

- 4 Providing and laying Cast 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 ,cover blocks, laying/pumping, 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 SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc

Column footing											
For Columns C1	1	X	12	X	2.30	X	1.60	x	0.45	=	19.87
For Columns C2	1	X	4	X	2.30	X	1.60	x	0.45	=	6.62
For Columns C3	2	X	3	X	1.35	X	1.20	x	0.45	=	4.37
For Columns For Shutters	1	X	2	X	1.10	X	1.10	x	0.45	=	1.09
For Columns For Platforms	2	X	2	X	1.10	X	1.10	x	0.45	=	2.18
											Total
											34.13
											say
											35.00

- 5 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 drawings or as directed including steel centering, formwork, cover blocks compacting and roughening 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 mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)

For Columns C1	1	X	12	X	0.30	X	0.55	X	1.20	=	2.38
For Columns C2	1	X	4	X	0.30	X	0.55	X	1.20	=	0.79
For Columns C3	2	X	3	X	0.30	X	0.55	X	1.20	=	1.19
For Columns For Shutters	1	X	2	X	0.30	X	0.55	X	1.20	=	0.40
For Columns For Platforms	2	X	2	X	0.30	X	0.55	X	1.20	=	0.79
Column above plinth											
For Columns C1	1	X	12	X	0.30	X	0.55	X	5.60	=	11.09
For Columns C2	1	X	4	X	0.30	X	0.55	X	5.60	=	3.70
For Columns C3	2	X	3	X	0.30	X	0.55	X	5.60	=	5.54
For Columns For Shutters	1	X	2	X	0.30	X	0.55	X	3.50	=	1.16
Column No.C2 in gable	2	X	1	X	0.30	X	0.45	X	3.00	=	0.81
Column near R.S.	2	X	2	X	0.30	X	0.45	X	2.60	=	1.40
	1	X	1	X	0.15	X	0.35	X	3.00	=	0.16
											Total
											29.41
											say
											30.00

- 6 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, compactionand 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 mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)....

Ground Beam / Plinth Beams											
PB1	2	X	5	X	4.78	X	0.30	X	0.45	=	6.45
PB2	2	X	2	X	4.81	X	0.30	X	0.45	=	2.59
PB3	2	X	2	X	4.32	X	0.30	X	0.45	=	2.33
PB4	2	X	2	X	4.20	X	0.30	X	0.45	=	2.27
Lintel beams											
LB1	2	X	5	X	4.78	X	0.23	X	0.35	=	3.85
LB2	2	X	2	X	4.81	X	0.23	X	0.35	=	1.55
LB3	2	X	2	X	4.32	X	0.23	X	0.35	=	1.39
LB4	2	X	2	X	4.20	X	0.23	X	0.35	=	1.35
vb1 ventilators beams											
vb1	2	X	5	X	4.78	X	0.23	X	0.15	=	1.65
vb2	2	X	2	X	4.81	X	0.23	X	0.15	=	0.66
vb3	2	X	2	X	4.32	X	0.23	X	0.15	=	0.60
vb4	2	X	2	X	4.20	X	0.23	X	0.15	=	0.58
Tie beams											
TB1	2	X	5	X	4.78	X	0.23	X	0.35	=	3.85
TB2	2	X	2	X	4.81	X	0.23	X	0.35	=	1.55
TB3	2	X	2	X	4.32	X	0.23	X	0.35	=	1.39
TB4	2	X	2	X	4.20	X	0.23	X	0.35	=	1.35
											Total
											33.41
											say
											34.00

- 7 Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. chhajja as per detailed designs and drawings including centering, formwork, cover blocks 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 automatic micro processor based PLC with SCADA enabled reversible drum type concrete mixer With natural sand.

Verticals V1 Long side	1	x	2	x	4.85	x	0.300	x	0.08	=	0.23
	1	X	2	x	35.96	x	0.300	x	0.08	=	1.73



(DEEPA PAWAR)
Associate Civil Expert
Smart Project Pune

$$1 \times 2 \times 18.46 \times 0.300 \times 0.08 = 0.89$$

say 2.85
3.00 CUM



(Signature)
DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

699

8 Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work in slabs as per detailed sqm drawing and design as directed including dewatering if necessary centering, formwork, compaction, finishing the formed surface with

PLATFORM SLAB	1	X	1	X	5.80	X	1.800	X	1.00	=	10.44
deduct column offset	1	X	1	X	0.30	X	0.15	X	0.20	=	0.01
									Total		10.45
									say		11.00 sqm

9 Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen etc. SQM

1	X	1	x	35.50	x	18.00	X		=	639.00	
										TOTAL NET QTY. =	639.00 sqm
											639.00 SQM

10 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, linteis pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules, including cutting, bending, hooking the bass, binding with wires or tack welding and supporting as required complete M.T

FOOTING	1	X	1	X	35.00	X	60.00	....	=	2100.00
COLUMN	1	X	1	X	30.00	X	90.00	....	=	2700.00
BEAM	1	X	1	X	34.00	X	110.00	....	=	3740.00
CHHAJJA	1	X	1	X	3.00	X	40.00	....	=	120.00
SLAB	1	X	1	X	11.00	X	50.00	....	=	550.00
										TOTAL NET QTY. =	9210.00 KG
										TOTAL NET QTY. =	9.21 MT
											10.00 MT

11 Providing second class Burnt Brick masonry with conventional/ I.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 faces and watering etc. Complete. Cum

For Plinth Work

PB1	2	X	5	X	4.78	X	0.34	X	0.80	=	13.00
PB2	2	X	2	X	4.81	X	0.34	X	0.80	=	5.23
PB3	2	X	2	X	4.32	X	0.34	X	0.80	=	4.69
PB4	2	X	2	X	4.20	X	0.34	X	0.80	=	4.57
										=	27.49
										=	28.00

12 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. Cum

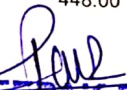
For Super Structure

PB1	2	X	5	X	4.78	X	0.23	X	5.00	=	54.97
PB2	2	X	2	X	4.81	X	0.23	X	5.00	=	22.10
PB3	2	X	2	X	4.32	X	0.23	X	5.00	=	19.85
PB4	2	X	2	X	4.20	X	0.23	X	5.00	=	19.32
Above AC Sheet	2	X	2	X	18.95	X	0.23	X	0.45	=	7.85
										Total	124.09
										Deduction for	
										Rolling shutters	
V1	1	X	2	X	2.10	X	0.23	X	2.65	=	2.56
V1	2	X	12	X	0.90	X	0.23	X	0.60	=	2.98
V1	2	X	14	X	0.90	X	0.23	X	0.60	=	3.48
										Total deduction	9.02
										net	115.07
										say	116.00

13 Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm, to 20cm, including watering and compaction etc. complete..... CUM

Flooring	1	X	1	x	35.50	x	18.00	x	0.70		447.30
										TOTAL NET QTY. =	447.30 CUM
											448.00 CUM




(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune

701

14 Providing soling using 80 mm size trap metal in 15 cm layer including filling voids with Crushed sand/grit, ramming, watering etc. Complete								CUM				
Godown Shed												
For Columns C1	1	X	12	X	2.90	X	2.20	X	0.30	22.97		
For Columns C2	1	X	4	X	2.90	X	2.20	X	0.30	7.66		
For Columns C3	2	X	3	X	1.70	X	1.70	X	0.30	5.20		
For Columns For Shutters	1	X	2	X	1.20	X	1.20	X	0.30	0.86		
For Columns For Platforms	2	X	2	X	1.20	X	1.20	X	0.30	1.73		
Flooring	1	X	1	X	35.50	X	18.00	X	0.20	127.80		
Plinth along periphery	1	X	2	X	38.96	X	1.50	X	0.30	35.06		
	1	X	2	X	18.00	X	1.50	X	0.30	16.20		
										TOTAL NET QTY. =	217.48	CUM
										SAY =	218.00	CUM

15 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete...								Sqm	
Inside									
Long wall	1	X	2	X	35.50	X	5.65	=	401.15
short wall	1	X	2	X	18.00	X	5.65	=	203.40
Gable wall	0.5	X	2	X	18.00	X	3.35	=	60.30
	1	X	1	X	24.00	X	3.35	=	80.40
Deduction								Total	745.25
rolling shutter	1	X	2	X	2.65	X	2.10	=	11.13
V1	2	X	12	X	0.90	X	0.60	=	12.96
	2	X	14	X	0.90	X	0.60	=	15.12
								Dedu.	39.21
								Net	706.04
								Say	707.00

16 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 1 kg per 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.....								SqM	
Plinth									
Long wall	1	X	2	X	35.96	X	1.20	=	86.30
Short wall	1	X	2	X	18.46	X	1.20	=	44.30
Platforms Taper side	1	X	1	X	9.78	X	0.21	=	2.05
Bottom	1	X	1	X	9.78	X	1.00	=	9.78
S/W	1	X	1	X	18.70	X	0.60	=	11.22
Outside									
Long wall	2	X	1	X	35.96	X	5.75	=	413.54
short wall	1	X	2	X	18.70	X	5.75	=	215.05
Gable wall	0.5	X	2	X	18.70	X	2.75	=	51.43
	1	X	2	X	12.00	X	3.25	=	78.00
Column offset C1	4	X	3	X	0.22	X	5.75	=	15.18
C2	1	X	5	X	0.22	X	5.75	=	6.33
C2 in gable	1	X	2	X	0.22	X	1.40	=	0.62
R.S.Jams & soffit	2	X	1	X	7.20	X	0.35	=	5.04
								Total	938.84
Deduction									
rolling shutter	1	X	2	X	2.65	X	2.10	=	11.13
V2	2	X	12	X	0.90	X	0.60	=	12.96
	2	X	14	X	0.90	X	0.60	=	15.12
								Dedu.	39.21
								Net	899.63
								Say	900.00

17 Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete....

1 X 1.00 X 707.00 X X =	707.00
TOTAL NET QTY. =	707.00 SQM
	707.00 SQM



(Signature)
(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune

18 Providing and applying three coats of water proof cement paint of approved manufacture and of approved SQM colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.

1 X 1.00 X 900.00 X X = 900.00
 EXTERNAL PORTIONS PAINTINGS TOTAL NET QTY. = 900.00 SQM
 900.00 SQM

19 Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per M.T 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.

ROOF TRUSS 1 X 1.00 X 35.50 X 18.00 X = 639.00
 M.F. = 21.00 kg/sqm
 13419.00 KG
 13.42 M.T
 TOTAL NET QTY. = 14.00 MT

20 Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled SQM 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) vâth COLORBOND (R) steel quality with thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 coat on back surface. Profile sheet shall have nom. 950-1050 mm width and nominal 25-30 mm deep ribs with subtle square fluting in shall be designed for anti-capillary groove. & return leg. 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.)

Roofing Area 1 X 2 x 35.96 x 9.85 X = 708.41
 TOTAL NET QTY. = 708.41 SQM
 709.00 SQM

21 Providing and fixing of colour coated Zinaluminium R) AZ150 (min 150 gms/sq.mt. Total on each side) SQM 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 (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 mm, comprising of nominal 25mm exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove. & return leg. 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) 301 mm to 600 mm girth (Surface Width)..(As directed by Engineer in charge.)

Ridge at roofing lvl 1 X 1.00 X 35.96 X 0.45 = 16.18
 TOTAL NET QTY. = 16.18 SQM
 SAY = 17.00 SQM

22 Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate SqM 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 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 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 etc. complete. (I.S. 6248-1979) (Without mechanical gear)...

Rolling Shutter 2 X 1.00 X 2.65 X 2.10 X = 11.13
 TOTAL NET QTY. = 11.13 SQM
 10.50 SQM

23 Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc sqm coating including fabricating glazing with plain / obscured glass panes and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete.As directed by Engineer in charge.

V1 2 X 12 X 0.90 X 0.60 = 12.96
 2 X 14 X 0.90 X 0.60 = 15.12
 Total 28.08
 Say 29.00 sqm

24 Providing and fixing wind oppareted tarbo ventiletar systim (24 inch dia.) over exsiting roof including cutting of sheet ,propar fixing in position to true line & level with all fixtures & fastning, providing 0.8mm thick FRP sheet for covering area between roof and fan so as to provide waterfoof joints with approved water proffing compound making good the roof surface including cleaning etc. complete (General application for all types of roofs for ventilation & day light parpose at terrace. [As directed by Engineer in charge]. No. DS

Turbo Ventilators 1 X 10 X 1.00 X 1.00 = 10.00
 Total 10.00
 Say 10.00 No.



(Signature)
 (DEEPA PAWAR)
 Associate Civil Expert
 Smart Project Pune

Providing preconstructional antitermite treatment as per I.S.6313 (Part-II) by treating the top surface of plinth sqm
25 filling at the rate of 5litres of emulsion concentrate at 1.0 percent of cloro phyrifos per squaremetre of
surface area covering ten years guarantee on bond paper.

