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CHECK LIST FOR ESTIMATE SCRUTINY OF GODOWN

SR.NO	DESCRIPTION	
1	NAME OF WORK :- PROPOSED CONSTRUCTION OF 1000MT CAP. WH BLDG WITH ANCILLARY WORKS AT POST 511- ARJAPUR ,TAL-BILOLI, DIST- NANDED.	
2	7/12 & 8- Area	:-
3	Area as per 7/12	:-
4	Proposed Plat Area on Drawing	:-
5	Existing Road / Name Standard of Road (V.R./ O.D.R./MDR/S.H./N.H.)	:-
6	Control Distance Line From the Road Cente	:-
7	Approch Road From ExistingRoad	:-
8	Details Of Drawing [As Per M.S.W.C. Norms]	:- Yes
	A)Plan	:- Yes
	B)Elevation	:- Yes
	C) Section/Cross Section/Front Elevation	:- Yes
	D)Location Plan/ Village Plan	:- Yes
9	Layout Plan	:- Yes
10	Estimate Based on D.S.R Rates For the Year	:- Civil e-SSR 2021-22
11	Certified lead Statement	:- Yes
12	Certified Quarry Chart	:- Yes
13	Abstract/ Recap [Estimated Amount + GST 12% + Contingency% + Insurance 0.5%]	:- 99,98000
14	General Description	:- Yes
15	Scrutiny Charges [DD of Amount Rs...../-	:- 9998 /- (Including 18 % GST)
16	Plinth Hight From Modified Road Top	:- 1.00 met


KUSHAGRA HAWGEER KENCHE
B.E.(CIVIL), PG-PROJECT MANAGEMENT
ENGINEER & CONTRACTOR
BILOLI-431710

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SHRAVANISHREYASI FARMER PRODUCER CO. LTD.
AT 511- ARJAPUR, TAL-BILOLI, DIST- NANDED.

GENERAL REPORT

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1000 MT CAP. WH BLDG WITH ANCILLARY WORKS AT POST 511- ARJAPUR , TAL-BILOLI, DIST- NANDED.

The Estimate has been Prepared for constructing Ware House .
Bldg. of 1000 MT. Cap. of amounting Rs. 99,98000 /-

As per below, Following are the Provisions being made while preparing estimate. And Estimate item rates is considered as per PWD currant e-SSR for year 2021 - 22.

- 1 Excavation
- 2 Footing , Coloumns, Beams of RCC-M20
- 3 BBM For Foundation And Super Structure.
- 4 TMT FE-500 Bar For RCC Work
- 5 OutSide & Inside Plaster Work.
- 6 RCC Tremix Flooring Work
- 7 Steel Rolling Shutter
- 8 Steel Grill Windows (V1 & V2)
- 9 Painting / Colouring Work For Inside & Outer Side
- 10 Structrural Steel Work For Roofing Truss
- 11 Turbo Ventiletar.
- 12 colour coated Zincalume Sheet For Roofing .

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RECAPULATION SHEET
FINAL

Based on E SSR -2021-22

PARTICULARS

	Cap.	Unit	AMOUNT	Cost per MT
Sub Work :-I Const. of 1000 MT WH Bldg. 1000 MT		MT	Rs 8533396	8533 Cost per MT
Sub Work II :- Electrification		1.5%	Rs 128000	
Sub Work III :- Royalty Charges			Rs 167445	
Sub work IV:- Material Lab Testing charges			Rs 58366	
TOTAL COST			8887207	8887 Cost per MT
Add GST	12%		Rs 1066464	
Add L.I.	0.5%		Rs 44436	
Grand Total			Rs <u>9998107</u>	9998 Cost per MT
Say			9998000 /-	

[Signature]
KUSHAGRA HAWGEER KENCHE
B.E.(CML), PG-PROJECT MANAGEMENT
ENGINEER & CONTRACTOR
BILOLI-431710

SHRAVANISHREYASI FARMER PRODUCER CO. LTD.
511- ARJAPUR, YQ. BILOLI, DIST. NANDED

NAME OF WORK :- PROPOSED CONSTRUCTION OF 1000 MT CAP WH BUILDING WITH ANCILLARY WORK AT 511- ARJAPUR, TQ. BILOLI, DIST. NANDED

LEADS & RATES OF MATERIALS		Based on E SSR -2021-22									
S.N.	MATERIAL & LOCATION	UNIT	LEADS KM	CHARGES ACTUAL	INITIAL	LEAD DIFF	Pay load Factor				
1	SAND	CUM	40.00	660.06	0.00	660.1	1.00				
2	METAL UPTO 40MM crushed	CUM	40.00	660.06	0.00	660.1	1.00				
3	METAL ABOVE 40 MM Road	CUM	40.00	632.56	0.00	632.6	1.00				
4	RUBBLE	CUM	40.00	632.56	0.00	632.6	1.00				
5	BRICKS	Cum	60.00	2018.50	0.00	958.8	1.00				
6	(475 bricks per Cum)	CUM	15.00	340.69	0.00	340.69	1.00				
7	HARD MURUM/Soft Murum	1	0								
8	Royalty	MT	60	626.75	0.00	626.75	0.00				
9	Cement	MT	60	626.75	0.00	626.75	0.00				
	Steel			Natural		Artificial					
			QTY	RATE	AMOUNT	Rate	Amount				
1	C.C. M-10 for foundation & bedding	SAND	0.47	660.06	310.23	660.06	310.23				
		METAL	0.94	660.06	620.46	660.1	620.46				
					930.68		930.68				
2	P & C U.C.R masonry	SAND	0.4	660.06	264.02	660.1	264.024				
		RUBBLE	1.25	632.56	790.70	632.6	790.7				
		Cement	1.78	0.00	0.00		1054.724				
					1054.72						
3	P & C B.B. masonry in plinth & S.S	SAND	0.32	660.06	211.22	660.1	211.2192				
		BRICKS	0.475	958.79	455.42	958.79	455.4241				
					666.64		666.64				
4	P & L R.C.C. (M-20) M-20	SAND	0.425	660.06	280.53	660.06	280.53				
		METAL	0.85	660.06	561.05	660.06	561.05				
					841.58		841.58				
4-A	P & L R.C.C. M-15	SAND	0.44	660.06	290.43	660.06	290.43				
		METAL	0.88	660.06	580.85	660.06	580.85				
					871.28		871.28				
5	P & A 25mm tk plaster	SAND	0.024	660.06	15.84	15.84					
		METAL	0.22	660.06	145.21	161.05	percentage required to be added will be percentage				0.00%
					161.05		percentage required to be added will be percentage				0.00%
6	P & A 20mm tk plaster	SAND	0.024	660.06	15.84	15.84					
					15.84		BLDG.WORKS				
7	P & F ploished shahabad for sills & dado	SAND	0.024	660.06	15.84	15.84					
					15.84		SERVICE CHARGES.				
					23.76		Labour cess				
8	P & C half brick wall	sand	0.036	660.06	23.76	23.76					
	120 bricks per cum	bricks	1	958.79	958.79	958.79					
					982.55		TOTAL:				

