

GOVERNMENT OF MAHARASHTRA

# ESTIMATE

**NAME OF WORK :-**

**Construction of Godown at Ghoti , Tal. Sinnar Dist. Nashik.**

**ESTIMATED COST : ₹ 16.00 Lacs**

**SSR 2021-22**

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NAME OF WORK :-

Construction of Godown at Ghoti , Tal. Sinnar Dist. Nashik.

RECAPITULATION SHEET

Work Portion		₹	13,80,049.00
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	(A)	₹	13,80,049.00
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Add For Testing Charges		₹	18,215.00
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Add For Royalty Charges		₹	22,327.77
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	(A+B)	₹	14,20,591.77
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Add for GST on (A)	12%	₹	1,65,606.00
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Add For Labour Insurance on (A)	1.0%	₹	13,800.00
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Total		₹	15,99,997.77
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Say		₹	16,00,000.00
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*H.K. Dhamant*  
 H.K. Dhamant  
 Chartered Engineer  
 Reg. No. AM157896-3

Qty.	Description	Rate	Per	Amount
	Laboratory testing Charges required for material testing on the basis of testing frequency and charges fixed by Vigilance and quality control circle, Pune for the year 2021-22, as per Superintending Engineer, Vigilance and quality control Circle, Pune, Letter			
	<b>Steel</b>			
1	Tensile Strength, % Elongation, Yield Stress, Wt. per Rmt, Bend/Rebend Test, Proof Stress	1595.00	Test	1595.00
	<b>Bricks</b>			
1	Water Absorption, Comp. Strength, Efflorescence	2175.00	Test	2175.00
	<b>M20 Cement Concrete</b>			
1	Comp. St. of Cube	690.00	Test	690.00
1	Conc. Mix. Design	13755.00	Test	13755.00
				₹ 18,215.00

Royalty Charges as per Revenue and Forest Department's notification dated 11/02/2010 as Maharashtra Minor Mineral Extraction Rules, 2010 and as per instruction in general notes on SSR 2021-2022 in P.W. Sanctioned schedule of rates for year 2021-2022 for items of lime stone, lime shell, stones, rubble, stone dust, shingles, gravel, murum, kankar, ordinary clay, ordinary earth (to be used for embankment and filling), slate and shell etc. Spec. No.: As directed by Engineer-in-charge.

17.34	For Other Material	216.18	Cu.M.	18881.16
4.52	For Sand	237.37	Cu.M.	3446.61
<b>Total</b>				₹ 14,20,591.55

<b>Say</b>				₹ 14,20,592.00
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 Harshad K. Bhatnare  
 Chartered Engineer  
 Reg. No. AM/157806-3

ME OF WORK :-

Construction of Godown at Ghoti , Tal. Sinnar Dist. Nashik.

MEASUREMENT

Estimate : Godown

Description	NO.	L	B	D/H	Qty.
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 SSR 2021-22 Item No. 21.02					
For Col Footing	6	1.80	1.80	1.49	28.97 Cu.M.
For GB	4	3.46	0.38	0.20	1.05 Cu.M.
	2	9.50	0.38	0.20	1.44 Cu.M.
	1	1.75	1.20	0.45	0.95 Cu.M.
Total Qty. of Excavation					32.41 Cu.M.

Qty. taken Soil 40% **Total Qty 12.96 Cu.M.**

Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres, beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5m.) By Mechanical Means  
SSR 2021-22 Item No. 21.10

Total Qty. of Excavation 32.41 Cu.M.

Qty. taken Soil 40% **Total Qty 12.96 Cu.M.**

Excavation for foundation in Soft rock and old cement or lime masonry foundations including removing the excavated material upto a distance of 50 metres beyond the building area and stacking as directed, including dewatering, preparing the bed for the foundation and necessary back filling with available earth /murum, ramming, watering including shoring and strutting etc.  
SSR 2021-22 Item No. 21.14

Total Qty. of Excavation 32.41 Cu.M.