Flooring	1 X 1 x 35.50 x 18.00 x	639.00
	Total	639.00
	Say	639.00 sqm




(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

Item No. 1-A :- Excavation for side gutters & road formation in earth soil of all type sand gravel including conveying the cum excavated materials upto a lead of 50 m and spreading for embankment or stacking as directed.

Road formation											
long	1	x	3	X	36.97	X	6.50	X	0.30	=	216.27
short	1	x	2	X	18.50	X	6.50	X	0.30	=	72.15
long	0	x	1	X	80.00	X	6.50	X	0.30	=	0.00
	0	x	1	X	5.00	X	6.50	X	0.30	=	0.00
										Net	288.42
										Say	288.00

Item No. 1-B :- Excavation for roadway & side gutters in hard murum, dressing section to the required grade camber cum and side slopes and conveying the excavated materials upto a lead of 50 m and spreading for embankment or stacking as directed.

Road formation											
West long	0	x	3	X	36.97	X	8.05	X	0.15	=	0.00
	0	x	1	X	40.65	X	2.00	X	0.15	=	0.00
South short	0	x	2	X	18.50	X	8.05	X	0.15	=	0.00
	1	x	1	X	22.00	X	7.00	X	0.00	=	0.00
Approch Road side	0	x	1	X	80	X	6.5	x	0.15	=	0.00
										Net	0.00
										Say	5.00

Item No. 1-C :- Excavation for roadway & side gutters in soft rock dressing section to the required grade camber and cum side slopes and conveying the excavated materials upto a lead of 50 M & spreading for embankment or stacking as directed.

Road formation											
South Side Long side C-D	0	x	1	x	36.97	X	7.00	X	0.00	=	0.00
North Side long side A-B Av. Depth 0.19M	0	x	1	x	18.50	X	6.50	X	0.00	=	0.00
East Side short side A-D Av. Depth 0.27 M	0	x	1	X	24.90	X	6.00	X	0.00	=	0.00
	x	1	x	0.00	x	0.00	X	0.00	=	0.00	
										Total	0.00
										Say	1.00

Item No. 2 :- Supplying Soling of trap stone metal at the road side including conveying & stacking etc. complete. cum

East long	0	x	3	X	36.97	X	6.5	X	0.23	=	0.00
South short	0	x	2	X	18.5	X	6.5	X	0.23	=	0.00
Add. Provision	0	x	1	X	5	X	6.5	X	0.23	0	0.00
										Total	0.00
										Say	0.00

Item No. 3 :- Supplying 60 mm trap stone metal at the road side including conveying & stacking etc. complete. cum

long	1	x	3	X	36.97	X	6.50	X	0.15	=	108.14
	0	x	1	X	40.65	X	2.00	X	0.15	=	0.00
short	1	x	2	X	18.50	X	6.50	X	0.15	=	36.08
	0	x	1	X	5.00	X	6.50	X	0.15	=	0.00
	0	x	2	X	1.00	X	6.50	X	0.15	=	0.00
										Add for Compaction factor 32 %	144.21
											46.15
										Total	197.86
										Say	198.00

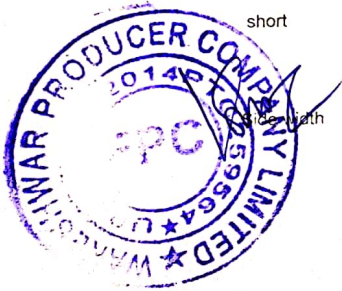
Item No. 4 :- Supplying 40 mm trap stone metal at the road side including conveying & stacking etc. complete. cum

long	1	x	3	X	36.97	X	6.50	X	0.10	=	72.09
	0	x	1	X	40.65	X	2.00	X	0.10	=	0.00
short	1	x	2	X	18.50	X	6.50	X	0.10	=	24.05
	0	x	1	X	5.00	X	6.50	X	0.10	=	0.00
	0	x	2	X	1.00	X	6.50	X	0.10	=	0.00
										Add for Compaction factor 32 %	96.14
											30.77
										Total	126.91
										Say	127.00
											476.96

Item No. 5 - A :- Supplying hard murum at the road side including conveying & stacking etc. complete. cum

long	1	x	3	X	36.97	X	6.50	X	0.05	=	36.05
	0	x	1	X	40.65	X	2.00	X	0.05	=	0.00
short	1	x	2	X	18.50	X	6.50	X	0.05	=	12.03
	0	x	1	X	5.00	X	6.50	X	0.05	=	0.00
	0	x	2	X	1.00	X	6.50	X	0.05	=	0.00
										TOTAL	48.07
side path	1	x	2	X	55	X	0.50	X	0.25	=	13.87
										Total	61.94

209



Deepak Kumar
 (DEEPAK KUMAR)
 Associate Civil Expert
 Smart Project Pune

								Say	62.00			
8	Item No. 5 - B :- Supplying soft murum at the road side including conveying & stacking etc. complete. (Rd.24 / P. 203)									cum		
	long	1	x	3	X	36.97	X	6.50	X	0.03	=	21.63
		0	x	1	X	40.65	X	2.00	X	0.03	=	0.00
	short	1	x	2	X	18.50	X	6.50	X	0.03	=	7.22
		0	x	1	X	5.00	X	6.50	X	0.03	=	0.00
		0	x	2	X	20.00	X	6.50	X	0.03	=	0.00
										TOTAL		28.84
										Say		29.00

9	Item No. 6- A :- Spreading hardmurum at the road side including conveying & stacking etc. complete.									cum		
	Qty. as per item 4-A									=	62.00	
										Total		62.00
										Say		62.00

10	Item No. 6- B :- Spreading soft murum over size metal as blindage as directed etc. complete.									cum		
	Qty. as per item 4-B									=	29.00	
										Total		29.00
										Say		29.00

11	Item No. 7 :- Spreading Soling of trap stone metal including sectioning as directed etc. complete.									cum		
	Qty. as per item 2-A									=	0.00	
										Total		0.00
										Say		0.00

12	Item No.8 :- Spreading 60 mm trap stone metal including sectioning as directed etc. complete.									cum		
	Qty. as per item 2									=	198.00	
										Total		198.00
										Say		198.00

13	Item No. 9 :- Spreading 40 mm trape stone metal including sectioning as directed etc. complete.									cum		
	Qty. as per item 3									=	127.00	
										Total		127.00
										Say		127.00

14	Item No. 10 - A :- Compacting oversize metal layer with H. M. with power roller including artificial watering & necy. sqm Labour etc. complete.											
	long	1	x	3	X	36.97	X	6.50		=	720.92	
		0	x	1	X	40.65	X	2.00		=	0.00	
	short	1	x	2	X	18.50	X	6.50		=	240.50	
		0	x	1	X	5.00	X	6.50		=	0.00	
		0	x	2	X	20.00	X	6.50		=	0.00	
										TOTAL		961.42
										Say		961.00

15	Item No. 10 - B :- Compacting size metal layer with S. M. with power roller including artificial watering & necy. Labour sqm etc. complete.											
	long	1	x	3	X	36.97	X	6.50		=	720.92	
		0	x	1	X	40.65	X	2.00		=	0.00	
	short	1	x	2	X	18.50	X	6.50		=	240.50	
		0	x	1	X	5.00	X	6.50		=	0.00	
		0	x	2	X	1.00	X	6.50		=	0.00	
										TOTAL		961.42
										Say		961.00

16	Item No. 11 :- Compacting hard murum side width layer on each side with power roller including artificial watering etc. sqm complete.											
	Side width			2	X	55.5	X	0.50		=	55.47	
										Total		55.47
										Say		55.50

17	Item No. 12 :- providing & fixing R. C. C. 1:2:4 guard stones as per type design including painting numbering fixing in std. NO Size C. C. 1:4:8 block complete.											
		1	X			35.00				=	35.00	
										Total		35.00
										Say		35.00



11 :- CROSS DRAINAGE WORKS

(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

211

Item No (13-A) :- Excavation for foundation in earth soil of all types sand, gravel & soft murum, depth upto 1.50 meters including removing the excavated stuff upto a distance of 50 meters beyond the bldg. area all lifts stacking or spreading as directed, dewatering, shoring, strutting if necessary preparing the bed for foundation including necessary backfilling (Bd.A.1/259)

C D Works	1	x	1	x	10.00	x	1.50	x	0.70	=	10.50 cum
Open U C R drain	0	x	1	x	5.00	x	1.05	x	0.70	=	0.00
App. C D work Head wall	0	x	2	x	2.00	x	0.75	x	0.70	=	0.00
Width of C D work	0	x	1	x	9	x	1.50	x	0.70	=	0.00
Total											10.50 cum
Say											10.50 cum

Item No (13-B) :- Excavation for foundation in hard murum depth upto 1.50m including removing the excavated stuff upto a distance of 50 meters beyond the building area all lifts stacking or spreading as directed, dewatering, shoring, strutting if necessary preparing the bed for foundation including necessary backfilling etc complete (Bd.A.2/ 259)

C D Works	0	x	2	x	10.00	x	1.50	x	0.45	=	0.00 cum
Open U C R drain	0	x	1	x	5.00	x	1.05	x	0.10	=	0.00
App. C D work Head wall	0	x	2	x	2.00	x	0.75	x	0.45	=	0.00
Width of C D work	0	x	1	x	9	x	1.50	x	0.10	=	0.00
Total											0.00 cum
Say											5.00 cum

Item No (13-C) :- Excavation for foundation in H.M. & boulder upto 1.50 meters including removing the excavated stuff upto a distance of 50 meters beyond the building area all lifts stacking or spreading as directed, dewatering, shoring, strutting if necessary preparing the bed for foundation including necessary backfilling etc complete (Bd. A3/259)

C D Works	0	x	1	x	10.00	x	1.50	x	0.10	=	0.00 cum
Open U C R drain	0	x	1	x	5.00	x	1.05	x	0.10	=	0.00
App. C D work Head wall	0	x	2	x	2.00	x	0.75	x	0.10	=	0.00
Width of C D work	0	x	1	x	9	x	1.50	x	0.10	=	0.00
Total											0.00 cum
Say											5.00 cum

Item No (14) :- Providing & laying in situ cement concrete M-10 of trap metal for foundation & bedding including dewatering if necessary, compacting, curing etc. complete [Bd.E.1 / 287]

C D Works	1	x	1	x	10.00	x	1.50	x	0.10	=	1.50 cum
Open U C R drain	0	x	1	x	5.00	x	1.05	x	0.10	=	0.00
App. C D work Head wall	0	x	2	x	2.00	x	0.75	x	0.10	=	0.00
Width of C D work	0	x	1	x	9	x	1.50	x	0.10	=	0.00
Total											1.50 cum
Say											2.00 cum

Item No (15) :- Providing U.C.R. masonry of trap stones in C.M. 1:6 in foundation & plinth including dewatering, striking joints on exposed surfaces and pointing with C.M. 1:3 on outside surfaces curing etc. complete.(Bd. H.1/329)

C D Works	1	x	2	x	10	x	0.445	x	0.35	=	3.12
Open U C R drain	0	x	2	x	5	x	0.45	x	0.35	=	0.00
App. C D work Head wall	0	x	1	x	2.2	x	0.45	x	1.3	=	0.00
Total											3.12 cum
Say											4.00 cum

Item No (16) :- Providing & fixing in position TMT reinforcement of various diameters for R.C.C. foundations footings, columns, beams, lintels, weathersheds, canopy drops etc as per detailed design, drawing & schedule including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required etc. complete (Bd.F.17/306)

at 160 Kgs / cum	2.0		160								0.32 MT
Total											0.32 MT
Say											0.40 MT

Item No (17) :- Providing & laying in situ cement concrete M-20 of trap metal for R. C. C. work in beams and lintels as per detailed drawing and design as directed including dewatering if necessary centering, formwork, compaction, finishing the formed surface with C. M. 1:3 of sufficient minimum thickness to give smooth finish and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement) [Bd. F. 6 / 300]

1 50 1.3 0.2 0.15



(7B)

[Signature]
 (DEEPTI SHARMA)
 Associate Civil Expert
 Smart Project Pune

Total 1.95 cum
Say 2.00 cum

Item No (18) :- Providing cement plaster 20 mm thick in two coats in C. M. 1 : 4 with slurry finish to concrete or brick surface or U. C. R surface in all positions including scaffolding & curing smooth cement slurry finish 25 of 1.5 mm thickness etc. complete as directed. [Bd. L 4 / 368]

C D Works	1 x	1 x	10 x	1.2		12.00 sqm
App. C D work Head wall	0 x	2 x	2 x	0.65	=	0.00
	0 x	2 x	0.45 x	0.1		0.00
					Total	12.00 sqm
					Say	12.00 sqm

Item No (19) :- Providing pointing with Cement Morter (1: 3) for stone masonry including scaffolding curing etc. complete [Bd. L. 15 / 372]

	0 x	2 x	2.00 x	0.65 x	=	0.00 sqm
	0 x	2 x	0.45 x	0.65 x	=	
					Total	0.00 sqm
					Say	1.00 sqm

Item No(20) :- providing & laying C. C. pipe of NP2 class 450mm dia metre in proper line, level & slope including providing & laying in position the collar in C. M. 1 : 2 etc. complete.