I.N.	DESCRIPTION OF ITEM	QTY.	UNIT	I.N./P.N	BASIC RATE	LEAD CHARGES		PS & R.A.		TOTAL	Add 0 % C Area Charges 0.000	TOTAL OF ADD % RATES \$ TO 11 CHARGES	TOTAL OF RATES \$ TO 14	AMOUNT
						SAND HM	METAL BRCHTS	R.A.	R.A.					
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	3	4	5	6	7	8	10	11	12	13	14	15	16
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means	118	Cum	21.02/115	193.00				193.00	0.00	193.00	0.00	193.00	22774
2	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means	0.83	Cum	21.04/115	241.00				241.00	0.00	241.00	0.00	241.00	200
3	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means	48	Cum	21.06/148	212.00				212.00	0.00	212.00	0.00	212.00	10176
4	Excavation for foundation in Hard murum including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 to 3.0m.) By Mechanical Means	0.83	Cum	21.08/115	265.00				265.00	0.00	265.00	0.00	265.00	219
5	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5m.) By Mechanical Mean	31	Cum	21.10/115	235.00				235.00	0.00	235.00	0.00	235.00	7285
6	Excavation for foundation in Hard murum and boulders including removing the excavated material upto a distance of 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 m to 3.0 m.) By Mechanical Means	0.83	Cum	21.12/115	291.00				291.00	0.00	291.00	0.00	291.00	241

7	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murrum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.	53	Cum	2.11/23	104.00				104.00	104.00	0.00	104.00	104.00	5512
8	Excavation for roadway in hard murrum and boulder including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.	1.6	Cum	2.13/23	121.00				121.00	121.00	0.00	121.00	121.00	193
9	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap / granite / quartzite / gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	65	Cum	24.01/129	5538	930.58	-120.00		6348.68	6348.68	0.00	6348.68	6348.68	412664
10	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete	0.83	cu m	28.01/146	4757				4757.00	4757.00	0.00	4757.00	4757.00	3948
11	Providing second class Burnt Brick masonry with conventional / L.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls / in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed	40	Cum	27.01/144	7343	0.00			7343.00	7343.00	0.00	7343.00	7343.00	293720
12	Providing & laying 35 cms wide single layer tarfelt by applying initial coat of shalbond @1kg/sqm fixing in place by wire nails for D.P.C. at plinth as directed by Engineer in charge.	40	Sqm	R.A.	349.25				349.25	349.25	0.00	349.25	349.25	13970
13	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels parails, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete..	10.66	MT	26.33/139	71778.00				71778.00	71778.00	0.00	71778.00	71778.00	765153
14	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with out	23.3	Cum	25.11/133	65666.00	841.58	-120.00		7387.58	7387.58	0.00	7387.58	7387.58	172130

15	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel) with fully	31.6	Cum	25.31/134	12987.00	841.58	-120.00	13708.58	13708.58	0.00	13708.58	433191
16	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch	48	Cum	25.50/135	11483.00	841.58	-120.00	12204.58	12204.58	0.00	12204.58	585819
17	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.	1.6	Cum	26.05/137	13111.00	841.58	-120.00	13832.58	13832.58	0.00	13832.58	22132
18	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. With fine aggregate (Crushed sand VSI Grade)	1.6	Cum	25.70/135	13943.00	841.58	-120.00	14664.58	14664.58	0.00	14664.58	23463
19	Providing second class Burnt Brick masonry with conventional/1.S.type brick since mentmortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	120.8	Cum	27.05/144	7570.00	0.00		7570.00	7570.00	0.00	7570.00	914411
20	Providing and laying Cast in situ/Ready Mix cement concrete M-15 of trap/ granite/quartzite/ gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawing or as directed including steel centering, plywood/ steel formwork compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by	1.6	Cum	24.16/132	6030.00	871.28	-120.00	6781.28	6781.28	0.00	6781.28	10850
21	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	931	Sqm	32.11/153	599.00	15.84		614.84	614.84	0.00	614.84	572416

22	Providing internal cement plaster 12 mm thick in Single coats in cement mortar 1:4 without neru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	716	Sqm	32.04/153	264.00	15.84		279.84	279.84	0.00	279.84	200365
23	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 with neru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	126	Sqm	32.04/153 /32.21/154	332.00	15.84		347.84	347.84	0.00	347.84	43827
24	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.	673.3	Sqm	35.15/165	97.00			97.00	97.00	0.00	97.00	65310
25	Providing and applying two coats of exterior acryylic emulsion paint conforming to corresponding I.S. of approved manufacture and of approved colour to the plastered surface including cleaning, preparing the plaster surface, applying primer coat, scaffolding if necessary , and watering the surface for two days etc. complete.	731.6	Sqm	35.25/165	240.00			240.00	240.00	0.00	240.00	175584
26	Providing and applying two coats (exterior quality) of flat oil paint of approved colour and shade to the plastered surface in buildings and workshops including scaffolding if necessary, cleaning the surface and preparing surface etc. complete. (excluding primer coat)	133.3	Sqm	35.11/164	83.00			83.00	83.00	0.00	83.00	11063
27	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices	18.3	Sqm	39.24/181	4310.00			4310.00	4310.00	0.00	4310.00	78873
28	Providing and fixing mildsteel grill work for windows, ventilator etc. 20 Kilogram /Square Metre as per drawing including fixtures, necessary welding and painting with one coat s of anticorrosive paint and two coats of oil painting complete.	25	Sqm	40.01/192	1845.00			1845.00	1845.00	0.00	1845.00	46125
29	Providing structural steel work in trusses, other similar trussed girders and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.	15	M T	23.04/129	105909.00			105909.00	105909.00	0.00	105909.00	1588635
30	Providing and fixing colour coated Zincalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min. 550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (628.33	Sqm	38.34/173	1095.00			1095.00	1095.00	0.00	1095.00	688021

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41	Providing & fixing ISMC 150 with weight @ 16.80 Kgs/Rmt 20 mm dia & 0.50 m long bolts & nuts @ 1.00 mc/c, M.S. angles for stands of fire bucket including chain fixing in wall applying three coats of oilpaint etc. compl	0.86	MT	23.07/129	89181.00	89181.00	89181.00	89181.00	0.00	89181.00	76695
42	Providing & Fixing in position M.S. ladder of 45 cms width made out 50 x 50 x 6 mm two angles for rails and M.S. angle stiffeners at three places as directed with M.S. round bars of 20 mm dia for steps @ every 30 cm c/c including fixing	16	RMT	RA	805.80	805.80	805.80	805.80	0.00	805.80	12880
43	Providing and fixing lighthouse conductor system comprising of erecting Air-Termination consisting of tubular copperrod of 25 mm dia. 1.2 mm thick with multiple point shead 1.2mt. long (HeavyDuty)welder clamped to G.I. pipe pole Bgrade 50 mm dia of required length with M.S. round bnase plate 25 Cm diamand 10mm thick at bottom embedded in cement concrete 1:3:6 d foundation of size 45 cm diam x 45cm Height and providing earth ing with coppet earth plate of size60x60x0.3cms with cadmiumpul at ed nut bolt sto fix arthing strip burried inspecially prepared earth pits1.5metre below ground level with 40 Kilogram charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40 mm dia2meter length burried inearthe up to earthing platereining portion above ground level forwatering and refilling oncompete Note-Copper strip for earthing conductor is not considered in this item.	2	Nos	44.18/214	22189.00	22189.00	22189.00	22189.00	0.00	22189.00	44378
44	Conveying the materials obtained from excavation including all lifts, laying in layers, breaking clods, dressing to the required lines, curves, grades and section for a lead over 50m to 300m from the site of excavation to the site of dep	25	Cum	2.25/24	177.00	177.00	177.00	177.00	0.00	177.00	4425
45	Conveying the materials obtained from excavation including laying in layers, breaking clods, dressing to the required lines, curves, grades and section for all leads & lifts from the site of excavation to the site of deposition away from building as directed engineer in charge.	66.6	Cum	5 KM lead stat.	220.46	220.46	220.46	220.46	0.00	220.46	14682
46	Providing pre-constructional Anti-termitte treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephochlore per square meter of surface	541.66	sq m	21.24/117	94.00	94.00	94.00	94.00	0.00	94.00	50616
47	Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc. complete.	24.35	sq m	39.68/188	3107.00	3107.00	3107.00	3107.00	0.00	3107.00	75655
TOTAL FOR W.H.BLDG										8533396	

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SHRAVANISHREYASI FARMER PRODUCER COMPANY LTD.

