

Estimate

Project For

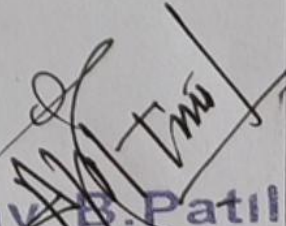
Krushu Udyog Farmer Producer Company Ltd. Gat No. 180 at post
Dabha Bk. Tal- Mangrulpir Dist- Washim

PLANS AND DETAILED ESTIMATE

NAME OF WORK:

Construction of Godown in Gat No. 180 at post Dabha Bk. Tal-
Mangrulpir Dist- Washim Krushi Udyog Farmer Producer Company
Ltd.

Estimated Cost : 5972120.00


Ajay B. Patil
Consulting Civil Engineer
Reg.No.-NSK/JD/57/PAB

Name Of Work :- Construction of Godown in Gat No. 180 at post Dabha Bk. Tal-
Mangrulpir Dist- Washim Krushi Udyog Farmer Producer Company Ltd.

RECAPITULATION SHEET

Cost of Work Portion	=	5017239.45
(A) Work Portion	Rs.	5017239.45
Add 18% GST fo Work Portion	Rs.	903103.10
Add 0.50 % Insurance Charge for Work Portion	Rs.	25086.20
(B) Royalty Charges & Testing Charges		
Add Royalty Charges	Rs.	17070.53
Add Testing Charges	Rs.	9975.00
	Total	Rs. 5972474.28
	Say	Rs. 5972120.00

ABSTRACT

Quantity	Item Of Work	Rate	Unit	Amount
56.38 Cubic Metre	Item No. 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 & 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 Page No./ Item No.21.02 Spec. No. : Bd.A.1 Page No. 259 Page No. BDA 1	207.00	One Cubic Metre	11670.66
41.47 Cubic Metre	Item No. 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 Means SSR Page No./ Item No.21.06 Spec. No. : Bd.A.2 Page No. 259 Page No. BDA 2	227.00	One Cubic Metre	9413.69
194.82 Cubic Metre	Item No. 3 :- Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete. SSR Page No./ Item No.21.38 Spec. No. : Bd.A.12 Page No. 264 Page No. BDA 12	1382.00	One Cubic Metre	269241.24
32.61 Cumt	Item No. 4 :- Providing and laying in situ cement concrete of 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum rtype mixer with SCADA with natural sand) SSR Page No./ Item No.11.04 Spec. No. : CD.3 Page.No. 160 Page No. CD 3B	6266.99	One Cumt	204366.54
20.74 Cubic Metre	Item No. 5 :- Providing and laying in situ cement concrete M20 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, formwork, cover blocks compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. etc. complete, with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant With Natural Sand SSR Page No./ Item No.25.11 Spec. No. : Bd.F.3 Page No. 298 and B.7, Page No.38 Page No. BDF 3	7648.11	One Cubic Metre	158621.80
16.56 Cubic Metre	Item No. 6 :- Providing and casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed 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 concrete batch mix plant (pan mixer).... With natural sand. SSR Page No./ Item No.25.31 Spec. No. : Bd.F.5 Page No. 300 and B.7, Page.No. 38 Page No. BDF 5	14327.11	One Cubic Metre	237256.94

Quantity	Item Of Work	Rate	Unit	Amount
43.46 Cubic Metre	<p>Item No. 7 :- Providing & casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs & drawings or as directed including centering, formwork, cover blocks compaction & roughening the surface if special finish is to be provided & curing etc. complete. (Excluding reinforcement)</p> <p>SSR Page No./ Item No.25.5 Spec. No. : Bd.F.6 Page No. 300 and B.7, Page.No. 38 Page No. BDF 6</p>	12813.11	One Cubic Metre	556857.76
51.76 Cubic Metre	<p>Item No. 8 :- 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</p> <p>SSR Page No./ Item No.27.01 Spec. No. : Bd.G. 1 Page No. 313 Page No. BDG 1</p>	8399.41	One Cubic Metre	434753.46
250.75 Cubic Metre	<p>Item No. 9 :- Filling in plinth and floors with contractors aterial/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete. Spec. No. : Bd.A. 11/Page No. 263</p> <p>SSR Page No./ Item No.21.37 Spec. No. : Bd.A.11 Page No. 263 Page No. BDA 11</p>	599.00	One Cubic Metre	150199.25
5.33 Metric Tonne	<p>Item No. 10 :- Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc.</p> <p>SSR Page No./ Item No.23.04 Spec. No. : Bd.C.8 Page No. 278 Page No. BDC 8</p>	119459.00	One Metric Tonne	636515.18
793.60 Square Metre	<p>Item No. 11 :- Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws & bolts, lead & bitumen washers as per drawing</p> <p>SSR Page No./ Item No.38.04 Spec. No. : Bd.R.5, Page No. 453 Page No. BDR 5</p>	870.00	One Square Metre	690432.00
250.75 Square Metre	<p>Item No. 12 :- 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), Histrength steel with min.550 MPa yield strength, metallic hot dip coated with AluminiumZinc 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</p> <p>SSR Item No. 38.34 Spec. No. : As directed by Engineer in charge Page No. BDR</p>	1173.00	One Square Metre	294129.75
8.06 Metric Tonne	<p>Item No. 13 :- Providing and fixing in position TMT FE 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, 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. a) For TMT Fe 415 steel bars (If Mild Steel/HYSD steel is to be used prior permission from S.E. should be taken)</p> <p>SSR Page No./ Item No.26.33 Spec. No. : Bd.F.17, Page No. 306 Page No. BDF 17</p>	89938.34	One Metric Tonne	724561.25