I S N P III Class pipe	0 x	1 x	10.00		=	0.00 Rm
					Total	0.00 Rm
					Say	0.00 Rm

Item No(21):- Supplying & spreading Hard mumrum for cushioning of R C C pipe including watering ramming & leveling etc complete.

I S N P III Class pipe	0 x	1 x	10 x	1.5 x	0.9 =	0.00 cum
Deduct			x	10 x	0.7 =	0.00 cum
					Net	0.00 cum
					Say	0.00 cu m

Item No (22) :- Providing & laying in situ cement concrete M-15 of trap metal for coping to column & compound wall moulded chamfered as per drawing and design as directed including necessary centering, formwork, compaction, finishing the formed surface with C. M. 1 : 3 of sufficient minimum thickness to give smooth finish and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement)

App. C D work Head wall	0 x	2 x	2 x	0.45 x	0.1 =	0.00 cum
Above C.C. pipe	0 x	1 x	10 x	1.5 x	0.3 =	0.00
					Total	0.00 cum
					Say	0.00 cu m

Item No (23) :- Preparing embankment with approved materials obtained from the cutting within a lead of 50 m including laying in layers of 20 to 30 cms , breaking clods , dressing to the required lines curves grades & sections , compacting with power roller etc complete. (Rd14/195)

Total 5.00 cum
Say 5.00 cum

Item No (24) :- Providing earthwork for embankment with materials obtained from other sources with all leads & lift including laying in layers of 20 to 30 cms breaking clods, dressing to the required lines, curves, grades & sections and compaction with power roller complete. [Rd. 13 / P 194]

Road formation

	0 x	2 x	36.97 x	7.00 x	0.60 =	0.00
	0 x	1 x	18.50 x	7.00 x	0.60 =	0.00
	0 x	1 x	5.00 x	7.00 x	0.60 =	0.00

Net 0.00
Say 0.00 CUM



(Signature)
(DEEPA PAWAR)
Associate Civil Expert
Smart Project Pune

715

Item No (25) :- Conveying the materials obtained from excavation including all lifts, laying in layers.
32 breaking clods, dressing to the required lines, curves, grades and section for a lead over 50 m to 300 m
from the site of excavation to the site of deposition as directed. (Rd.18 Page No. 197)

Total	5.00
Say	5.00

Item No (26) :- Conveying the materials obtained from excavation including all lifts, laying in layers, breaking
33 clods, dressing to the required lines, curves, grades and section for all leads & lifts from the site of
excavation to the site of deposition as directed. (Rd. 18 / P. 197)

Qty. as per item No- 1

Total	288.00 cum
Say	288.00




(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

I.N.	DESCRIPTION OF ITEM	Qty	UNIT
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-2 Additional specification No: WG-MA/PC.	85.00	Each
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-4 Additional specification No: WG-MA/PC.	85.00	Rmt
3	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia, CSR 2019-20 Item No 1-6-6 Additional specification No: WG-MA/PC.	10.00	Rmt
4	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC iunction box.	8.00	Each
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9	25.00	kg
6	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR2019-20 Item No 5-4-1 Additional	2.00	Each
7	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/MCB	2.00	Each
8	Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB	3.00	Each
9	Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials. testing & recording the results CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP	1.00	Each



(Signature)
(DEEPA PAWAR)
 Associate Civil Expert
 Smart Project Pune

720

- 10 Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe. 60.00 Rmt
- 11 Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10 50.00 Rmt
- 12 Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. 3.00 Each
- 13 Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU 6.00 Each
- 14 Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCBDB 1.00 Each
- 15 Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete. CSR 2019-20 Item No 2-5-4 Additional specification No. FGODF/ FLS2. 4.00 Each
- 16 Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC 4.00 Each
- 17 Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long (Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm dia of required length with M.S. round base plate 25 Cm diam and 10mm thick at bottom embeded in cement concrete 1:3:6 foundation 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 1.00 No.
- 18 Providing and fixing copper strip 25mm wide and 3mm thick for lightning conductor including fixing with screws required scaffolding etc. complete Note- Lightning conductor and earthing pits is not considered in this item. CSR 2019-20 Item No 44.19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer 7.00 Rmt



(Signature)
(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune

722

VAKESHWAR PRODUCER COMPANY Ltd.

A/P-WAKAD(548276) Tal.:-KANNAD Dist. :- AURANGABAD.

NAME OF WORK : PROPOSED CONSTRUCTION WORK FOR MANUFACTURING SHED

SUBWORK IV:- Royalty Charges

Item. No.	Description of item	Executed Quantity	Quantity of Material for Royalty Cu. M				Rubble / Rd metal	Remark
			Cement in bags	SAND	Crusher METAL	MURUM		
1	2	3	4	5	6	7	8	9
3	Providing and laying Cast in situ/Ready Mix cement	62.00		0.425	26.35			
4	Providing and laying Cast in situ/Ready Mix cement	11.55		0.425	4.9088			
5	Providing and laying Cast in situ/Ready Mix cement	10.00		0.425	4.25			
6	Providing and laying Cast in situ/Ready Mix cement	10.00		0.425	4.25			
7	Providing and casting in situ cement concrete M-20 of	1.00		0.425	0.425			
8	Providing and laying in situ cement concrete M-20	218.15		0.425	92.714			
10	Providing second class Burnt Brick masonry with	14.00		0.32	4.48			
11	Providing second class Burnt Brick masonry with	35.00		0.32	11.2			
12	Filling in plinth and floors with contractors	77.00				1.2	92.40	
13	Providing soling using 80 mm size trap metal in 15	74.00					1.32	97.68
14	Providing internal cement plaster 12mm thick in	355.00		0.015	5.325			
15	Providing sand faced plaster externally in cement	186.00		0.033	6.138			
Total			0.00	160.04	0.00	92.40	97.68	



928

(DESIK PANAR)
Associate Civil Expert
Smart Project Pune

VAKESHWAR PRODUCER COMPANY Ltd.
 A/P-WAKAD(548276) Tal.:-KANNAD Dist.:-AURANGABAD.
 NAME OF WORK : PROPOSED CONSTRUCTION WORK FOR MANUFACTURING SHED

Royalty Charges Statements

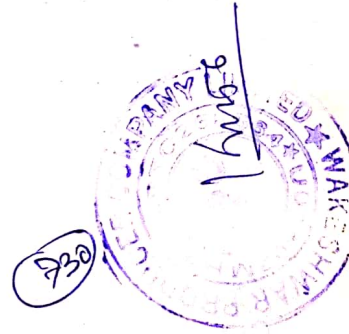
Sr. No	Particular	Requar Quantity in Cum	3	4	Requar Quantity in Brass	Royalty Charges @ Rs 600/ Brass	5	Remarks
1	1 SAND	160.04		2.83	56.55	600	33930.74	
2	2 METAL Hand broken	0		0.00	0.00	0.00		
3	3 MURUM	92.4		32.65		19590.11		
4	4 RUBBLE	97.68		34.52		20709.54		
Total Amount Rs.							74230.39	

Say Rs. 74231.00

Jr. Engineer

Sectional Engineer

Deepak Pawar
(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune



VAKESHWAR PRODUCER COMPANY Ltd.
A/P-WAKAD(548276) Tal.:-KANNAD Dist. :- AURANGABAD.
NAME OF WORK : PROPOSED CONSTRUCTION WORK FOR MANUFACTURING SHED

SUBWORK IV:- Royalty Charges

Item. No.	Description of item	Executed Quantity	Quantity of Material for Royalty				Cu. M	Rubble / Rd metal	Remark
			Cement in bags	SAND	Crusher METAL	MURUM			
		3	4	5	6	7	8	9	
1	2								
3	Providing and laying Cast in situ/Ready Mix cement	62.00		0.425	26.35				
4	Providing and laying Cast in situ/Ready Mix cement	11.55		0.425	4.9088				
5	Providing and laying Cast in situ/Ready Mix cement	10.00		0.425	4.25				
6	Providing and laying Cast in situ/Ready Mix cement	10.00		0.425	4.25				
7	Providing and casting in situ cement concrete M-20 of	1.00		0.425	0.425				
8	Providing and laying in situ cement concrete M-20	218.15		0.425	92.714				
10	Providing second class Burnt Brick masonry with	14.00		0.32	4.48				
11	Providing second class Burnt Brick masonry with	35.00		0.32	11.2				
12	Filling in plinth and floors with contractors	77.00				1.2	92.40		
13	Providing soling using 80 mm size trap metal in 15	74.00					1.32	97.68	
14	Providing internal cement plaster 12mm thick in	355.00		0.015	5.325				
15	Providing sand faced plaster externally in cement	186.00		0.033	6.138				
	Total		0.00	160.04		0.00	92.40	97.68	

33



(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

0

VAKESHWAR PRODUCER COMPANY Ltd.
A/P-WAKAD(548276) Tal.:-KANNAD Dist.:-AURANGABAD.
NAME OF WORK : PROPOSED CONSTRUCTION WORK FOR MANUFACTURING SHED

Royalty Charges Statements

Sr. No	Particular	Requar Quantity in Cum	3	4	Requar Quantity in Brass	Royalty Charges @ Rs 600/ Brass	5	Remarks
1	SAND	160.04	2.83	600	33930.74			
2	METAL Hand broken	0	0.00	0.00				
3	MURUM	92.4	32.65	19590.11				
4	RUBBLE	97.68	34.52	20709.54				
Total Amount Rs.						74230.39		

Say Rs. 74231.00

Jr. Engineer

Sectional Engineer




(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune

734

VAKESHWAR PRODUCER COMPANY Ltd.
A/P-WAKAD(548276) Tal.:KANNAD Dist. :- AURANGABAD.

NAME OF WORK : PROPOSED CONSTRUCTION WORK FOR MANUFACTURING SHED
SUBWORK IV:- Testing Report

Statement showing the details of requirement of Lab. Tests to be carried out:-
SUB WORK III :- Lab. Tests

Sr. No.	Particulars	Quantity	Unit	Tests to be carried out	Nos. of Tests	Rate per Test	Amount	Remarks
1	Cement	2507.00	Bags	Fineness, Standard Consistency, Setting Time (Initial & Final), Compressive strength, Soundness	1	3770.00	3770.00	one test per 1000 Bags
2	Concrete M-10 grade	62.00	cum	i)Concrete cube compressive strength (Set of 3 Cubes)	6	690.00	4140.00	1 test for 15 cum
3	Concrete M-20 grade	250.70	cum	i)Mix Design with all tests on basic materials ii)Concrete cube compressive strength (Set of 3 Cubes)	1 7	16250.00 690.00	16250.00 4830.00	One per 500 cum of concrete 1 test for 15 cum
5	Crushed metal for concrete	213.10	cum	i)Water absorption, Specific gravity, Impact value, Crushing value	1	2600.00	2600.00	one test per 1000 cum per source / change in source.
6	Bricks	35014.00	cum	Crushing value, Water absorption, & Specific Gravity	2	2175.00	4350.00	one test per 50000 Nos. of bricks or part.