AT 511- ARJAPUR, TQ. BILOLI DIST. NANDED

NAME OF WORK :- CONSTRUCTION OF 1/1000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS AT ARJAPUR, TQ. BILOLI, DIST. NANDED.

							1000	
CAPACITY							22.492	547.46
SIZE	OUTER		1 X	24.340	X	22.492	547.46	
	INNER		1 X	23.69	X	20.170	477.83	
LONG WALLS			2					
SHORT WALLS			2					
FOUNDATION DEPTHS							Av Depth	
EARTH SOIL 0 TO 1.50							1.20	
EARTH SOIL 1.50 to 3.00							0.00	
EARTH SOIL 3.00 to 5.00							0.00	
H.M.lift up to 1.5m							0.37	
H.M. lift 1.5 to 3m							0.20	
H.M.& BOULDER up to 1.50m							0.00	
H.M.& BOULDER 1.50mtr to 3.00mtr							0.10	
SOFT ROCK							0.00	
HARD ROCK							0.00	
TOTAL							2.00	
CUTTING IN PLINTH (Provision)							0.20	
asper Site condition								
Ex. Column Footings								
Column Middle C1	2	X	3	X	2.80	X	2.30	
Column Corner C3	2	X	2	X	2.30	X	2.30	
Column Gable Middle C2	2	X	2	X	2.10	X	1.80	
Column Platform	2	X	2	X	1.30	X	1.30	
Ex. Ground Beam PANEL								
C1-C1 middle	2	X	4	X	3.973	X	0.600	3.973
C3-C1 end	2	X	1	X	3.973	X	0.600	3.973
C2-C3 END WALL	2	X	2	X	4.222	X	0.600	
C2-C2 M	1	X	1	X	4.222	X	0.600	4.222
APRON long	1	X	2	X	29.39	X	1.28	7.222
APRON short	1	X	1	X	23.03	X	1.28	7.222
Column Nos. & Size								
Column C1	2	X	3	X	0.66	X	0.320	
Column No.C2	2	X	2	X	0.55	X	0.660	
Column No. C3	1	X	2	X	0.560	X	0.310	
Column No.Platform	2	X	2	X	0.30	X	0.30	
PCC, Tarfelt, BBM, BEAMS								
PANELS								
C1-C1 middle	2	X	2	X	6.25	X	0.35	6.25
C3-C1 end	2	X	2	X	6.138	X	0.35	6.138
C2-C3 END WALL	2	X	2	X	6.74	X	0.35	6.737
C2-C2 M	1	X	2	X	6.912	X	0.35	6.912
Rolling shutters	2	X	2	X	2.10			X 2.55
V1	2	X	10	X	0.75			X 0.75
V2	2	X	12	X	1.00			X 0.60
V2 in gable	1	X	6	X	1.00			X 0.60
TK. OF C.C. FLOORING								
Gutter UCR long	2	X	2	X	29.19	X	0.45	X 0.35
short	1	X	2	X	24.49	X	0.45	X 0.35
APRON BBM long	2	X	2	X	27.49	X	0.23	X 0.50
short	1	X	2	X	22.532	X	0.23	X 0.50
Dock leveller	2	X	2	X				
Filling Below Apron L/W	2	X	2	X	29.19	X	1.50	X 0.45
S/W	1	X	2	X	24.49	X	1.50	X 0.45

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NAME OF WORK :- CONSTRUCTION OF 1/1000 MT CAP. PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS

Part - A :- Civil work

MEASUREMENT SHEET

Item Nos & Description of Items	NO.S		LENGTH	BREDTH	DEPTH / HIGHT	TOTAL QUANTITY	Unit
	1	X 2					
1 Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .							Sqm
	1	X 1	X 27.00	X 23.00		= 621.00	
						TOTAL = 621.00	
Due to Existing road considered only						SAY = 311.00	
2 Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to adistance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical							cum
Column footing							
Column C1	2	X 3	X 2.80	X 2.30	X 1.30	= 50.23	
Column No. C3	2	X 2	X 2.30	X 2.30	X 1.30	= 27.51	
Column No.C2	2	X 2	X 2.10	X 1.80	X 1.30	= 19.66	
Column No.Platform	2	X 2	X 1.30	X 1.30	X 1.30	= 8.79	
For Ground Beam PANEL							
C1-C1 middle	2	X 2	X 3.97	X 0.95	X 0.60	= 9.06	
C3-C1 end	2	X 1	X 3.97	X 0.95	X 0.60	= 4.53	
C2-C3 END WALL	2	X 2	X 4.22	X 0.95	X 0.60	= 9.63	
C2-C2 M	1	X 2	X 4.22	X 0.95	X 0.60	= 4.81	
Extra portion	2	X 1	X 2.25	X 0.95	X 0.60	= 2.57	
APRON long	1	X 2	X 29.39	X 1.28	X 0.60	= 45.15	
APRON short	1	X 1	X 23.032	X 1.28	X 0.60	= 17.69	
						Total 199.61	
						say 200.00	

- 6 Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5m.) By Mechanical Means cum

Column footing

Column C1	2	X	3	X	2.8	X	2.3	X	0.00	=	0.00
Column No. C3	2	X	2	X	2.3	X	2.3	X	0.00	=	0.00
Column No.C2 END	2	X	2	X	2.1	X	1.8	#	0.00	=	0.00
Column No.Platform	2	X	2	X	1.3	X	1.3	X	0.00	=	0.00
Provision									Total		0.00
									say		1.00

- 7 Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift 1.50 to 3.00 m) By Mechanical Means cum

Column footing

Column C1	2	X	3	X	2.80	X	2.30	X	0.10	=	3.86
Column No. C3	2	X	2	X	2.30	X	2.30	X	0.10	=	2.12
Column No.C2 END	2	X	2	X	2.10	X	1.80	X	0.10	=	1.51
Column No.Platform	2	X	2	X	1.30	X	1.30	X	0.00	=	0.00
									Total		7.49
									say		8.00

- 8 Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming ,watering including shoring and strutting etc. complete. (Lift up to 1.5m) By Mechanical Means cum

Provision

Total	1.00
Say	1.00

- 9 Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth/murum, ramming ,watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.00 m.) By Mechanical Means cum