Name Of Work :- Construction of Godown in Gat No. 180 at post Dabha Bk. Tal- Mangrulpir Dist- Washim
 Krushi Udvoa Farmer Producer Company Ltd.

MEASUREMENT.

Item No. 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 & stacking and spreading as directed, dewatering, preparing the bed for the

32	x	1.20	x	1.20	x	1.20	=	55.30	Cubic Metre
1	x	1.20	x	1.50	x	0.60	=	1.08	Cubic Metre
								Total Qty. =	56.38 Cubic Metre

Item No. 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.

32	x	1.20	x	1.20	x	0.90	=	41.47	Cubic Metre
								Total Qty. =	41.47 Cubic Metre

Item No. 3 :-

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

Column Footing	32	x	1.20	x	1.20	x	0.60	=	27.65	Cubic Metre
Bed	1	x	22.95	x	12.14	x	0.60	=	167.17	Cubic Metre
								Total Qty. =	194.82 Cubic Metre	

Item No. 4 :-

Providing and laying in situ cement concrete of 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in

32	x	1.20	x	1.20	x	0.10	=	4.61	Cumt	
Step	1	x	1.20	x	1.20	x	0.10	=	0.14	Cumt
Bed	1	x	22.95	x	12.14	x	0.10	=	27.86	Cumt
								Total Qty. =	32.61 Cumt	

Item No. 5 :-

Providing and laying in situ cement concrete M20 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

32	x	1.20	x	1.20	x	0.25	=	11.52	Cubic Metre
32	x	1.20	x	1.20	x	0.20	=	9.22	Cubic Metre
								Total Qty. =	20.74 Cubic Metre

Item No. 6 :-

Providing and casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks

32	x	0.23	x	0.45	x	5.00	=	16.56	Cubic Metre
								Total Qty. =	16.56 Cubic Metre

Item No. 7 :-

Providing & casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs & drawings or as directed including centering, formwork,

GB1	4	x	1	x	5.33	x	0.23	x	0.30	=	1.47	Cubic Metre
GB1	8	x	1	x	5.33	x	0.23	x	0.30	=	2.94	Cubic Metre
GB2	13	x	1	x	5.33	x	0.23	x	0.30	=	4.78	Cubic Metre
LB1	4	x	1	x	3.30	x	0.23	x	0.30	=	0.91	Cubic Metre
LB1	8	x	1	x	3.30	x	0.23	x	0.23	=	1.40	Cubic Metre
LB2	34	x	1	x	3.30	x	0.23	x	0.23	=	5.85	Cubic Metre
TB1	12	x	1	x	5.33	x	0.23	x	0.30	=	4.41	Cubic Metre
TB1	24	x	1	x	5.33	x	0.23	x	0.30	=	8.83	Cubic Metre
TB2	35	x	1	x	5.33	x	0.23	x	0.30	=	12.87	Cubic Metre
								Total Qty. =	43.46 Cubic Metre			

Item No. 8 :-

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

For Plinth	1	x	25	x	3.00	x	0.23	x	1.50	=	25.88	Cubic Metre
	1	x	25	x	3.00	x	0.23	x	1.50	=	25.88	Cubic Metre
								Total Qty. =	51.76 Cubic Metre			

Item No. 9 :-

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. Soec. No. : Bd A. 11/Page No. 263

1	x	22.95	x	12.14	x	0.90	=	250.75	Cubic Metre
								Total Qty. =	250.75 Cubic Metre

Item No. 10 :-

Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of

Truss Member (100x100 x6mm)	10.00	x	10.00	x	5.53	=	553.00	
Purlin	5.00	x	5.00	x	5.53	=	138.25	
Cleat angle	3.00	x	0.15	x	3.61	=	1.62	
BASE PLATE (12mm tk-62.80/sqm)								
Nut Bolts (16 mm tk-2.46Kg/m)	5	x	0.15	x	0.15	=	7.07	
	8	x	12.00	x	0.45	=	106.27	
							Total =	806.21 Kg
							10% Curtailment Wt =	80.6207
							Net =	886.83 Metric Ton