(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

736

8	TMT steel bars	2.96	M.T.	Tensile strength, Yield stress, ultimate tensile stress, %elongation, weight per running meter, Bend/Rebend test. (Set of 3 Bars)	1	1595.00	1595.00	1 test per 10.00 M.T. and one for each dia. Of use bar
9	Sand	112.82	cum	Fineness Modulus, silt & clay content.	1	1380.00	1380.00	1 test per source
10	Murum in plinth	77.00	cum	i) Plasticity Index ii) Field Density of compacted layer	1	1170.00	1170.00	1 test per 1000 Cum.
					1	1115.00	1115.00	1 test per 250 Sq.m
					TOTAL		41200.00	



SHAR
(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune

938

LEADS & RATES OF MATERIALS

S.NO	MATERIAL & LOCATION	UNIT	Lead in KM	Actual lead	LEAD DIFF.	Pay load			Rate /unit
						Factor	NET	NET	
			4	5	6	7	8	9	
1	SAND	CU M	5	229.63	229.63	1.00	229.63	229.63	
2	CRUSHED METAL UPTO 10 MM	CU M	10	299.83	299.83	1.00	299.83	299.83	
3	METAL ABOVE 40 MM	CU M	10	287.34	287.34	1.00	287.34	287.34	
4	RUBBLE	CU M	10	366.82	366.82	1.00	366.82	366.82	
5	BRICKS	1000 NOS	5	479.26	479.26	1.00	479.26	479.26	
6	HARD MURUM	CU M	5	220.06	220.06	1.00	220.06	220.06	
7	SOFT MURUM	CU M	5	220.06	220.06	1.00	220.06	220.06	
8	ROYALTY CHARGES	CU M	1	237.37		1.00	0.00	0.00	

Sectionl Engineer

Jr. Engineer

Deepak Pawar
(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune



047

C.C. 1:3:6 for foundation & bedding

	QTY	RATE	AMOUNT
SAND	0.47	229.63	107.93
METAL	0.94	299.83	281.84
SAND	0.35	229.63	80.37
RUBBLE	1.16	366.82	425.51
SAND	0.32	229.63	73.48
BRICKS	0.475	479.26	227.65
SAND	0.425	229.63	97.59
METAL	0.85	299.83	254.86
SAND	0.425	229.63	97.59
METAL	0.85	299.83	254.86
SAND	0.015	229.63	3.44
SAND	0.025	229.63	5.74
SAND	0.022	229.63	5.05
send bricks	0.034 0.12	229.63 479.26	7.81 57.51
send	0.003	229.63	0.69
KG			0.00
RMT			0.00
RMT			0.00
RMT			0.00
SQM.			0.00
SAND	0.425	0.00	0.00
METAL	0.85	0.00	0.00

2. P & C.U.C.R masonry

3. P & C.B.B. masonry in plinth & S.S

4. P & L.R.C.C. (M-20) 1:1.5:3

5. P & L.R.C.C. 1:2:4

6. P & A 12 mm tk plaster

7. P & A 20 mm tk plaster

8. P & F ploished shahabad for sills & dado

9. P & C half brick wall

10. P & a flush pointing in c.m. 1:3 for stone masonry

11. M.S.Channel

12. Wind ties 1.90 kg / mtr

13. M.S.angle sill 4.68 kg / mtr.

14. M.S.ladder 18.40 kg/ mtr.

15. V1 & V2 vents 43.33 kg/m2.

16. P & L.R. C. M30

The centre falls under sugarcane area / corporation /Trible

Hence percentage required to be added will be percentage

Municipal Council Area

TOTAL

Dedn for SCADA

Building	Road
5.00%	0.00%
4.00%	10.80%
9.00%	10.80%
20.00%	5.00%



242

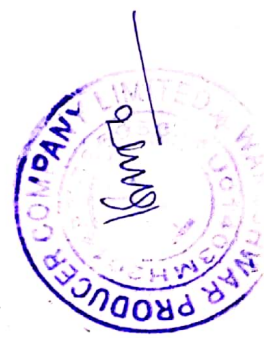
DEEPAK PAWAR
Associate Civil Expert
Smart Project Pune

VAKESHWAR PRODUCER COMPANY Ltd.
A/P-WAKAD(548276) Tal:-KANNAD Dist. :- AURANGABAD.
NAME OF WORK : PROPOSED CONSTRUCTION WORK FOR MANUFACTURING SHED

BASED ON STATE SSR 2021-2022

S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES				LIFTS & RA	TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	RA					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	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	124.00	CUM	21.01/148	232.00	-120.00					232.00	11.60	243.60	30206.00	
	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and	29.00	CUM	21.05/148	354.00						354.00	17.70	371.70	10779.00	
	Providing and laying Cast in situ/Ready Mix cement concrete M-10 of trap/ granite /quartzite/ gneiss metal for foundation and bedding including bolting out water,	62.00	CUM	24.01/169	5538.00	-120.00	97.59	254.86			6010.45	300.52	6310.97	391280.00	
	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for P.C.C. work in foundations like raft, strip foundations,	11.55	CUM	25.11/172	6666.00	-120.00	97.59	254.86			7138.45	356.92	7495.37	86572.00	
	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for P.C.C. columns as per detailed designs and drawings or	10.00	Cum	25.31/173	12987.00	-120.00	97.59	254.86			13459.45	672.97	14132.42	141324.00	
	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	10.00	Cum	25.50/175	11483.00	-120.00	97.59	254.86			11955.45	597.77	12553.22	125532.00	
	Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. slabs and landings canopy as per detailed designs and drawings including centering, formwork, cover blocks compaction	1.00	CUM	25.50/175	13943.00	-120.00	97.59	254.86			14415.45	720.77	15136.22	15136.00	
	Providing and laying in situ cement concrete M-20 with form treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen etc. complete.SSR 2019.	218.15	SQM	33.30/277	746.00	-120.00	97.59	254.86			978.45	48.92	1027.37	224121.00	
	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,	2.96	MT	26.33/182	71778.00						71778.00	3588.90	75366.90	222973.00	

794



(S. J. PAWAR)
Associate Civil Expert
Smart Project Pune

NAME OF WORK : PROJECT CONSTRUCTION WORK FOR MANUFACTURING SHED

Sl. No.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES							TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	LIFTS & RA	6 TO 11	12 TO 13	14				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
10	Providing second class Burnt Brick masonry with conventional/1.5-type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external	14.00	Cum	27.01/169	7343.00	227.65						378.53	7949.18		111289.00		
11	Providing second class Burnt Brick masonry with conventional/1.5-type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints,	35.00	Cum	27.05/254	7570.00	227.65						389.88	8187.53		286564.00		
12	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer in-charge in layers of 15cm, to 20cm, including watering	77.00	CUM	21.37/152	550.00							27.50	577.50		44468.00		
13	Providing soiling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ranning, watering etc. Complete	74.00	CUM	21.40/152	1322.00							66.10	1388.10		102719.00		
14	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding	355.00	SQM	32.04/268	264.00	3.44						13.37	280.82		99691.00		
15	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	186.00	SQM	32.11/201	599.00	3.44						30.12	632.57		117658.00		
16	Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces.	355.00	SQM	36.11/291	43.00							2.15	45.15		16028.00		
17	Providing and applying three coats of water proof cement plaster of approved manufacture and of approved colour to old	186.00	SQM	35.16/216	91.00							4.55	95.55		17772.00		



746

Dr. J. V. PAWAR
 Associate Civil Expert
 Smart Project Pune

BASED ON STATE SSR 2021-2022

LN.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES				TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	LIFTS & RA				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	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	6.11	MT	23.01/167	89181.00	-120.00						4459.05	93640.05	371972.00
19	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	1053.00	SQM	38.34/227	1095.00							54.75	1149.75	1210687.00
20	Providing and fixing of colour coated Zincaluminium R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The feed material is manufactured out of	8.00	SQM	38.35/228	702.00							35.10	737.10	5897.00
21	Providing and fixing rolling shutter fabricated from steel joists of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle	12.00	SQM	39.24/318	4310.00							215.50	4525.50	54306.00
22	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating	0.00	SQM	39.30/319	4449.00							222.45	4671.45	0.00
23	Providing and erecting 1.5metre high wire fencing with seven rows of barbed wire supported on M.S. Angles (50mm x 50mm x	122.00	Rmls	44.09/213	613.00	0.00	0.00	0.00				30.65	643.65	78525.00

TOTAL RS 3965499.00



(DEEPTI PAWAR)
Associate Civil Expert
Smart Project Pune

878

PROPOSED CONSTRUCTION WORK FOR MANUFACTURING SHED

BASED ON STATE SSR 2021-2022

S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES							TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	LIFTS & RA	6 TO 11	12 TO 13	14				
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth	15.00	Each	1-6-2/11	120.00	-120.00								0.00	120.00	1800.00	
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth	20.00	Rmt	1-6-4/11	139.00									0.00	139.00	2780.00	
3	Supplying & erecting mains with 2x4 sq.mm. and earth	7.00	Rmt	1-6-6/11	167.00									0.00	167.00	1169.00	
4	Supplying and erecting Ceiling rose / Batten holder /	5.00	Each	1-7-7/13	35.00									0.00	35.00	175.00	
5	Supplying and erecting triple pole and neutral distribution	2.00	Each	5-4-1/98	929.00									0.00	929.00	3353.00	
6	Supplying, erecting & marking FPMCB 40A to 63A in	2.00	Each	5-3-17/97	1775.00									0.00	1775.00	3550.00	
7	Supplying, erecting & marking DPMCB 6 A to 32 A B-	4.00	Each	5-3-7/96	1298.00									0.00	1298.00	5192.00	
8	Supplying & erecting conventional spike Providing	3.00	Each	9-1-3/161	460.00									0.00	460.00	1380.00	
9	Supplying, erecting & terminating XLPE armoured cable 4	7.00	Rmt	7-1-30/128	5476.00									0.00	5476.00	38332.00	
10	Supplying and laying (including excavation of suitable	5.00	Rmt	7-6-10/140	236.00									0.00	236.00	1180.00	
11	Supplying & erecting Siemens type brass cable glands for	3.00	Each	7-7-4/141	227.00									0.00	227.00	242.00	
12	Supplying & erecting crimping type copper lugs for cable	3.00	Each	7-9-2/142	86.00									0.00	86.00	71.00	
13	Supplying and erecting single pole and neutral	3.00	Each	5-4-14/99	25.00									0.00	25.00	75.00	
14	Supplying and erecting LED Street light fitting suitable for	5.00	Each	2-5-4/35	771.00									0.00	771.00	6929.00	
15	Supplying and erecting Street light bracket made from 40	2.00	Each	2-9-2/40	3646.00									0.00	3646.00	7392.00	
16	Providing and fixing lightninging conductor system	1.00	No.	44-18/581	635.00									0.00	635.00	635.00	
17	Providing and fixing copper strip 25mm wide and 3mm	2.00	Rmt	44-19/581	22189.00									0.00	22189.00	44378.00	

TOTAL RS 118533.00

5178.18

Jr. Engineer

Sectional Engineer

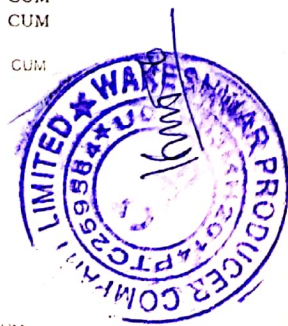


(SUDHAKAR PAWAR)
Associate Civil Expert
Smart Project Pune

MEASUREMENT SHEET

SUB WORK: 1 - Civil work

Item	Description of Items	NO.S	LENGTH	BREDTH	DEPTH / HEIGHT	TOTAL QUANTITY	Unit
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....(Ino21-02, PgNo 197) (STATE SSR) Item Spec: (Bd.A.1 Page No. 259)						CUM
	Column C1	2 X 4.00	X 2.20	X 1.9	X 0.90	= 30.10	
	Column C2	2 X 2.00	X 2.00	X 1.7	X 0.90	= 12.24	
	shutrs column	1 X 1.00	X 1.80	X 1.8	X 0.90	= 2.92	
	platform column	1 X 2.00	X 1.80	X 1.8	X 0.90	= 5.83	
	Beams						
	Long	2 X 3.00	X 3.00	X 1.7	X 0.30	= 9.18	
	Shorts	2 X 3.00	X 3.00	X 0.35	X 0.30	= 1.85	
	Plinth Protections						
	Below plinth L/W	1 X 2.00	X 18.46	X 1.5	X 0.60	= 33.23	
	S/W	1 X 2.00	X 15.46	X 1.5	X 0.60	= 27.83	
					TOTAL NET QTY. =	123.22	CUM
					SAY	124.00	CUM
2	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 Mean....(Ino 21-08, PgNo 197) (STATE SSR) Item Spec: (Bd.A.2 Page No. 259)						CUM
	in front of godown entrance						
	Column C1	2 X 4.00	X 2.20	X 1.9	X 0.50	= 16.72	
	Column C2	2 X 2.00	X 2.00	X 1.7	X 0.50	= 6.80	
	shutrs column	1 X 1.00	X 1.80	X 1.8	X 0.50	= 1.62	
	platform column	1 X 2.00	X 1.80	X 1.8	X 0.50	= 3.24	
	Beams						
	Long	0 X 3.00	X 3.00	X 1.7	X 0.50	= 0.00	
	Shorts	0 X 3.00	X 3.00	X 0.35	X 0.50	= 0.00	
	Plinth Protections						
	Below plinth L/W	0 X 2.00	X 18.46	X 1.5	X 0.60	= 0.00	
	S/W	0 X 2.00	X 15.46	X 1.5	X 0.60	= 0.00	
					TOTAL NET QTY. =	28.38	CUM
					SAY	29.00	CUM
3	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granitel quartzitel 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)....(Ino24-01, PgNo 225) (STATE SSR) Item Spec: (Bd. E. 1 Page No. 287)						CUM
	Flooring	1 X 1.00	X 14.77	X 14.77	X 0.10	= 21.82	
	Column C1	2 X 4.00	X 2.20	X 1.9	X 0.10	= 3.34	
	Column C2	2 X 2.00	X 2.00	X 1.7	X 0.10	= 1.36	
	shutrs column	1 X 1.00	X 1.80	X 1.8	X 0.10	= 0.32	
	platform column	1 X 2.00	X 1.80	X 1.8	X 0.10	= 0.65	
	Below plinth	2 X 3.00	X 4.77	X 0.35	X 0.10	= 1.00	
		2 X 3.00	X 4.77	X 0.35	X 0.10	= 1.00	
	ROLLING SHUTTER ENTRANCE	1 X 2.00	X 5.23	X 1.8	X 0.10	= 1.88	
	Plinth Protections						
	Below plinth L/W	2 X 2.00	X 18.46	X 1.5	X 0.15	= 16.61	
	S/W	2 X 2.00	X 15.46	X 1.5	X 0.15	= 13.91	
					TOTAL NET QTY. =	61.89	CUM
						62.00	CUM
4	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite / quartzitel / 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, cover blocks, laying/pumping, 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 SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc						CUM
	Column C1	2 X 4.00	X 1.50	X 1.3	X 0.45	= 7.49	
	Column C2	2 X 2.00	X 1.40	X 1.1	X 0.45	= 2.77	
	shutrs column	1 X 1.00	X 1.20	X 1.2	X 0.30	= 0.43	
	platform column	1 X 2.00	X 1.20	X 1.2	X 0.30	= 0.86	
						11.55	
					SAY	11.55	CUM