Column footing

Column C1	2	X	3	X	2.8	X	2.3	X	0.00	=	0.00
Column No. C3	2	X	2	X	2.3	X	2.3	X	0.00	=	0.00
Column No.C2 END	2	X	2	X	2.1	X	1.8	X	0.00	=	0.00
Column No.Platform	2	X	2	X	1.3	X	1.3	X	0.00	=	0.00
									Total		0.00
									Total		0.00
									say		1.00

- 10 Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering and back filling with available earth/ murum watering, ramming etc. complete. (Lift upto 1.5 m). By Mechanical Means cum

1	X	1	X	0.00	X	0.00	X	0.00	=	0.00	
									Total	=	0.00
									Say	=	1.00

11 Excavation for foundation in Hard rock up to required depth by pocklain machine with needle breaker including removing the excavated stuff up to a distance of 50 m beyond the building area all lifts stacking , spreading directed. cum

Column footing

SAY = 1.00

12 Excavation in plinth in earth soil of all types of sand or gravel or soft murum including dressing section to the required grade, cambers & side slope & conveying the excavated materials with lead of 50 M and spreading for embakment or stacking as directed cum

1	X	1	X	24.34	X	20.82	#	0.10	=	55.77
										TOTAL = 20.00
										SAY = 20.00

13 Excavation in plinth in Hard murum including dressing section to the required grade, cambers & side slope & conveying the excavated materials with lead of 50 M and spreading for embakment or stacking etc. Complete cum

1	X	1	X	24.34	X	20.82	X	0.00	=	0.00
										TOTAL = 0.00
										SAY = 1.00

14 Providing and fixing 25mm diameter steel anchor dowel in hard rock including drilling hole of 32 mm diameter up to 0.75 mtrs depth, placing the dowel in position and effectively grouting the hole with CM 1:1 proportion etc. complete. Nos

Provision	0.5	X	5	X	4.00	X	1.00	X	1.00	=	10.00
										TOTAL = 10.00	

15 Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate (VSI grade finely washed crushed sand) conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, 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/ Weigh batch mixer, transported to site with all leads and lifts, laid with a paver with electronic sensor /by suitable means as approved by Engineer-in-charge , compacting with vibratory roller, finishing, curing and including preparation of subgrade surface if required etc. complete.(Crushed sand VSI Grade) Cum

Bed concrete in WH.	1	X	1	X	24.34	X	20.82	X	0.10	=	55.77
										Total = 55.77	
										Say = 56.00	

21 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). (Crushed sand VSI Grade) cum

Column up to plinth

									Av.		
Column C1	2	X	6	X	0.66	X	0.320	X	2.50	=	6.34
Column No.C2	2	X	2	X	0.55	X	0.660	#	2.50	=	3.63
Column No. C3	2	X	2	X	0.560	X	0.310	X	2.50	=	1.74
Munim columns	2	X	5	X	0.230	X	0.230	X	1.80	=	0.95
Column No.Platform	2	X	2	X	0.30	X	0.30	X	2.70	=	0.97
Column above plinth											
Column C1	2	X	6	X	0.23	X	0.35	X	3.00	=	2.90
Column No.C2	2	X	2	X	0.23	X	0.35	X	3.00	=	0.97
Column No. C3	2	X	2	X	0.23	X	0.560	X	3.00	=	1.55
Munim columns	2	X	5	X	0.230	X	0.230	X	3.00	=	1.59
Dummy col at rolling shutter	2	X	2	X	0.23	X	0.23	X	3.00	=	0.63
									Total		21.26
									say		22.00

22 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). With fine aggregate (Crushed sand VSI Grade) cum

Ground Beam

C1-C1 middle	2	X	2	X	6.253	X	0.35	X	0.60	=	5.25
C1-C3 end wall	2	X	2	X	6.138	X	0.35	X	0.60	=	5.16
C3-C2	2	X	2	X	6.737	X	0.35	X	0.60	=	5.66
C2-C2	1	X	2	X	6.912	X	0.35	X	0.60	=	2.90
Extra portion	2	X	1	X	2.25	X	0.35	X	0.60	=	0.95
Plinth Beam (Patli)											
C1-C1 middle	2	X	2	X	6.253	X	0.35	X	0.15	=	1.31
C1-C3 end wall	2	X	2	X	6.138	X	0.35	X	0.15	=	1.29
C3-C2	2	X	2	X	6.737	X	0.35	X	0.15	=	1.41
C2-C2	1	X	2	X	6.912	X	0.35	X	0.15	=	0.73
Extra portion	2	X	1	X	2.25	X	0.35	X	0.15	=	0.24
Intel Above V1											
C1-C1 middle	2	X	2	X	1.75	X	0.23	X	0.15	=	0.24
C1-C3 end wall	2	X	2	X	1.75	X	0.23	X	0.15	=	0.24
Door Beam											
C1-C1 middle	2	X	2	X	6.253	X	0.23	X	0.45	=	2.59
C1-C3 end wall	2	X	2	X	6.138	X	0.23	X	0.45	=	2.54
C3-C2	2	X	2	X	6.737	X	0.23	X	0.45	=	2.79
C2-C2	1	X	2	X	6.912	X	0.23		0.45	=	1.43
Platform beam											
PB2	2	X	2	X	1.90	X	0.23	X	0.60	=	1.05
PB1	2	X	1	X	9.52	X	0.23	X	0.60	=	2.63
PB3	2	X	1	X	9.520	X	0.35	X	0.60	=	4.00
OFFSET	2	X	2	X	9.520	X	0.205	X	0.15	=	1.17
OFFSET	2	X	2	X	1.900	X	0.205	X	0.15	=	0.23
									Total		43.81
									say		44.00

23 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). With fine aggregate (Crushed sand VSI Grade) Cum

Ventilators - V1 Long side	2	x	5	x	2.05	x	0.450	x	0.075	=	0.69
									Total		0.69
									Say		1.00

24 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). With fine aggregate (Crushed sand VSI Grade)

PLATFORM SLAB	2	X	1	X	9.68	X	1.870	X	0.20	=	7.24
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253

								Total		7.24		
								say		8.00		
25	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete(Crushed sand VSI Grade)										cum	
	Provision	2	X	10	X	0.60	X	0.35	X	0.10	=	1.00
												1.00
										net		1.00
	For PANEL											
	C1-C1 middle	2	X	2	X	6.253	X	0.23	X	2.55	=	14.67
	C3-C1 middle end	1	X	2	X	6.138	X	0.23	X	2.55	=	7.20
	C3-C2	1	X	2	X	6.737	X	0.23	0	2.55	=	7.90
	C2-C2	2	X	1	X	6.912	X	0.23	X	2.55	=	8.11
	Extra portion	2	X	1	X	2.25	X	0.23	X	2.55	=	2.64
	Deduction for									Total		40.52
	Munim columns	2	X	5	X	0.23	X	0.23	X	2.55	=	1.35
	Rolling shutters	2	X	2	X	2.10	X	0.23	X	2.55	=	4.93
	V1	2	X	10	X	0.75	X	0.23	X	0.75	=	2.59
	V1, Lintel										=	
	C2 near R.S.										=	0.63
	Bed block below V1 ,etc	2	X	10	X	0.75	X	0.23	X	0.10	=	0.35
										Total deduction		9.84
										net		30.68
										say		31.00