Weight of Trusses	1.00	x	5.00	x	886.83	=	4434.14		
Waiting & Hall	5.00	x	8.50	x	5.10	=	216.75		
					10% Curtailment Wt	=	21.68		
					Net	=	4672.57		
							4672.57	1000.00	= 4.673
M.S. Angle	5	x	5	x	0.60	=	15.00		
M.S. Angle	6	x	8	x	0.75	=	36.00		
Vertical Support	4	x	2	x	0.30	=	2.40		
Vertical Support	4	x	9	x	0.45	=	16.20		
Vertical Support	5	x	6	x	0.45	=	13.50		
Vertical Support	2	x	5	x	0.60	=	6.00		
Horizontal Support	4	x	4	x	0.90	=	14.40		
Horizontal Support	5	x	3	x	0.20	=	3.00		
Horizontal M.S. Angle	2	x	5	x	0.10	=	1.00		
					Net	=	107.50	RMT	
					107.50	x	6.10	=	655.75
							655.75	1000.00	= 0.65575
								Net Qty	= 5.33 Metric Ton

Item No. 11 :-

Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws & bolts, lead & bitumen washers as per drawing etc. complete. (Weight of 5.5 kg/sq.m.).

1	x	2.00	x	22.95	x	10.00	=	459.00	Square Me
1	x	2.00	x	12.14	x	10.00	=	242.80	Square Me
						20%	=	91.80	Square Me
						Total Qty.	=	793.60	Square Me

Item No. 12 :-

Providing and fixing colour coated Zincolume (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). Histrrength

1	x	22.95	x	12.14	x	0.90	=	250.75	Square Me
						Net Quantity	=	250.75	Square Me

Item No. 13 :-

Providing and fixing in position TMT FE 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels

Item	Qty	Steel Per			
Footing	20.740	x	120.00	=	2488.80 Kg
Column	16.560	x	100.00	=	1656.00 Kg
Beam	43.460	x	90.00	=	3911.40 Kg
				=	6056.20 Kg
				Total Qty.	= 8.06 MT

Item No. 14 :-

Providing and fixing steel ventilator fully glazed party fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain / obscured glass pans and approved type quality and iron oxidized fixtures and fastening with guard square bars 12 mm 10 cm c/c and oil painting 2 coats

Ventilator	69	x	0.60	x	0.60	=	24.84	Square Me
						Total Qty.	= 24.84	Square Me

Item No. 15 :-

Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides. deep M.S. channel section of depth and thickness not less than 65 mm and 3.15

Shutter	4	x	4.00	x	4.75	=	76.00	Square Me
						Total Qty.	= 76.00	Square Me

Item No. 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

2	x	32	x	3.00	x	0.90	=	172.80	Square Me
						Total	=	172.80	Square Me

Item No. 17 :-

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

Qty as per Item No. 17						=	172.80	Square Me	
						Total	=	172.80	Square Me

Item No. 18 :-

Providing and Fixing 110 mm diameter PVC Rain Water pipe with necessary fittings such as bends, tees, single junctions, slotted vent, clamps etc

1	x	25.00	x	1.00	=	25.00	Running M	
						Total Qty.	= 25.00	Running M

Item No. 19 :-

Shooting of still photographs outdoor and indoor of construction and other works of building, bridges, roads etc. in District and outside dist. At any distances
i) a set of same three copies of 4' x 6' Size

1.00	x	5.00	=	5.00	set
				Total Qty.	= 5.00 set

Item No. 20 :-

Add Royalty as per Government of Maharashtra Revenue and Forest Departments Order For Sand

1:4:8	32.61	x	0.47	=	15.33	Cum
Footing	20.74	x	0.425	=	8.81	
Columns	16.56	x	0.425	=	7.04	
Beam	43.46	x	0.425	=	18.47	
BB Masonary	51.76	x	0.32	=	16.56	
Sand Face Plaster	172.80	x	0.033	=	5.70	
			Total Qty.	=	71.92	Cum

Item No. 21 :-


Testing Charges for quality control tests on various materials like metal crushed metal bitumen Hard murum Soft Murum , Sand, Cement , Steel etc as per frequency norms and rates for every material in Vigilece and Quality Control Laboratory as directed by Engineer in Charge

Compressive Strength of M-20 grade C.C. Cube	=	5.00	No
Carrying out water absorption , compressive strength & Efflorescence Test of Bricks	=	3.00	No

Name Of Work :- Construction of Godown in Gat No. 180 at post Dabha Bk. Tal- Mangrupir Dist- Washim Krushi Udvoq Farmer Producer Company Ltd.

LEAD STATEMENT

Sr No.	Material	Source of Material	Total lead in Km	Total Lead charges	Net Additional Lead Charges	Unit
1	2	3	4	5	7	8
1	Cement		10.00	235.34	235.34	MT
2	Steel		10.00	235.34	235.34	Cum
3	Sand		30.00	619.56	619.56	Cum
4	Bricks		10.00	757.93	757.93	Cum
5	Crushed metal		10.00	345.15	345.15	Cum
6	Rubble		10.00	422.26	422.26	Cum
7	HM/SM		10.00	330.77	330.77	Cum


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