Pune
(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune

752

5 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 drawings or as directed including steel centering, formwork, cover blocks compacting and roughening 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 mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)

up to plinth										
Column C1	2 X	4.00	X	0.30	X	0.55	X	1.20	=	1.58
Column C2	2 X	2.00	X	0.30	X	0.55	X	1.20	=	0.79
shutrs column	1 X	1.00	X	0.30	X	0.3	X	1.20	=	0.11
platform column	1 X	2.00	X	0.30	X	0.45	X	1.20	=	0.32
Above										
Column C1	2 X	4.00	X	0.30	X	0.55	X	3.00	=	3.96
Column C2	2 X	2.00	X	0.30	X	0.55	X	3.00	=	1.98
shutrs column	1 X	1.00	X	0.30	X	0.3	X	3.00	=	0.27
platform column	1 X	2.00	X	0.30	X	0.45	X	3.00	=	0.81
								TOTAL		9.82
								SAY	=	10.00 C.um

6 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 mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc).... (INo25-50, PgNo 234) (STATE SSR) Item Spec: (Bd.F.6 Page No. 300 and B.7, Page No.38)

plinth beam	2 X	3.00	X	4.70	X	0.23	X	0.45	=	2.92
	2 X	3.00	X	4.70	X	0.23	X	0.45	=	2.92
Lintel beams	2 X	3.00	X	4.70	X	0.23	X	0.30	=	1.95
	2 X	3.00	X	4.70	X	0.23	X	0.30	=	1.95
								TOTAL		9.74
								SAY	=	10.00 C.um

7 Providing and casting in situ cement concrete M-20 of trap/G granite / quartzite/ gneiss metal for R.C.C. slabs and landings canopy as per detailed designs and drawings including centering, formwork, cover blocks 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 automatic micro processor based PLC with SCADA enabled reversible drum type concrete mixer With natural sand Bd.F.8 Page No.302 and B.7,Page No 38

platforms slab	1 X	1.00	X	5.23	X	1.8	X	0.10	=	0.94
								TOTAL NET QTY. =		0.94 CUM
										1.00 CUM

8 Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen etc. complete.SSR 2019-20 Item No. 33.30.

	1 X	1.00	X	14.77	X	14.77	X		=	218.15
								TOTAL NET QTY. =		218.15 sqm
										218.15 SQM

9 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, linteis pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules, including cutting, bending, hooking the bass, binding with wires or tack welding and supporting as required complete (INo26-33, PgNo 245) (STATE SSR) Item Spec: (Bd.F.17, Page No. 306)

FOOTING	1 X	1 X	11.55	X	70.00	....	=	808.50	
COLUMN	1 X	1 X	10.00	X	90.00	....	=	900.00	
BEAM	1 X	1 X	10.00	X	120.00	....	=	1200.00	
SLAB	1 X	1 X	1.00	X	50.00	....	=	50.00	
								TOTAL NET QTY. =		2958.50 KG
								TOTAL NET QTY. =		2.96 MT
										2.96 MT



(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

10 Providing second class Burnt Brick masonry with conventional I.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 faces and watering etc. Complete. Cum

long wall	2 X 3.00 X 4.77 X 0.23 X 0.75 =	4.94	
short wall	2 X 3.00 X 4.77 X 0.23 X 0.75 =	4.94	
platform long wall	1 X 2.00 X 3.30 X 0.23 X 0.75 =	1.14	
S/W	1 X 4.00 X 1.27 X 0.23 X 0.75 =	0.88	
STEP	1 X 2.00 X 1.50 X 1.5 X 0.15 =	0.68	
	1 X 2.00 X 1.50 X 1.2 X 0.15 =	0.54	
	1 X 2.00 X 1.50 X 0.9 X 0.15 =	0.41	
	TOTAL NET QTY. =	13.53	CUM
		14.00	CUM

11 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 Bd.G.5 Page No.315 Cum

L/W	2 X 3.00 X 4.77 X 0.23 X 2.65 =	17.44	
	2 X 3.00 X 4.77 X 0.23 X 2.65 =	17.44	
	TOTAL NET QTY. =	34.88	CUM
		35.00	CUM

12 Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm, to 20cm, including watering and compaction etc. complete.....(IN021-37, PgNo 201) (STATE SSR) Item Spec. (Bd. A.11 Page No. 283) CUM

Flooring	1 X 1.00 X 14.77 X 0.35 =	76.35	
	TOTAL NET QTY. =	76.35	CUM
		77.00	CUM

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

Flooring	1 X 1.00 X 14.77 X 0.20 =	43.63	
Plinth Protections			
Below plinth L/W	2 X 1.00 X 18.05 X 0.30 =	16.25	
S/W	2 X 1.00 X 15.00 X 0.30 =	13.50	
	TOTAL NET QTY. =	73.38	CUM
	SAY =	74.00	CUM

14 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.....(INo32-04. PgNo 268) (STATE SSR) Item Spec: (Bd. L.2 Page No. 368) Sqm

LW	2 X 2.00 X 14.77 X 3 =	177.24	
SW	2 X 2.00 X 14.77 X 3 =	177.24	
	TOTAL NET QTY. =	354.48	SQM
		355.00	SQM



(Signature)
(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune

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 1 kg per 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. (INo32-11, PgNo 269) (STATE SSR) Item Spec: (Bd.L.7 Page No. 369)

1 X 2.00 X 15.46 X 3 X ... =	92.76	
1 X 2.00 X 15.46 X 3 X =	92.76	
TOTAL NET QTY. =	185.52	SQM
SAY =	186.00	SQM

16 Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces (excluding the primer coat.) etc. complete. (INo36-11, PgNo 291) (STATE SSR) Item Spec: (Bd.P.5 Page No. 413)

ITEM NO 14	1 X 1.00 X 355.00 X X =	355.00	
TOTAL NET QTY. =		355.00	SQM
		355.00	SQM

17 Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. Spec.No.: Bd.O.8/Page No.406

ITEM NO 15	1 X 1.00 X 186.00 X X =	186.00	
EXTERNAL PORTIONS PAINTINGS	TOTAL NET QTY. =	186.00	SQM
		186.00	SQM

18 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.

ROOF TRUSS	1 X 1.00 X 14.77 X 14.77 X	=	218.15	
	M.F. =		28.00	kg/sqm
			6108.20	KG
			6.11	M.T
TOTAL NET QTY. =			6.11	MT

19 Providing and fixing colour coated Zinalume (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 (R) steel quality with thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 coat on back surface. Profile sheet shall have nom. 950-1050 mm width and nominal 25-30 mm deep ribs with subtle square fluting in shall in the form of nominal 180-250 mm center to center. The end rib shall be designed for anticorrosive & return leg. The feed Ridge at roofing lvl

Roofing Area	1 X 2.00 X 15.50 X 8.0 X	=	248.00	
	2 X 2.00 X 15.96 X 6.3 X	=	402.19	
	2 X 2.00 X 15.96 X 6.3 X	=	402.19	
TOTAL NET QTY. =			1052.38	SQM
			1053.00	SQM

20 Providing and fixing of colour coated Zinaluminium 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 (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 mm, comprising of nominal 25mm exterior coat on top surface and nominal 10 mm reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the form of nominal 180-250 mm center to center. The end rib shall be designed for anticorrosive & return leg. The feed Ridge at roofing lvl

	1 X 1.00 X 15.96 X 0.45	=	7.18	
TOTAL NET QTY. =			7.18	SQM
SAY =			8.00	SQM

21 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 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 32mm diameter, hood cover of M.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 etc. complete. (I.S. 6248-1979) (Without mechanical gear).... (INo39-24 , PgNo 318) (STATE SSR) Item Spec: (Bd.T.5, Page No. 510)

Rulling Shutter	1 X 1.00 X 3.30 X 3.6 X =	11.88	
TOTAL NET QTY. =		11.88	SQM
		12.00	SQM

22 Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete. Bd. T. 53, Page No. 509 & As directed by Engineer in charge.

	0 X 16.00 X 1.50 X 0.45 X =	0.00	
	0 X 14.00 X 1.50 X 1.2 X =	0.00	
TOTAL NET QTY. =		0.00	SQM
		0.00	SQM

Providing and erecting 1.5 metre high wire fencing with seven rows of barbed wires supported on M.S. Angles (50mm x 50mm x 6mm) at 2.5 Metres C to C center including excavating pits for foundation, fixing post in cement concrete 1:4 Rof size 45x45x45cm fastening the wires and painting the angles with one coat of red lead primer and two coats of painting etc complete.

1 X 1.00 X 121.95 X 1 X	=	121.95	
1 X 1.00 X 121.95 X 1 X	=	121.95	
1 X 1.00 X 45.73 X 1 X	=	45.73	



(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

TOTAL NET QTY

122.00 Rms

Deepak
(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune



(760)

Sl. No.	DESCRIPTION OF ITEM	Qty	UNIT
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-2 Additional specification No. WG-MA/PC.	15.00	Each
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-4 Additional specification No. WG-MA/PC.	20.00	Rmt
3	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia. CSR 2019-20 Item No 1-6-6 Additional specification No. WG-MA/PC.	5.00	Rmt
4	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box. CSR2019-20 Item No 1-7-7	3.00	Each
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9	0.00	kg
6	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR2019-20 Item No 5-4-1 Additional specification no. SW-SWR/MCBDB	1.00	Each
7	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/ MCB	1.00	Each
8	Supplying, erecting & marking DFMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB	2.00	Each
9	Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP	1.00	Each