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26 Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation cum blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed. complete. With fine aggregate (Crushed sand VSI Grade)

Below V1	2	X	10	X	0.75	X	0.23	X	0.1	=	0.35
At fire bucket	2	X	2	X	0.20	X	0.20	X	0.35	=	0.06
ladder bedblock	1	X	2	X	0.20	X	0.20	X	0.35	=	0.03
								#	Total		0.43
									say		1.00

27 Providing sand faced cement plaster 20 mm thick in C.M. 1:4 outside to the W.H. bldg. Without smooth neeru finish to concrete sqm or brick surface in all positions including scaffolding curing etc. complete as directed by engineer in charge

Outside											
Long wall	1	X	2	X	24.34	X	3.00			=	157.75
short wall	1	X	1	X	23.69	X	3.00			=	67.48
R S Jams	2	X	1	X	10.00	X	0.23			=	4.60
Weather sheds over											
V1 top, bottom	2	x	5	x	2.05	x	0.45			=	9.23
Sides	2	X	10	X	0.450	X	0.08			=	0.68
									Total		239.73
Deduction											
rolling shutter	2	X	2	X	2.1	X	2.5			=	21.00
									Dedu.		21.00
									Net		218.73
									Say		219.00

28 Providing cement plaster 20 mm thick in C.M. 1:4 inside to the W.H. bldg. with smooth neeru finish to concrete or brick surface in all sqm positions including scaffolding curing etc. complete as directed by engineer in charge

Inside											
Long wall	1	X	2	X	24.34	X	3.23			=	165.32
	1	X	2	X	20.82	X	3.23			=	140.78
									Total		306.10
Deduction											
rolling shutter	2	X	2	X	2.1	X	2.5			=	21.00
									Dedu.		21.00
									Net		285.10
									Say		286.00

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29 Providing cement plaster 20mm thick in C.M. 1:4 outside to the W.H. bldg. With CEMENT smooth finish to concrete or brick surface in all positions including scaffolding curing etc. complete as directed (Natural Sand) sqm

Outside								=	35.03
Apron LW	1	X	2	X	29.19	X	0.60	=	29.39
S/W	1	X	2	X	24.49	X	0.60	591	107.22
Gutter LW	1	X	2	X	27.49	X	1.95	=	87.87
S/W	1	X	2	X	22.53	X	1.95	=	63.10
Long wall plinth	1	X	2	X	26.292	X	1.20	=	26.99
short wall plinth	1	X	1	X	22.492	X	1.20	=	
								Total	349.61
								Say	350.00

30 Providing & applying whitewash three coats on plastered or masonry surface and A.C. sheets including scaffolding & preparing the surface by brushing & brooming down complete. sqm

Long wall	1	X	2	X	24.340	X	3.23	=	165.32
	1	X	2	X	20.820	X	3.23	=	140.78
								Total	306.10
Deduction rolling shutter	2	X	2	X	2.1	X	2.5	=	21.00
								Dedu.	21.00
								Net	285.10
								Say	286.00

31 Providing and applying two coats of exterior acryylic emulsion paint conforming to corresponding I.S. of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface, applying primer coat ,scaffolding if necessary , and watering the surface for two days etc complete. sqm

Outside								=	223.48
Long wall	1	X	2	X	24.34	X	4.25	=	95.59
short wall	1	X	1	X	20.82	X	4.25	=	7.00
R S Jams	2	X	1	X	10.00	X	0.35	=	
Weather sheds over								=	9.23
V1 top, bottom	2	x	5	x	2.05	x	0.45	=	0.68
Sides	2	X	10	X	0.45	X	0.075	Total	335.97
								=	21.00
rolling shutter	2	X	2	X	2.1	X	2.5	Dedu.	21.00
								Net	314.97
								Say	315.00

32 Providing sills of polished Kota stone 25 mm to 30mm thick, on a bed of 1:4 cement mortar including cement float, filling joints with slurry,curing,moulding edges, polishing and cleaning etc. complete. sqm

Inside Below V1	2	x	5	x	0.75	X	0.20	=	1.50
								Total	1.50
								Say	2.00

33 Providing & applying oilpainting in two coats of approved colour & shade to flooring for marking stacklines including preparing the surfaces & primer coat etc. complete. sqm

Plinth									
stack lines								=	10.80
Long	1	X	12	X	9.00	X	0.10	=	6.96
Short	1	X	12	X	5.80	X	0.10	=	3.48
Long Middle portion	1	X	6	X	5.80	X	0.10	=	2.04
Short middle portion	1	X	6	X	3.40	X	0.10	Total	23.28
								Say	24.00

34	Providing & applying oilpainting name of M S W C with three coat with background of approved colour & shade including scaffolding etc complete.	sqm
Qty	0 X 1 X 20.00 X 1.00	= 0.00
		Total 0.00
		Say 1.00
35	Providing and fixing in position aluminium openable ventilators as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections with powder coating including necessary fixtures and fastening with 5 mm thick float glass etc. complete. (Note While arriving at the rate of item of item weight at 6.90 kg/Sqm is considered for only aluminium ventilators) and with G.I. wiremesh of 18 Gauge, 6 mm square mesh fixed to outside the frame of ventilator and grill of 12 mm sq. bars in vertical directions at 10 cms c/c fixed to outside surface of the frame and approved quality and type fixtures, fittings including red oxide & oilpainting three coats.As per detailed drawing and as directed.	sqm
V1	2 x 10 x 0.75 X 0.75	= 11.25
		Total 11.25
		Say 12.00
36	Providing & fixing steel rolling shutter fabricated from 20 gauge steel laths with side guides, bottom rails, brackets of 10 G.M.S. sheet door suspension shaft, rolling springs, locking arrangements with not less than 6mm thick strip and central lock as per specifications, housing box prepared out of 20 G sheets at the top, handles prepared out	sqm
Qty	2 x 2 x 2.10 x 2.55 x 0.00	21.42
		Total 21.42
		Say 22.00
37	Providing & fixing steel grill rolling shutter with fabricated from 20 gauge steel laths with side guides, bottom rails, brackets of 10 G.M.S. sheet door suspension shaft, rolling springs, locking arrangements with not less than 6mm thick strip and central lock as per specifications, housing box prepared out of 20 G sheets at the top, handles prepared out of 6mm thick flats 4 no's, holdfast patti 6 nos, for each side guide with 12 concrete nails / fastener, including applying three coats of oil paint of approved color & shade etc. complete (Grill portion size should be 2 10 M x 1 70 M) As directed by Engineer-in Charge	sqm
Qty	2 x 2 x 2.10 x 2.55 x 0.00	21.42
		Total 21.42
		Say 22.00
38	Providing and fixing rolling shutter fabricated from steel lath s of minimum thickness 0.9mm with lockplate of 3.15 mm thickness reinforced with 35x35x5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channe l section of depth and thick ness not less than 65mm and3.15mm respectively with hold fast arrangements, M.S.Bracket plate300x300x3.15mm minimum size and shape with square bar, suspension shaft of minimum 32mm diameter, hood cover ofM.S.sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer and 3 Coat of oil painting including central lock, MS Locking patti 3mm thick etc.complete. (With mechanical gear)	sqm
Qty	1 x 2 3.00 x 3.50 x 0.00	21.00
		Total 21.00
		Say 21.00
39	Filling in plinth with approved excavated stuff obtained from departmental land including watering, compacting etc. complete as directed.	cum
Qty received from excavation		Total 10.00
		Say 10.00
40	Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [Only compacted thickness is payable.	cum
Main bldg.	1 X 1 X 25.59 X 21.79 X 0.75	= 418.28
Back filling		125.48
Apron		
Long	1 X 2 X 27.03 X 0.37 X 0.45	= 9.00
Short	1 X 1 X 21.79 X 0.37 X 0.45	= 3.63
Below apron& gutter		
Long	2 X 2 X 29.192 X 1.5 X 0.45	= 78.82
Short	1 X 1 X 24.492 X 1.5 X 0.45	= 16.53
Deduction for		
O.S.metal in plinth		
Long	1 X 2 X 24.34 X 0.60 X 0.60	= -18.43
Short	1 X 1 X 20.82 X 0.60 X 0.60	= -7.41
		Total 625.90
		Say 626.00