Qty. taken Soil 20% **Total Qty 6.48 Cu.M.**

Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)  
SSR 2021-22 Item No. 24.01

In Foundation	0.10 M. thk				
For Col Footing	6	1.80	1.80	0.10	1.94 Cu.M.
Below GB	4	3.46	0.38	0.05	0.26 Cu.M.
	2	9.50	0.38	0.05	0.36 Cu.M.
For Steps	1	1.75	1.20	0.10	0.21 Cu.M.
On Plinth	0.10 M. thk				
Godown	1	7.60	10.40	0.10	7.90 Cu.M.

Harshad K. Bhamare  
Chartered Engineer  
Reg. No. AME/57896-3

\\CW\2021-22\Contr\Binnar\Industrial Shed\_Godown

Description	NO.	L	B	D/H	Qty.
<b>Total Qty</b>					<b>10.67 Cu.M.</b>

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

SSR 2021-22 Item No. 21.37

Murum Filling	(1 - 0.1 - 0.23 = 0.67 M.)				
Godown	1	7.14	9.94	0.67	47.55 Cu.M.
<b>Total Qty</b>					<b>47.55 Cu.M.</b>

Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.

SSR 2021-22 Item No. 21.36

Qty. for approved material as per Items executed in Column Footing Pits	28.97 Cu.M.	
Qty. of Footing as per Item No. 8	-6.75 Cu.M.	
Qty. of Col. Upto GL as per Item No. 9	-1.29 Cu.M.	
<b>Total Qty</b>		<b>20.93 Cu.M.</b>

Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.

SSR 2021-22 Item No. 21.38

Rubble Soling	0.23 M. thk				
Godown	1	7.14	9.94	0.23	16.32 Cu.M.
Below Footing	6	1.80	1.80	0.23	4.47 Cu.M.
For Steps	1	1.75	1.20	0.23	0.48 Cu.M.
<b>Total Qty</b>					<b>21.27 Cu.M.</b>

Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with 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)

SSR 2021-22 Item No. 25.11

Box Footing	6	1.50	1.50	0.500	6.75 Cu.M.
<b>Total Qty</b>					<b>6.75 Cu.M.</b>

Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully 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)

SSR 2021-22 Item No. 25.31

Upto GL	3.14	6	0.230	0.450	0.66	1.29 Cu.M.
Upto Plinth	3.14	6	0.230	0.450	1.00	1.95 Cu.M.
<b>Total Qty</b>						<b>3.24 Cu.M.</b>

Harshad K. Bhamare  
Chartered Engineer  
Reg. No. AM157296-3

Description	NO.	L	B	D/H	Qty.
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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)

SSR 2021-22 Item No. 25.50

Beam @ Gr. Level.

GB1	4	3.46	0.23	0.45	1.43 Cu.M.
GB2	2	9.50	0.23	0.45	1.97 Cu.M.
B3	1	9.50	0.23	0.45	0.98 Cu.M.
<b>Total Qty</b>					<b>4.38 Cu.M.</b>

- 11 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.

SSR 2021-22 Item No. 26.33

Item	Requirement of steel per unit in "kg."	Qty. of item	Total Qty. of steel in "kg."
Column footings	90 kg/cum	6.750	607.50 kg
Column	100 kg/cum	3.240	324.00 kg
Beams	110 kg/cum	4.380	481.80 kg
RCC Coping	60 kg/cum	0.000	0.00 kg
<b>Total</b>			<b>1413.30 kg.</b>

**Total Qty 1.413 M.T.**

- 12 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.

SSR 2021-22 Item No. 23.01

Base Plate 10 mm Thick	T & B	6	0.45	0.45	Kg/Sq.M. 78.50	95.38 Kg.
For Trusses & Purlins		1	7.60	10.40	Kg/Sq.M. 40.00	3161.60 Kg.
For Sides		2	7.60	4.60	20.00	1398.40 Kg.
		2	10.40	4.60	20.00	1913.60 Kg.
						3256.98 Kg.

**Total Qty 3.26 M.T.**

- 13 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.

SSR 2021-22 Item No. 27.01

On Gr. Beam (1 + 0.2 - 0.45 = 0.750 M.)

*H. K. Bhamare*  
 H. K. Bhamare  
 Reg. No. 12/2018/06-3