Deepak Pawar
(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune

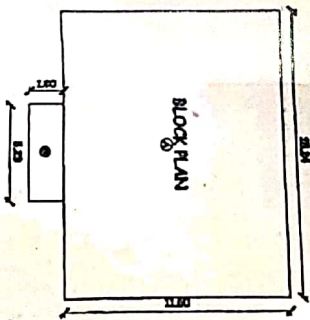
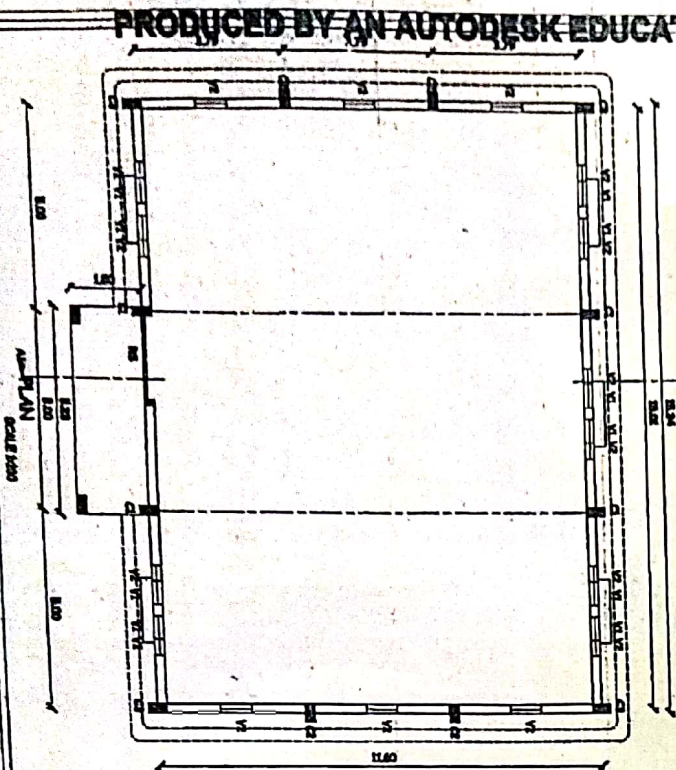
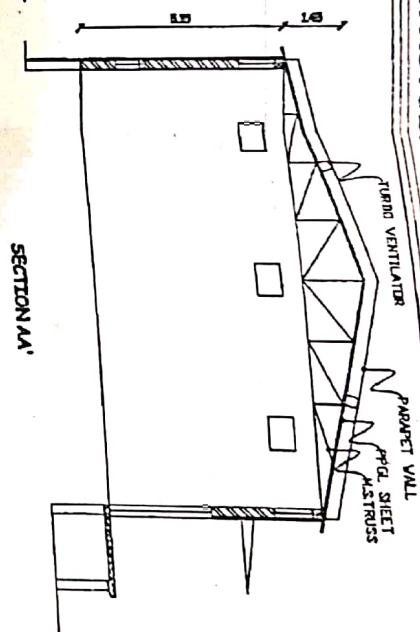
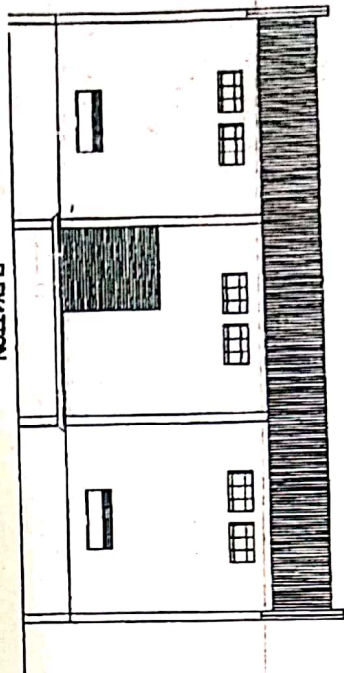
362

- 10 Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with earth wire (SWG) G.I. earth wire complete erected with glands & lugs, on wall/ truss/pole or laid in provided trench pipe. CSR 2019-20 Item NO 7-1-30 Additional specification No CB-LT/AL
- 4.00 Rmt
- 11 Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10
- 3.50 Rmt
- 12 Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. CSR 2019-20 Item No 7-7-4 Additional specification No. CB-GI.
- 2.00 Each
- 13 Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU
- 2.00 Each
- 14 Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCDBB
- 1.00 Each
- 15 Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete. CSR 2019-20 Item No 2-5-4 Additional specification No. FGODF/ FLS2.
- 1.00 Each
- 16 Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC
- 1.00 Each
- 17 Providing and fixing copper strip 25mm wide and 3mm thick for lightening conductor including fixing with screws required scaffolding etc. complete Note- Lightening conductor and earthing pits is not considered in this item. CSR 2019-20 Item No 44-19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer in Charge
- 2.00 Rmt

Deepak Pawar
(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune



PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



BUILT UP AREA CALCULATIONS
BUILDING SIZE (PROPOSED)
MAIN BUILDING A) = 15.24M X 11.60M = 176.78 SQ.M.
PLATFORMS B) 1 NOS 5.23M X 1.80M = 9.41 SQ.M.
TOTAL BUILT UP = 186.19 SQ.M.

STAMP OF APPROVAL

AREA STATEMENT

TOTAL PLOT AREA	
TOTAL GROUND FLOOR AREA	
TOTAL FIRST FLOOR AREA	
TOTAL REAR FLOOR AREA	
TOTAL PROPOSED AREA	

SCHEDULE OF OPENING

N1 - 2.5M X 1.0M	N2 - 1.0M X 1.0M
V1 - 1.0M X 1.0M	V2 - 1.0M X 1.0M

LEGENDS

FLAT BOUNDARY BROWN	BLACK
PROPOSED WALL BROWN	RED DOTTED
EXISTING WALL BROWN	GREEN
EXISTING AREA BROWN	

OWNER SIGN

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune



Chairman
Secretary
Maleshwar Producer Company Ltd.
Waked Tq. Kamrad Dist. Aurangabad

VAKESHWAR PRODUCER COMPANY Ltd.
A/P-WAKAD(548276) Tal.:-KANNAD Dist. :- AURANGABAD.
RECAPITULATION SHEET

NAME OF WORK :- CONSTRUCTION OF 1/1000 M.T CAP. PRE ENGINEERED W H BUILDING WITH ANCILLARY WORKS

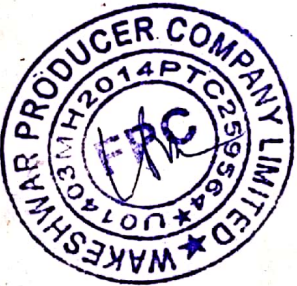
PARTICULARS	AMOUNT IN RS.	1000	Cost per MT	Cost Per SQM
		FINAL		
1 SUB WORK I :- Civil work	Rs 8693773.00		8693.77	13096.55
2 SUBWORK II :- Electrification Work	Rs 130758.00		130.76	196.98
3 SUBWORK IV:- Testing Report	Rs 38760.00		38.76	58.39
4 SUBWORK III:- Royalty Charges	Rs 284019.00		284.02	427.85
5 Sub Work No:-V :-WBM Road	Rs. 1411540.00			
	<u>Total</u> Rs 10558850.00		10558.85	15906.16
5 Add 12% GST 12%	Rs 1267062.00		1267.06	1908.74
6 Add 0.5% Labour Insurance 0.5%	Rs 52794.25		52.79	79.53
	<u>Total</u> Rs 11878706.25		11878.71	17894.43
	Grand total Rs. 11878706		11878.71	17894.43

Prepared by

Checked by

Deepak Pawar
(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

(657)



NAME OF WORK :- CONSTRUCTION OF 1/1000 M.T CAP. PRE ENGINEERED W H BUILDING WITH ANCILLARY WORKS

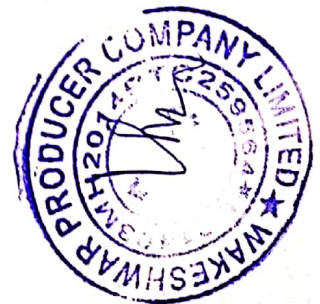
LEADS & RATES OF MATERIALS

BASED ON STATE SSR 2021-22

S.N.	MATERIAL & LOCATION	UNIT	Lead.in KM	Actual lead	LEAD DIFF.	Pay load	Factor	NET	Rate /unit
			4	5	6	7	8		9
1	SAND	CU M	5	229.63	229.63	1.00	1.00	229.63	229.63
2	CRUSHED METAL UPTO 40 MM	CU M	10	299.83	299.83	1.00	1.00	299.83	299.83
3	METAL ABOVE 40 MM	CU M	10	287.34	287.34	1.00	1.00	287.34	287.34
4	RUBBLE	CU M	10	366.82	366.82	1.00	1.00	366.82	366.82
5	BRICKS	1000 NOS	5	479.26	479.26	1.00	1.00	479.26	479.26
6	HARD MURUM	CU M	5	220.06	220.06	1.00	1.00	220.06	220.06
7	SOFT MURUM	CU M	5	220.06	220.06	1.00	1.00	220.06	220.06
8	ROYALTY CHARGES	CU M	1	237.37		1.00	1.00	0.00	0.00

Jr. Engineer

Sectional Engineer



Deepak Pawar
(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

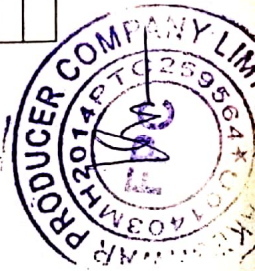
623

NAME OF WORK :- CONSTRUCTION OF 1/1000 M.T CAP. PRE ENGINEERED W H BUILDING WITH ANCILLARY WORKS

SUBWORK IV:- Testing Report

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	649.88	Bags	Fineness, Standard Consistency, Setting Time (Initial & Final), Compressive strength, Soundness	1	3770.00	3770.00	one test per 1000 Bags
2	Concrete M-10 grade	118.44	cum	i)Concrete cube compressive strength (Set of 3 Cubes)	4	690.00	2760.00	1 test for 15 cum
3	Concrete M-20 grade	113.00	cum	i)Mix Design with all tests on basic materials	1	16250.00	16250.00	One per 500 cum of concrete
				ii)Concrete cube compressive strength (Set of 3 Cubes)	7	690.00	4830.00	1 test for 15 cum
5	Crushed metal for concrete	140.23	cum	i)Water absorption, Specific gravity, Impact value, Crushing value	1	2600.00	2600.00	one test per 1000 cum per source / change in source.
6	Bricks	68400.00	cum	Crushing value, Water absorption, & Specific Gravity	1	2175.00	2175.00	one test per 50000 Nos. of bricks or part.
8	TMT steel bars	10.00	M.T.	Tensile strength, Yield stress, ultimate tensile stress, %elongation, weight per running meter, Bend/Rebend test.(Set of 3 Bars)	1	1595.00	1595.00	1 test per 10.00 M.T. and one for each dia. Of use bar
9	Sand	140.23	cum	Fineness Modulus, silt & clay content.	1	1380.00	1380.00	1 test per source
10	Murum in plinth	632.00	cum	i)Plasticity Index	1	1170.00	1170.00	1 test per 1000 Cum.
				ii) Field Density of compacted layer	2	1115.00	2230.00	1 test per 250 Sq.m
				TOTAL			38760.00	



559

(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

2	P & C U.C.R masonry	METAL	0.94	299.83	281.84
		SAND	0.35	229.63	80.37
		RUBBLE	1.16	366.82	425.51
3	P & C B.B. masonry in plinth & S.S	SAND	0.32	229.63	73.48
		BRICKS	0.475	479.26	227.65
4	P & L.R.C.C. (M-20) 1:1.5:3	SAND	0.425	229.63	97.59
		METAL	0.85	299.83	254.86
4-A	P & L.R.C.C. 1:2:4	SAND	0.425	229.63	97.59
		METAL	0.85	299.83	254.86
5	P & A 12 mm tk plaster	SAND	0.015	229.63	3.44
6	P & A 20 mm tk plaster	SAND	0.025	229.63	5.74
7	P & F polished shahabad for sills & dado	SAND	0.022	229.63	5.05
8	P & C half brick wall	sand	0.034	229.63	7.81
		bricks	0.12	479.26	57.51
9	P & a flush pointing in c.m.1:3 for stone masonry	sand	0.003	229.63	0.69
10	M.S.Channel	KG		0.00	0.00
11	Wind ties 1.90 kg / mtr	RMT		0.00	0.00
12	M.S.angle sill 4.68 kg / mtr.	RMT		0.00	0.00
13	M.S.ladder 18.40 kg/ mtr.	RMT		0.00	0.00
14	V1 & V2 vents 43.33 kg/m2.	SQM.		0.00	0.00
15	P & L.R. C. C. M30	SAND	0.425	0.00	0.00
		METAL	0.85	0.00	0.00

The centre falls under sugarcane area / corporation /Trible
Hence percentage required to be added will be percentage
Municipal Council Area
TOTAL
Dedn for SCADA

Building
0.00%
4.00%
4.00%
-25.00%

Road
0.00%
10.80%
10.80%
5.00%



Lawal
(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

695

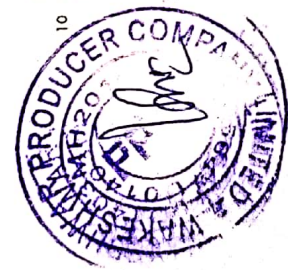


0

VAKESHWAR PRODUCER COMPANY Ltd.
NAME OF WORK :- CONSTRUCTION OF 1/1000 M.T CAP. PRE ENGINEERED W H BUILDING WITH ANCILLARY WORKS