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41 Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete. sqm										
Main bldg.	1	X	2	X	25.59	X	21.79	=	1115.40	
Deduction for O.S.metal in plinth										
Long	1	X	2	X	25.59	X	0.60	=	-30.71	
	1	X	2	X	20.59	X	0.60	#	=	-24.71
								Total		1059.98
								Say		1060.00
42 Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal 35% with sand or stone chips spreading & leveling handpacking complete. cum										
Main bldg.	1	X	1	X	25.59	X	21.79	X	0.20	= 111.54
Apron										
Long	1	X	2	X	27.03	X	0.37	X	0.18	= 3.60
Short	1	X	1	X	24.49	X	0.37	X	0.18	= 1.63
O.S.metal in plinth along periphery.										
Long	1	X	2	X	24.34	X	0.60	X	0.60	= 18.43
	1	X	1	X	20.82		0.60		0.60	= 7.41
								Total		142.61
								Say		142.60
43 Compacting the sub grade / gravel / size metal (100 mm loose) layers for all widths with Power roller having weight 8 to 10 sqm MT. including necessary, labour, materials and artificial watering complete.										
Main bldg.	1	X	1	X	25.59	X	21.79	=	557.70	
O.S.metal in plinth along periphery.										
Long	1	X	2	X	25.59	X	0.60	=	30.71	
Short	1	X	2	X	20.59	X	0.60	=	24.71	
								Total		613.12
								Say		613.10
44 Providing and laying in situ Tremix Cement Concrete M-20, with Natural Sand, with Tremix treatment for 150 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep at every 4.00 m c/c both sides with necessary refilling with bitumen,etc. complete as directed by Engineer Incharge. With fine aggregate (Crushed sand VSI Grade finely washed etc Sq.M										
Provision	1	X	2	X	0.00	X	0.00	=	1.00	
Main bldg.	1	X	1	X	25.59	X	21.79	=	557.70	
								Total		557.70
								Say		557.70
45 Providing and casting in situ / ready mix PCC M15 grade of trap metal for coping to head walls / parapet including centering, form work, compaction and curing etc. complete. ((Crushed sand VSI Grade)										
Provision	2	X	2	X	2.00	X	0.45	X	0.10	= 1.00
								Total		1.00
Apron										
Long	2	X	2	X	27.49	X	0.60	X	0.10	= 6.60
Short	1	X	2	X	25.59	X	0.60	X	0.10	= 3.07
Coping over gutter										
Long	2	X	2	X	29.19	X	0.45	X	0.10	= 5.25
Short	1	X	2	X	23.79	X	0.45	X	0.10	= 2.14
								Total		17.06
								Say		18.00
46 Providing & fixing M.S. angle 50 x 50 x 6 mm with holdfasts at doorsills including fixing in bed concrete and then applying three coats of oilpaint etc. complete. RMT										
For Platforms	2	X	2	X	2.50			=	10.00	
								Total		10.00
								Say		10.00
47 Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete. Kgs										
For Platforms	2	X	2	X	13.60	X	16.80	Kg/M.	=	913.92
								@ 16.80 kg/m		

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Holdfasts 20 mm dia	2	X	18	X	0.60	X	2.50 Kg/M.	=	54.00
@ 2.50 kg/m									
L50x50x6 mm for fire bucket.								=	180.00
@ 4.50 kg/m									
							Total		1147.92
							591.36		1148.00
48 Providing & Fixing in position M.S. ladder of 45 cms width made out 50 x 50 x 6 mm two angles for rails and M.S. angle stiffeners at RMT three places as directed with M.S. round bars of 20 mm dia for steps @ every 30 cm c/c including fixing									
	1	X	1	X	8.00			=	8.00
							Total		8.00
							Say		8.00
49 Providing and fixing lightening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of RMT 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long (Heavy Duty) welded or clam ped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round bnase plate 25 Cm diam and 10mm thick at bottom embedded in cement concrete 1:3:6 dfoundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip burried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with alternate layers of charcoal and salt and G.I. pipe 40mm dia 2 meter length burried in earthe upto earthing plate remaining portion above ground level for watering and refilling compcete.									
	1	X	15	X				=	15.00
							Total		15.00
							Say		15.00
50 Providing and fixing Marble plate engraving 10 cm.height letter, figures including painting the lefters/figures with approved colour and sqm shade complete									
	1	X	1	X	0.90	X	0.60	=	0.54
							Total		0.54
							Say		0.54
51 Conveying materials obtained from road cutting including all lifts, laying in layers of 20cm to 30cm. breaking clods, dressing cum to the required lines, curves, grades and section, watering and compacting to not less than 97% of standard Proctor density for a lead of over 50m. to 300m. inclusive from the site of excavation to the site of deposition as directed.									
I-1-A									0.00
I-1A'									0.00
I-1A"									0.00
							Total		0.00
							Say		10.00
52 Conveying materials obtained from road cutting including all lifts, for a lead of upto 5km. from the site of excavation to the cum site of deposition as directed.									
AS PER ITEM No 3									200.00
									200.00
							Total		200.00
							Say		200.00

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53 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, cum ramming, watering etc. complete.

Column footing

Column C1	2	X	2	X	0.65	X	0.35	X	0.00	=	0.00
Column No. C3	2	X	2	X	0.45	X	0.35	X	0.00	=	0.00
Column No.C2 END	2	X	2	X	0.65	X	0.523	X	0.00	=	0.00
Column No.Platform	4	X	2	X	0.45	X	0.23	#	0.00	=	0.00
APRON long	1	X	2	X	29.392	X	1.28	X	0.00	=	0.00
APRON short	1	X	1	X	23.032	X	1.28	X	0.00	=	0.00
									Total		0.00
									say		1.00

Provision

54 Supply of pre-constructural Anti-termite treatment chemical as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Clorophyrifos /Hephoclore per square meter of surface

Provision

Total = 28

say = 28.00

55 Labour charges for pre-constructural Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Clorophyrifos /Hephoclore per square meter of surface

Provision

Total = 558

say = 558.00

56 Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/ granite/ quartzite/ gneiss metal for Cum R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). With fine aggregate (Crushed sand VSI Grade)

Provision for Plinth Padadi

1 X 1 X

= 1.00

Total = 1.00

say = 1.00

57 Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled Sqm sheets for flashing at parapet. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium- Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with super durable polyester paint coat (SDP) or similar. The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. The feed material should have coil manufacturers product details marked a regular interval including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 kg/sqm) As directed by Engineer in charge.

