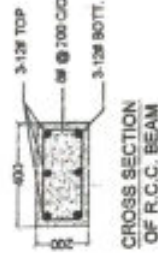
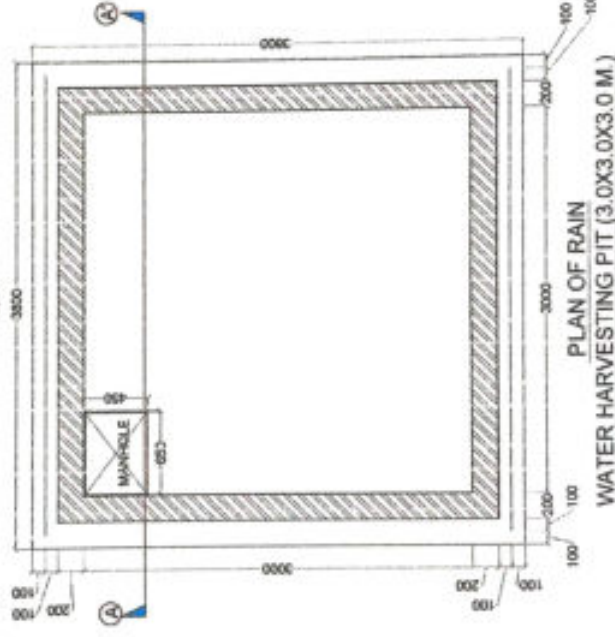
Signature
 मुख्य नगर-जिल्हा अधिकारी
 नगर पंचायत सरगांव
 जिला-मुंगेली (छ.ग.)

TITLE	PILLIWAR & ASSOCIATES ENGINEERS, ARCHITECTS, PLANNERS, GIS-CONSULTANTS & GOVT. APPROVED VALUERS, 25, SOUTH AVENUE, CHOUBEY COLONY, RAIPUR (C.G.) ☎ (0771) 2255749, 4035749		
SCALE	DWG PATH	SHEET NO	NO. OF SHEETS
N.T.S.	CLIENT	NAGAR PANCHAYAT SARGAON	
DESIGNER	PROJECT	MUKTIDHAM, NAGAR PANCHAYAT SARGAON DIST - BILASPUR, (C.G.)	
ALL DIM ARE IN MM	DESIGNED BY	CHKD BY	DATE
	MADEH PILLIWAR	ADY SHYU	20/05/2022

MUKTIDHAM, NAGAR PANCHAYAT SARGAON DIST.- BILASPUR, (C.G.)



SECTION AT A-A'



CROSS SECTION OF R.C.C. BEAM

TITLE	PILLIWAR & ASSOCIATES
SCALE	NOT TO SCALE
ALL DIM. ARE IN METERS	DATE
NORTH	DESIGNED BY
	DRAWN BY
	CHECKED BY
	DATE

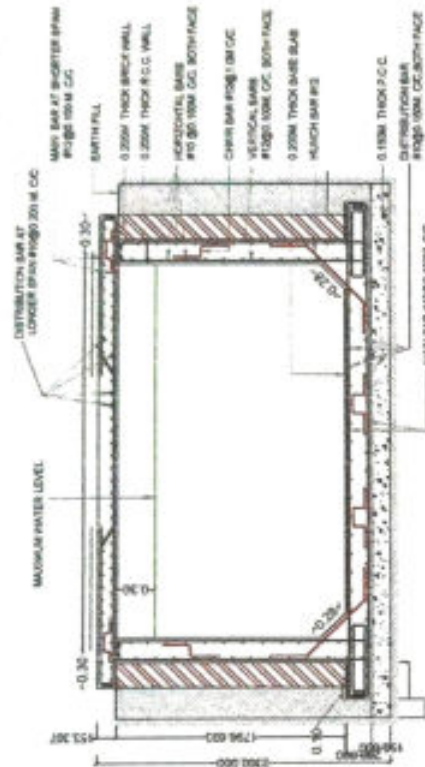
RAIN WATER HARVESTING

PROPOSED MUKTIDHAM, NAGAR PANCHAYAT SARGAON
DIST. - BILASPUR, (C.G.)