SUB WORK 1 :- Civil work

I.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES					LIFTS & RA	TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	RA	6 TO 11					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
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	242.00	CUM	21.01/148	232.00	-120.00					232.00	0.00	232.00	56144.00		
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and	116.00	CUM	21.05/148	354.00						354.00	0.00	354.00	41064.00		
3	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/quartzite/ gneiss metal for foundation and bedding including bailing out water,	203.00	CUM	24.01/169	5538.00	-120.00	97.59	254.86			5770.45	0.00	5770.45	1171401.00		
4	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundation,	35.00	cum	25.11/172	6666.00	-120.00	97.59	254.86			6898.45	0.00	6898.45	241446.00		
5	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 drawings or	30.00	cum	25.31/173	12987.00	-120.00	97.59	254.86			13219.45	0.00	13219.45	396584.00		
6	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	34.00	cum	25.50/175	11483.00	-120.00	97.59	254.86			11715.45	0.00	11715.45	398325.00		
7	Providing and casting in situ cement concrete M-20 of trap/Granite/ quartzite/ gneiss metal for R.C.C. chhajja as per detailed designs and drawings including centering, formwork, cover blocks compaction finishing the formed	3.00	CUM	26.05/176	13111.00	-120.00	97.59	254.86			13343.45	0.00	13343.45	40030.00		
8	Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work in slabs as per detailed drawing and design as directed including dewatering if necessary	11.00	cum	26.05/176	13943.00	-120.00	0.00	97.59			13920.59	0.00	13920.59	153126.00		
9	Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen etc.	639.00	SQM	33.30/277	746.00	-120.00	97.59	254.86			978.45	0.00	978.45	625230.00		
10	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,	10.00	MT	26.33/182	71778.00						71778.00	0.00	71778.00	717780.00		



(DEEPA PANWAR)
Associate Civil Expert
Smart Project Pune

672

NAME OF WORK :- CONSTRUCTION OF 1/1000 M.T CAP. PRE ENGINEERED W H BUILDING WITH ANCILLARY WORKS

SUB WORK 1 :- Civil work

I.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES				LIFTS & RA	TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	RA					
2		3	4	5	6	7	8	9	10	11	12	13	14	15	
	Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external	28.00	Cum	27.01/189	7343.00	-120.00	227.65				7570.65	0.00	7570.65	211978.00	
	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,	116.00	Cum	27.05/254	7570.00		227.65				7797.65	0.00	7797.65	904527.00	
	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm, to 20cm, including watering	448.00	CUM	21.37/152	550.00						550.00	0.00	550.00	246400.00	
	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. Complete	218.00	CUM	21.40/152	1322.00						1322.00	0.00	1322.00	288196.00	
	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding	707.00	sqm	32.04/268	264.00	3.44					267.44	0.00	267.44	189080.00	
	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	900.00	sqm	32.11/201	599.00	3.44					602.44	0.00	602.44	542196.00	
	Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces.	707.00	SQM	36.11/291	43.00						43.00	0.00	43.00	30401.00	
	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary,	900.00	SQM	35.16/216	91.00						91.00	0.00	91.00	81900.00	

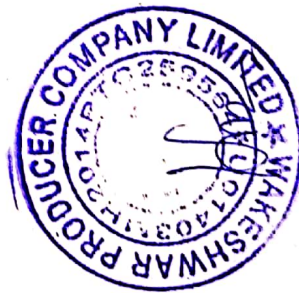


(DEEPA TAWAR)
Associate Civil Expert
Smart Project Pune

SUB WORK I :- Civil work

I.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES							TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT	
							SAND	METAL	Royalty	LIFTS & RA	6 TO 11	12 TO 13	14					15
1	2	3	4	5	6	-120.00	8	9	10	11	12	13	14	15				
19	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	14.00	MT	23.01/167	89181.00										89181.00	0.00	89181.00	1248534.00
20	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	709.00	SQM	38.34/227	1095.00										1095.00	0.00	1095.00	776355.00
21	Providing and fixing of colour coated Zincaluminium R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The feed material is manufactured out	17.00	SQM	38.35/228	702.00										702.00	0.00	702.00	11934.00
22	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	10.50	SQM	39.24/318	4310.00										4310.00	0.00	4310.00	45255.00
23	Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass	29.00	sqm	39.30/319	4449.00										4449.00	0.00	4449.00	129021.00
24	Providing and fixing wind apperated tarbo ventilator system (24 inch dia.) over existing roof including cutting of sheet ,proper fixing in position to true line & level with	10.00	No.	42/374	8680.00										8680.00	0.00	8680.00	86800.00
25	Providing preconstructional antitermite treatment as per I.S.6313 (Part-II) by treating the top surface of plinth filling at the rate of 5litres of emulsion concentrateat 1.0	639.00	sqm	21.24/117	94.00										94.00	0.00	94.00	60066.00

TOTAL RS 8693773.00



(Signature)
(DISEPAN PAWAR)
 Associate Civil Expert
 Smart Project Pune

1691

SUB WORK I :- Civil work

BASED ON STATE SSR 2021-22

I.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scade	LEAD CHARGES							TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	LIFTS & RA	6 TO 11	12	13				
1	2	3	4	5	6	-120.00	7	8	9	10	11	12	13	14	15		
SUBWORK II :- Electrification Work																	
1	Supplying & erecting mains with 2x1.5 sq.mm. and earth	85.00	Each	1-6-2/11	120.00							120.00	0.00	120.00	10200.00		
2	Supplying & erecting mains with 2x2.5 sq.mm. and earth	85.00	Rmt	1-6-4/11	139.00							139.00	0.00	139.00	11815.00		
3	Supplying & erecting mains with 2x4 sq.mm. and earth	10.00	Rmt	1-6-6/11	167.00							167.00	0.00	167.00	1670.00		
4	Supplying and erecting Ceiling rose / Balten holder /	8.00	Each	1-7-7/13	35.00							35.00	0.00	35.00	280.00		
5	Supplying and erecting hylam sheet/ ebonite sheet 3 mm	25.00	kg	6-1-9/114	929.00							929.00	0.00	929.00	23225.00		
6	Supplying and erecting triple pole and neutral distribution	2.00	Each	5-4-1/98	1775.00							1775.00	0.00	1775.00	3550.00		
7	Supplying, erecting & marking FPMCB 40A to 63A in	2.00	Each	5-3-17/97	1298.00							1298.00	0.00	1298.00	2596.00		
8	Supplying, erecting & marking DPMCB 6 A to 32 A B-	3.00	Each	5-3-7/96	460.00							460.00	0.00	460.00	1380.00		
9	Supplying & erecting conventional spike Providing	1.00	Each	9-1-3/161	5476.00							5476.00	0.00	5476.00	5476.00		
10	Supplying, erecting & terminating XLPE armoured cable 4	60.00	Rmt	7-1-30/128	236.00							236.00	0.00	236.00	14160.00		
11	Supplying and laying (including excavation of suitable	50.00	Rmt	7-6-10/140	227.00							227.00	0.00	227.00	11350.00		
12	Supplying & erecting Siemens type brass cable glands for	3.00	Each	7-7-4/141	86.00							86.00	0.00	86.00	258.00		
13	Supplying & erecting crimping type copper lugs for cable	6.00	Each	7-9-2/142	25.00							25.00	0.00	25.00	150.00		
14	Supplying and erecting single pole and neutral	1.00	Each	5-4-14/99	771.00							771.00	0.00	771.00	771.00		
15	Supplying and erecting LED Street light fitting suitable for	4.00	Each	2-5-4/35	3646.00							3646.00	0.00	3646.00	14584.00		
16	Supplying and erecting Street light bracket made from 40	4.00	Each	2-9-2/40	635.00							635.00	0.00	635.00	2540.00		
17	Item No 44.1.B Additional Spec No:BDW 1 PAGE No 581	1.00	0	44.18	22189.00							22189.00	0.00	22189.00	22189.00		
18	Providing and fixing copper strip 25mm wide and 3mm	7.00	Rmt	44.19/581	652.00							652.00	0.00	652.00	4564.00		

TOTAL RS 130758.00



(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

683

SUB WORK :- Civil work

I.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES							TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	LIFTS & RA	6 TO 11	12 TO 13	14				
1	2	3	4	5	6	-120.00	7	8	9	10	11	12	13	14	15		
Sub Work No:-V :-WBM Road																	
1	Item No. 1-A :- Excavation for side gutters & road formation in earth soil of all type sand gravel including	288.00	cum	2.11/23	104.00	0.00	0.00	0.00	0.00	0.00	0.00	104.00	0.00	104.00	29952.00		
2	Item No. 1-B :- Excavation for roadway & side gutters in hard murum, dressing section to the required grade	5.00	cum	2.13/23	121.00	0.00	0.00	0.00	0.00	0.00	0.00	121.00	0.00	121.00	605.00		
3	Item No. 1-C :- Excavation for roadway & side gutters in soft rock dressing section to the required grade camber	1.00	cum	2.14/23	157.00	0.00	0.00	0.00	0.00	0.00	0.00	157.00	0.00	157.00	157.00		
4	Item No. 2 :- Supplying Soling of trap stone metal at the road side including conveying & stacking etc. complete.	0.00	cum	21.38	1050.00	0.00	0.00	0.00	0.00	0.00	0.00	1050.00	0.00	1050.00	0.00		
5	Item No. 3 :- Supplying 60 mm trap stone metal at the road side including conveying & stacking etc. complete.	198.00	cum	02/383	823.00	0.00	0.00	0.00	0.00	0.00	0.00	823.00	0.00	823.00	162954.00		
6	Item No. 4 :- Supplying 40 mm trap stone metal at the road side including conveying & stacking etc. complete.	476.96	cum	02/383	823.00	0.00	0.00	0.00	0.00	0.00	0.00	823.00	0.00	823.00	392334.00		
7	Item No. 5 - A :- Supplying hard murum at the road side including conveying & stacking etc. complete.	62.00	cum	25/383	288.00	0.00	0.00	0.00	0.00	0.00	0.00	288.00	0.00	288.00	17836.00		
8	Item No. 5 - B :- Supplying soft murum at the road side including conveying & stacking etc. complete. (Rd.24 / P. 203)	29.00	cum	24/383	285.00	0.00	0.00	0.00	0.00	0.00	0.00	285.00	0.00	285.00	8265.00		
9	Item No. 6- A :- Spreading hardmurum at the road side including conveying & stacking etc. complete.	62.00	cum	2.3/24	74.00	0.00	0.00	0.00	0.00	0.00	0.00	74.00	0.00	74.00	4588.00		
10	Item No. 6- B :- Spreading soft murum over size metal as blidage as directed etc. complete.	29.00	cum	2.3/24	74.00	0.00	0.00	0.00	0.00	0.00	0.00	74.00	0.00	74.00	2146.00		
11	Item No. 7 :- Spreading Soling of trap stone metal including sectioning as directed etc. complete.	0.00	cum	2.3/24	74.00	0.00	0.00	0.00	0.00	0.00	0.00	74.00	0.00	74.00	0.00		
12	Item No. 8 :- Spreading 60 mm trap stone metal including sectioning as directed etc. complete.	198.00	cum	2.3/24	74.00	0.00	0.00	0.00	0.00	0.00	0.00	74.00	0.00	74.00	14652.00		
13	Item No. 9 :- Spreading 40 mm trape stone metal including sectioning as directed etc. complete.	127.00	cum	2.3/24	74.00	0.00	0.00	0.00	0.00	0.00	0.00	74.00	0.00	74.00	9398.00		
14	Item No. 10 - A :- Compacting oversize metal layer with H. M. with power roller including artificial watering & nesy. Labour etc. complete.	961.00	sqm		35.00	0.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00	35.00	33635.00		