Flashing to cover existing parapet and junction at gable wall roof

1 X 2 X 15.00

= 30.00

Total = 30.00

say = 30.00 Sqm

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SHRAVANISHREYASI FARMER PRODUCER COMPANY LTD

Sub Work III :- Royalty Charges

Item No.	Item No & Description of item	Executed Quantity	Quantity of Material for Royalty Cu. M								
			Cement in bags	SAND	Quantity	METAL Quantity	MURUM	Quantity	RUBBLE Quantity		
	Sub Work :-1 Const. of 600 MT WH Bldg.										
11	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and	24	1.58	37.92	0.32	7.680					
19	Providing second class Burnt Brick masonry with conventional/ I.S. type brick since mortar 1:6 in superstructure	68	1.58	107.44	0.32	21.760					
21	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of	559	0.17	95.03	0.025	13.975					
22	Providing internal cement plaster 12 mm thick in single coats in cement mortar 1:4 without neeru finish, to concrete, brick	430	0.17	73.10	0.025	10.750					
23	Providing internal cement plaster 20mm thick in single coats in cement mortar 1:4 with neeru finish, to concrete, brick surface.	76	0.22	16.49	0.031	2.356			1.20	213.600	
35	Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [Only	178					1.32				
37	Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal 35% with sand	132									
39	Providing and laying in situ cement concrete M20 with trenix treatment for 100 mm thickness for flooring with groove	32	7.00	222.60	0.43	13.515					
	Total		7.00	1179		70.036		174.240		213.600	0.000

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SHRAVANISHREYASI FARMER PRODUCER COMPANY LTD

Royalty Charges Recovery Statements

Sr. No	Particular	Regular Quantity in Curr	Regular Quantity in Brass	Royalty	Surcharge	Distt Mineral Foundation		Royalty Charges @ Rs SAND&144,160 Oth,Min
						2%	10%	
1	SAND	70.04	24.75	211.95	4.24	21.20	237.384	38625
2	METAL Hand broken	174.24	61.57	211.95	4.24		216.189	59668
3	MURUM	213.60	75.48	211.95	4.24		216.189	69152
4	RUBBLE	0.00	0.00	211.95	4.24		216.189	0.00
Total Amount Rs.								167445

Say Rs.

167445

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SHRAVANISHREYASI FARMER PRODUCER COMPANY LTD

Sub work IV:- Material Lab Testing charges

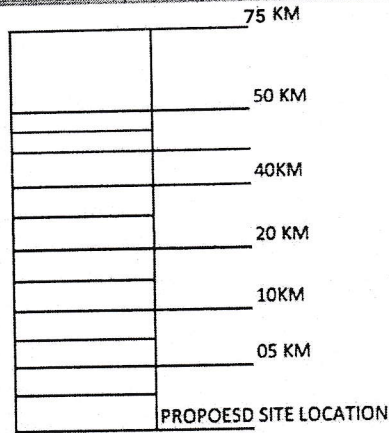
Statement Showing the details of requirement of Lab. Tests to be carried out:-

Sr. No.	Particulars	Quantity	Unit	Tests to be carried out	Nos. of tests	Rate per test	Amount	Remarks	
1	Cement	1179	MT	Fineness, Consistency, Setting Time, Compressive strength, Specific gravity.	4	7540	30160	one test per 1000 Bag	
2	Concrete M-20	64.00	cum	i) Mix Design with all tests on basic materials ii) Concrete cube compressive strength	0 10	- 1380	---	One set for mix design Up to 50 Cum 4 & thereafter for each 50 Cum one additional set one test per 50000 Nos. of bricks	
3	Bricks	92	cum	Water Absorption (Set of 5 Bricks), Compressive strength (Set of 5 Bricks), Efflorescence (Set of 5 Bricks)	4	1900	7600		
6	Sand	70.04	cum	Fineness Modulus, silt content.	3	1950	5606	1 test per source	
7	Murum	213.60	cum	i) Gradation ii) Atterberg Limit iii) Moisture content prior to compaction iv) Density of compacted layer v) Proctor Test	1 0 0 0 0	600 1100 800 1000 1650	1200 0 0 0 0	1 test per 400 Cum. 1 test per 400 Cum. 1 test per 1000 Sq.m 1 test per 3000 Cum.	
TOTAL								58366	

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SHRAVANISHREYASI FARMER PRODUCER COMPANY LTD

QUARRY CHART



CERTIFICATE

THIS IS CERTIFY THAT THE QUARRY SHOW ON QUARRY CHART ARE SHORTEST DISTANCE THAN OTHER QUARRY AND MATERIAL HOLDS SUFFICIENT AND QUALITY FOR CONSTRUCTION, HENCE CERTIFIED.

LEAD CHART AS PER SSR :2021-22

SR NO	MATERIAL	SOURCE	TOTAL LEAD KM		INITIAL LEAD	NET LEAD	NET CHARGES
1	Sand	Yesagi	12	KM	0.00	660.06	660.06
2	Metal Below 40mm	Biloli	03	KM	0.00	660.06	660.06
3	Metal above 40 mm	Biloli	03	KM	0.00	632.56	632.56
4	Murum	Biloli	03	KM	0.00	340.69	340.69
5	Bricks	Vajegaon	68	KM	0.00	2018.5	2018.5
6	Cement	Nanded	75	KM	0.00	626.75	626.75
7	Steel	Nanded	75	KM	0.00	626.75	626.75

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R A Sheet

Item No 35.00 Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed.

Consider 1.00 cu m quantity			
1 - Basic rate 25/383	1.00	288.00	288.00
2 - Lead Charges	15.00	340.69	340.69
3 - Spreading charges	0.00	49.00	0.00
Total Rs			628.69
4 - For compaction 20 % OF H.M.cost			628.69
Grand total Rs.			628.69
Deduction for stacking charges			0.00
I N 3/255	1.20	0.00	0.00
Net Rs			628.69
Therefore rate per cu m will be say	Rs		628.69

Item No 37.00 P Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal 35% with sand or stone chips spreading & leveling
oversize & size metal filling in plinth

Consider 1.00 cu m quantity of 80 mm O.S.metal			
1 - Basic rate	1.00	885.00	885.00
2 - Lead Charges	10.00	632.56	632.56
3 - Spreading charges	0.00	49.00	0.00
Total Rs			1517.56
4 - Add for compaction 15 %			0.00
Grand Total Rs.			1517.56
Deduction for stacking charges			0.00
2./255	1.32	0.00	0.00
Net Rs			1517.56
Therefore rate per cu m will be say Rs			1517.56

986.41

Consider 1.00 cu m quantity of 40 mm O.S.metal			
1 - Basic rate	1.00	885.00	885.00
lead charges-	1.00	632.56	632.56
3 - Spreading charges	0.00	49.00	0.00
Total Rs			1517.56
4 - Add for compaction 15 %			227.63
Grand Total Rs.			1745.19
Deduction for stacking charges			0.00
2./255	1.32	0.00	0.00
Net Rs			1745.19
Therefore rate per cu m will be say Rs			1745.19

610.82
1597.23
1597.23

Say Rs

Item No 40.00 Providing treatment of TREMIX vaccum dewatering over prelaid cement concrete 1:2:4
Laying charges for form work, running vibrator, laying suction matt, dewatering etc.