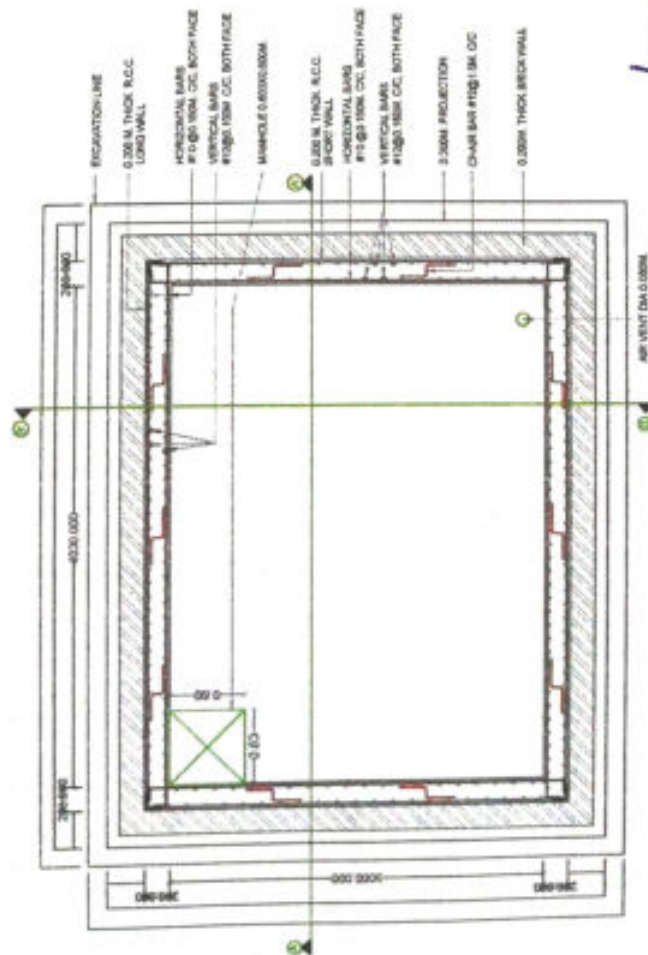
मुख्य नगरपालिका अधिकारी
नगर पंचायत सरगांव
जिला-मुंगेली (छ.ग.)

उप अभियंता
नगर पंचायत सरगांव
जिला-मुंगेली (छ.ग.)

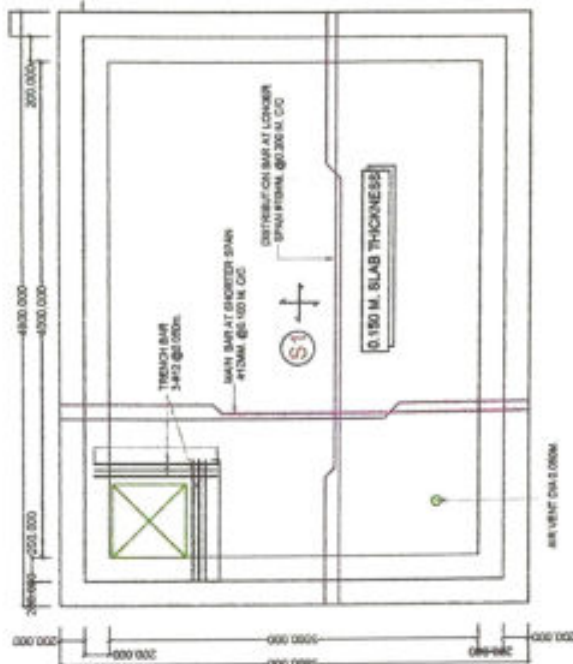
PILLIWAR & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUSEY COLONY,
RAIPUR (C.G.) ☎ (0771) 2255743, 4035743



SECTION AT A-A'



PLAN OF UNDER GROUND WATER TANK
4.0X3.0X1.80 M. (CAPACITY 18,000 Ltr.)



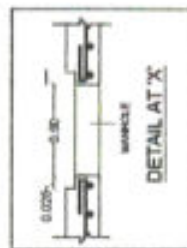
TOP SLAB LEVEL PLAN

[illegible]

UNDERGROUND WATER TANK

मुक्तिदहम, नगर पंचायत सर्गाण दिस्ट.-

BILASPUR, (C.G.)



DETAIL AT 'X'

PILLIWAH & ASSOCIATES
ENGINEERS, ARCHITECTS, PLANNERS,
GIS-CONSULTANTS
& GOVT. APPROVED VALUERS,
25, SOUTH AVENUE, CHOUDEY CLOVE,
RAIPUR (C.S.) ☎ (0771) 2255742 (R3514)

[illegible]

PILLIWAR & ASSOCIATES ENGINEERS, ARCHITECTS, PLANNERS, 1001 CONVENT AVENUE, SUITE 2000, NEW YORK, NEW YORK 10037 TEL: (212) 691-1515 FAX: (212) 691-1516 E-MAIL: P&A@PILLIWAR.COM			
PROJECT SUBMITTAL NO. 010	PROJECT NAME PROJECT NO.	PROJECT LOCATION PROJECT NO.	PROJECT DATE PROJECT NO.
PROJECT NAME PROJECT NO.	PROJECT LOCATION PROJECT NO.	PROJECT DATE PROJECT NO.	PROJECT DATE PROJECT NO.