(Signature)
 (DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune



688

NAME OF WORK :- CONSTRUCTION OF 1/1000 M.T CAP. PRE ENGINEERED W H BUILDING WITH ANCILLARY WORKS

SUB WORK 1 :- Civil work

LN.	DESCRIPTION OF ITEM	QUANTITY	UNIT	LN./ P.N	BASIC RATE	Dedn Scada	LEAD CHARGES					TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	LIFTS & RA	6 TO 11					12 TO 13	14	15
1		3	4	5	6	7	8	9	10	11	12	13	14	15	
15	Item No. 10 - B :- Compacting size metal layer with S. M. with power roller including artificial watering & nescy. Labour etc. complete.	961.00	sqm	2.31/24	35.00		0.00				35.00	0.00	35.00		33635.00
16	Item No. 11 :- Compacting hard murum side width layer on each side with power roller including artificial watering etc. complete.	55.50	sqm		19.00		0.00				19.00	0.00	19.00		1055.00
17	Item No. 12 :- providing & fixing R. C. C. 1:2:4 guard stones as per type design including painting numbering fixing in std. Size C. C. 1:4:8 block complete.	35.00	NO	11.27/63	963.00		0.00				963.00	0.00	963.00		33705.00
18	Item No (13-A) :- Excavation for foundation in earth soil of all types sand, gravel & soft murum, depth upto 1.50	10.50	cum	21.02	193.00		0.00				193.00	0.00	193.00		2027.00
19	Item No (13-B) :- Excavation for foundation in hard murum depth upto 1.50m including removing the	5.00	cum	21.06	212.00		929.00				1141.00	0.00	1141.00		5765.00
20	Item No (13-C) :- Excavation for foundation in H.M. & boulder upto 1.50 meters including removing the	5.00	cum	21.1	235.00		1775.00				2010.00	0.00	2010.00		10650.00
21	Item No (14) :- Providing & laying in situ cement concrete M-10 of trap metal for foundation & bedding including	2.00	cum	24.01	5538.00	-120.00	1298.00				6716.00	0.00	5770.45		1171401.00
22	Item No (15) :- Providing U.C.R. masonry of trap stones in C.M. 1:6 in foundation & plinth including dewatering.	4.00	cum	28.01	4757.00		460.00				5217.00	0.00	5217.00		20868.00
23	Item No (16) :- Providing & fixing in position TMT reinforcement of various diameters for R.C.C. foundations	0.40	MT	26.33	71778.00		0.00				71778.00	0.00	71778.00		23711.00
24	Item No (17) :- Providing & laying in situ cement concrete M-20 of trap metal for R. C. C. work in beams and lintels	2.00	cum	25.5	11483.00	-120.00	236.00				11599.00	0.00	11599.00		23198.00
25	Item No (18) :- Providing cement plaster 20 mm thick in two coats in C. M. 1 : 4 with slurry finish to concrete or	12.00	sqm	32.07/08	742.00		0.00				742.00	0.00	742.00		8904.00
26	Item No (19) :- Providing pointing with Cement Mortar (1:3) for stone masonry including scaffolding curing etc.	1.00	sqm	32.16	163.00		86.00				249.00	0.00	249.00		249.00
27	Item No(20) :- providing & laying C. C. pipe of NP2 class 450mm dia metre in proper line, level & slope including	0.00	Rm	11.08	1927.00		25.00				1952.00	0.00	1952.00		0.00
28	Item No(21):- Supplying & spreading Hard murum for cushioning of R C pipe including watering ramming &	0.00	cu m	0	0.00		0.00				0.00	0.00	0.00		0.00
29	Item No (22) :- Providing & laying in situ cement concrete M-15 of trap metal for coping to column & compound wall	0.00	cu m	0	0.00		0.00				0.00	0.00	0.00		0.00



DR. JAY PRAJESH PAWAR
 / Associate Civil Expert
 Smart Project Pune

NAME OF WORK :- CONSTRUCTION OF 1/1000 M.T CAP. PRE ENGINEERED W H BUILDING WITH ANCILLARY WORKS

SUB WORK 1 :- Civil work

I.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N	BASIC RATE	Dedn Scada	LEAD CHARGES							TOTAL OF RATE	ADD % for Area	TOTAL OF RATE	AMOUNT
							SAND	METAL	Royalty	LIFTS & RA	6 TO 11	12 TO 13	14					15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
30	Item No (23) :- Preparing embankment with approved materials obtained from the cutting within a lead of 50 m	5.00	cum	2.28	546.00	-120.00	0.00	0.00	0.00	0.00	546.00	0.00	0.00	0.00	546.00	2730.00	
31	Item No (24) :- Providing earthwork for embankment with materials obtained from other sources with all leads & lift	0.00	CUM	0	0.00	22189.00	0.00	0.00	0.00	0.00	22189.00	0.00	0.00	0.00	22189.00	0.00	
32	Item No (25) :- Conveying the materials obtained from excavation including all lifts, laying in layers, breaking	5.00	Cum	2.25	177.00	0.00	0.00	0.00	0.00	0.00	177.00	0.00	0.00	0.00	177.00	885.00	
33	Item No (26) :- Conveying the materials obtained from exca	288.00	cum		237.56	0.00	0.00	0.00	0.00	0.00	237.56	0.00	0.00	0.00	237.56	68417.00	

1411540.00

Jr.Engineer

Sectional Engineer



(DEEPAK PAWAR)
Associate Civil Expert
Smart Project Pune

689

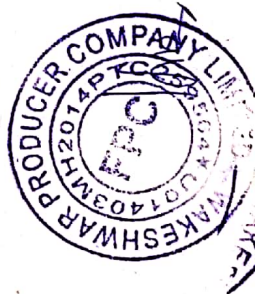
VAKESHWAR PRODUCER COMPANY Ltd.

A/P-WAKAD(548276) Tal.:KANNAD Dist.:- AURANGABAD.

NAME OF WORK :- CONSTRUCTION OF 1/1000 M.T CAP. PRE ENGINEERED W H BUILDING WITH ANCILLARY WORKS

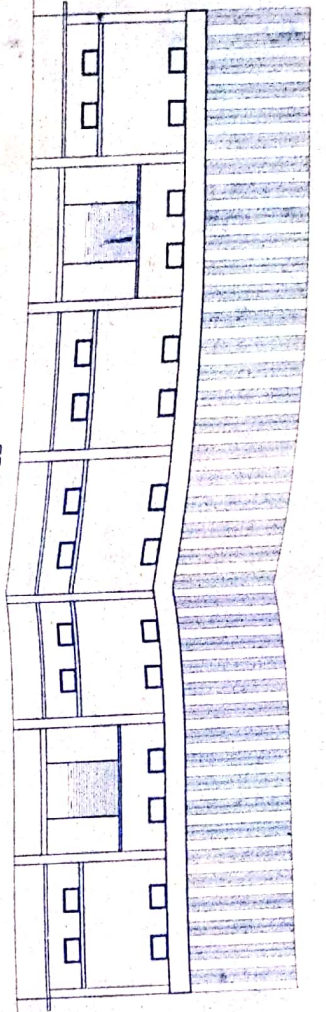
SUBWORK III:- Royalty Charges

Item.. No.	Description of item	Executed Quantity	Quantity of Material for Royalty			Cu. M	Rubble / Rd metal	Remark
			Cement in bags	SAND	Crusher METAL			
			4	5	6	7	8	9
1	2	3						
3	Providing and laying Cast in situ/Ready Mix cement	203.00		86.275				
4	Providing and laying Cast in situ/Ready Mix cement	35.00		14.875				
5	Providing and laying Cast in situ/Ready Mix cement	30.00		12.75				
6	Providing and laying Cast in situ/Ready Mix cement	34.00		14.45				
7	Providing and casting in situ cement concrete M-20 of	3.00		1.275				
8	Providing & laying in situ cement concrete M-20 of trap	11.00		26.675				
9	Providing and laying in situ cement concrete M-20 with	639.00		271.58				
11	Providing second class Burnt Brick masonry with	28.00		8.96				
12	Providing second class Burnt Brick masonry with	116.00		37.12		1.2	537.60	
13	Filling in plinth and floors with contractors	448.00						
14	Providing soiling using 80 mm size trap metal in 15 cm.	218.00					1.32	287.8
15	Providing internal cement plaster 12mm thick in single	707.00		10.605				
16	Providing sand faced plaster externally in cement	900.00		29.7				
Total			0.00	514.26	0.00	537.60	287.76	

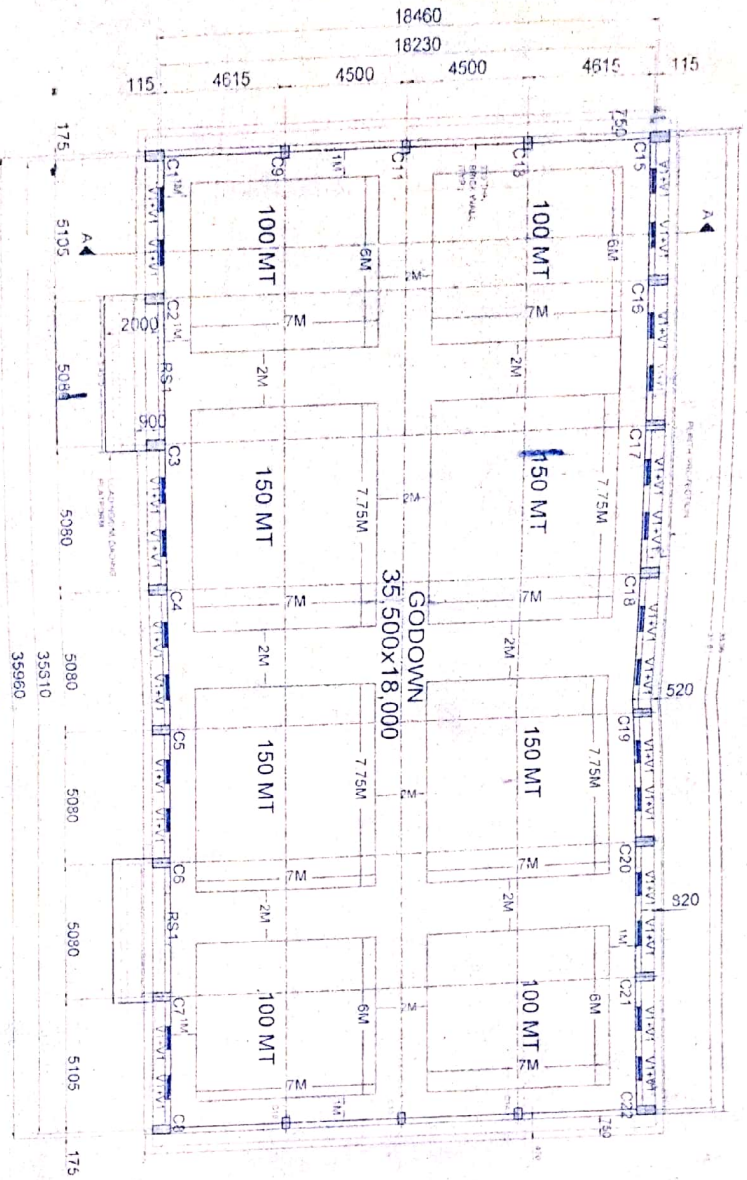


Deepak Pawar
(DEEPAK PAWAR)
 Associate Civil Expert
 Smart Project Pune

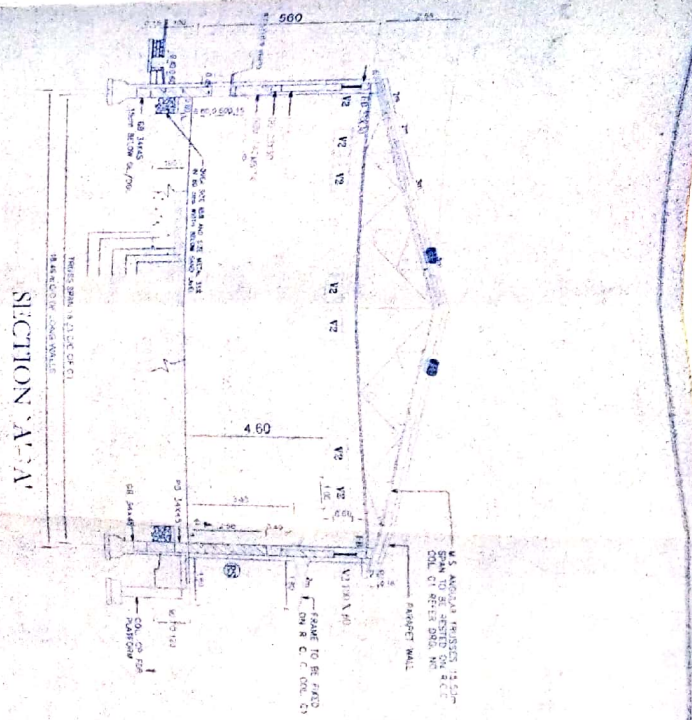
691



FRONT ELEVATION
SCALE - 1:100



PLAN
SCALE - 1:100



SECTION A-A'

BUILT UP AREA CALCULATIONS

Category	Area (sq. m)
MAIN BUILDING	623.82 SQ. M
SO. M	21.80 SQ. M
PLATFOORM	35.99 X 18.46
TOTAL PLATFOORM AREA	5.45M X 2.0M 2 NOS.
GROSS BUILT UP AREA	681.61 SQ. M

SCHEDULE OF R. C. C. COLUMNS

TYPE	SIZE	NO.	REMARKS
C1	30 X 50	12	4 LONG WALLS
C2	30 X 50	4	4 CORNER WALLS
C3	30 X 50	4	4 CORNER WALLS
C4	15 X 35	4	TO BE PROTECTED ON TOP BY 45 SHANKS
CP	57 X 25	4	FOR PLATFOORM BEAM

SCHEDULE OF ROLLING SHUTTERS/MENTALATORS

TYPE	NO.	DESCRIPTION
RS	21	ROLL AND SHUT FOR C20 7500 SHUT
VS	6	STEEL ROOFING FOR VENTILATION WITH 18mm TO BE FIELD BY 18mm SHUT. 18mm TO BE FIELD BY 18mm SHUT. 18mm TO BE FIELD BY 18mm SHUT. 18mm TO BE FIELD BY 18mm SHUT.
VZ	100	FOR PLATFOORM

(DEEPAK PARMAR)
Associate Civil Engineer
Smart Project Pune

Wakashwar Producer Company Ltd.
Washed Rd, Kenned Diat Aurangabad