Consider 1.0 sq m area						
1 - Market rate as per .c	1.00	55.00	50.00			
2 - Transportation charg	0.00	0.83	0.00	2000.0	2406.69	0.83
3- Generator Hire charg	0.00	4.16	0.00	5.00	2000.00	10000.00
Total Rs.			50.00			
4. Diesel charges 5 day:	0.00	1.88	0.00	100.00	45.24	4524.00
5 - Overheads & contractors pprofit	10 %		0.00			

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Grand Total Rs. 50.00
Therefore rate per sq m will be say Rs 50.00

Item No

42.00 P & F M.S.ladder
 Consider 4.00 m length 4.00 Rm
 1 - M.S.angle 50 x 50 x 6 mm
 $2 \times 4.00 + 2 \times 0.60 + 2 \times 0.73 + 2 \times 0.85 = 12.36 \text{ Rm}$
 Weight $12.36 \times 4.5 = 55.62 \text{ Kgs}$

2 - M.S. bar 20 mm dia @ 30 cm c/c
 $15 \times 0.45 \times 2.50 = 16.88 \text{ Kgs}$

3 - Hold fasts 12mm dia
 $2 \times 3 \times 0.20 \times 0.90 = 1.08 \text{ Kgs}$

Total quantity = 73.58 kgs
 #REF! 73.58 40.00 2943.20

4 - C.C. 1:2:4 for bed blocks
 $6 \times 0.20 \times 0.20 \times 0.35 = 0.08 \text{ cum}$
 Rate as per I N 12 of S' 0.08 3500.00 280.00

Grand Total Rs 3223.20
 Therefore rate per R M will be 805.80
 Say 805.80

Item No

33.00 Providing & constructing parapet coping of size 35 x 35 cms in cement mortar 1:4 with c
 Consider 1.00 m length
 1 - Brickwork in CM 1:4
 $1 \times 1.00 \times 0.35 \times 0.20 = 0.07 \text{ cum}$
 $1 \times 1.00 \times 0.40 \times 0.075 = 0.03 \text{ cum}$
 $1 \times 1/2 \times 1.00 \times 0.40 \times 0.075 = 0.015 \text{ cum}$
 Total quantity = 0.115 cum
 Rate as per I N 11 of S' 0.12 7570.00 870.55
 Add cement diff. bet. CM 1:4 & 1:6 (2.60 - 1.44) = 1.16 Bag
 $[1.16 \times 0.115] = 0.13$ 290.00 38.69

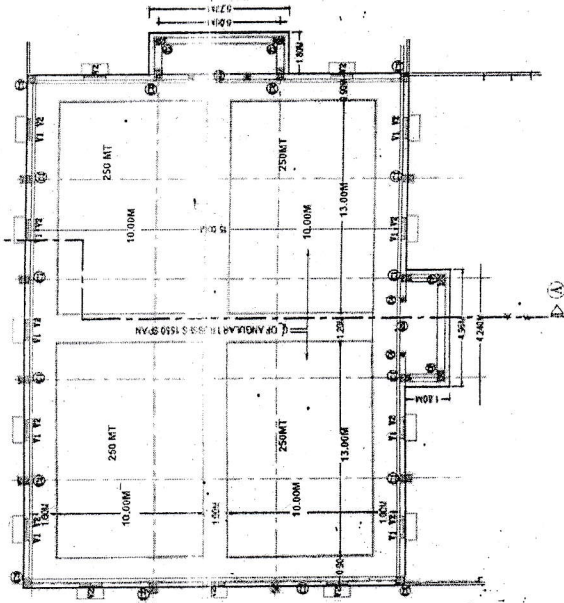
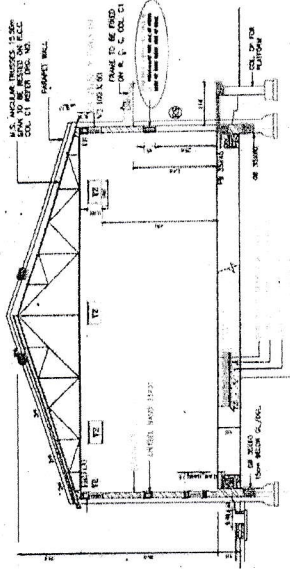
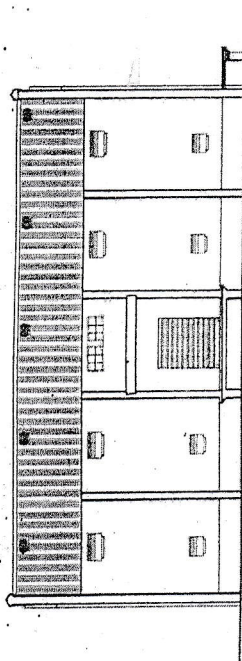
2 - Cement plaster 20 mm tk in C M 1:4 with slurry
 $1 \times 1.00 \times 2 \times [0.20 + 0.025 + 0.075 + 0.21] = 1.02$
 1.02 sq m 1.02 264.00 269.28

3 - Butt joint in C M 1:4 with slurry finish
 $1/2 \times 0.15 \times 0.15 \times 1.00 = 0.01125 / 0.02 = 0.5625 \text{ sqm}$
 0.5625 sq m 0.00 264.00 0.00

Grand Total 1178.52
 Therefore rate per R M will be 1179.00

267

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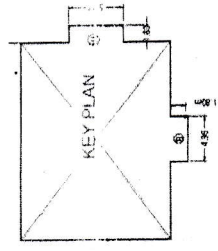


SCHEDULE OF R. C. C. COLUMNS.

TYPE	SIZE	NO	REMARKS
C1	50 X 75	6	LONG WALLS
C2	50 X 75	4	GABLE WALLS
C3	50 X 75	4	GABLE WALLS
C4	50 X 75	4	TO BE BENT ON DS & RS PARALLELS
C5	50 X 75	4	FOR PLATFORMS BELOW BEAM.

SCHEDULE OF ROLLING SHUTTERS/VENTILATORS

TYPE	SIZE (M CHS)	NO.	DISCRETION
RS	160 X 250	2	PAVIL AND PUSH TYPE FIXED FORM INSIDE
V1	60 X 60	9	STEEL WORKING ONLY GLAZED WITH SHUTTERS/BOX WORKS FROM 500 MESH. TO BE FIXED BY THROUGH-BOLT U.S. MESH TO BE FIXED BY THROUGH-BOLT U.S. MESH. POSITION TO BE FROM 475 TO 500 FROM FRAME FROM OUTSIDE.
V2	100 X 60	17	1000 SQ. BARS (11 NOS) IN VERTICAL POSITION. 10000 C/C TO BE USED TO FRAME FROM OUTSIDE.



BUILT UP AREA CALCULATIONS



PLAN SHOWING PROPOSED CONSTRUCTION OF 1000 MT WH WITH ANCILLARY WORK AT ARJAPUR TO BILOLI DIST NANNED

OWNER

SHRAVANISHREYASI FARMER PRODUCER COMPANY LTD

SCALE 1:100

DATE 11/08/2011

AA

KUSHAJA HAWGEER KLNICHE
B.E (CVIL) PG-PROJECT MANAGER
ENGINEER & CONTRACTOR
BILOLI-431710