

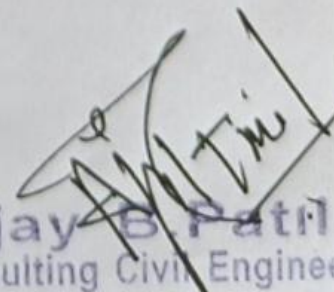
Estimate

PLANS AND DETAILED ESTIMATE

NAME OF WORK:

Construction of Processing Unit in Gat No. 180 at Dabha Bk Tal-
Mangrulpur Dist- Washim Krushi Udyog Farmer Producer Company
Ltd.

Estimated Cost : 6500000.00


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

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

RECAPITULATION SHEET

Cost of Work Portion	=	5352103.88
Electrical	=	128880.00
(A) Work Portion		<u>Rs. 5480983.88</u>
Add 18% GST fo Work Portion		Rs. 963378.70
Add 0.50 % Insurance Charge for Work Portion		Rs. 26760.52
(B) Royalty Charges & Testing Charges		
Add Royalty Charges		Rs. 25766.16
Add Testing Charges		Rs. 3555.00
	Total	<u>Rs. 6500444.26</u>
	Say	<u>Rs. 6500444.00</u>
	Say	<u>Rs. 6500000.00</u>

6500000.00

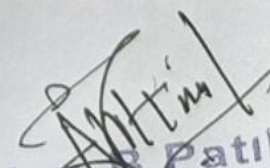
Name Of Work :- Construction of Processing Unit in Gat No. 180 at Dabha Bk Tal- Mangrulpur Dist- Washim Krushi Udyog Farmer Producer Company Ltd.

ABSTRACT

Quantity	Item Of Work	Rate	Unit	Amount
52.38 Cubic Metre	<p>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 SSR2022-23 Page No./ Item No.21.02 Spec. No. : Bd.A.1 Page No. 259 Page No. BDA 1</p>	207.00	One Cubic Metre	10842.66
12.96 Cubic Metre	<p>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 2022-23 Page No./ Item No.21.06 Spec. No. : Bd.A.2 Page No. 259 Page No. BDA 2</p>	227.00	One Cubic Metre	2941.92
101.88 Cubic Metre	<p>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 2022-23 Page No./ Item No.21.38 Spec. No. : Bd.A.12 Page No. 264 Page No. BDA 12</p>	1382.00	One Cubic Metre	140798.16
146.76 Cumt	<p>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 2022-23 Page No./ Item No.11.04 Spec. No. : CD.3 Page.No. 160 Page No. CD 3B</p>	6266.99	One Cumt	919743.45
29.03 Cubic Metre	<p>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 2022-23 Page No./ Item No.25.11 Spec. No. : Bd.F.3 Page No. 298 and B.7, Page No.38 Page No. BDF 3</p>	7648.11	One Cubic Metre	222024.63
21.74 Cubic Metre	<p>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 2022-23 Page No./ Item No.25.31 Spec. No. : Bd.F.5 Page No. 300 and B.7, Page.No. 38 Page No. BDF 5</p>	14327.11	One Cubic Metre	311471.37

Quantity	Item Of Work	Rate	Unit	Amount
8.30 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 2022-23 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	106348.81
10.29 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 2022-23 Page No./ Item No.27.01 Spec. No. : Bd.G. 1 Page No. 313 Page No. BDG 1</p>	8399.41	One Cubic Metre	86429.92
400.12 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 2022-23 Page No./ Item No.21.37 Spec. No. : Bd.A.11 Page No. 263 Page No. BDA 11</p>	599.00	One Cubic Metre	239671.88
11.53 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 2022-23 Page No./ Item No.23.04 Spec. No. : Bd.C.8 Page No. 278 Page No. BDC 8</p>	119459.00	One Metric Tonne	1377375.29
253.08 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 2022-23 Page No./ Item No.38.04 Spec. No. : Bd.R.5, Page No. 453 Page No. BDR 5</p>	870.00	One Square Metre	220179.60
444.58 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 2022-23 Item No. 38.34 Spec. No. : As directed by Engineer in charge Page No. BDR</p>	1095.00	One Square Metre	486815.10
6.60 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 2022-23 Page No./ Item No.26.33 Spec. No. : Bd.F.17, Page No. 306 Page No. BDF 17</p>	89938.34	One Metric Tonne	593195.51

Quantity	Item Of Work	Rate	Unit	Amount
24.48 Square Metre	Item No. 14 :- Providing and fixing steel ventilator fully glazed partly 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 etc. complete. SSR 2022-23 Page No./ Item No.39.3 Spec. No. : Bd. T. 53, Page No. 509 & As directed by Engineer in	4827.00	One Square Metre	118164.96
48.00 Square Metre	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 mm respectively with hold fast arrangements, M.S. Bracket plate 200 x 200 x 2.45 mm minimum size and channel with square bar SSR 2022-23 Page No./ Item No.39.24 Spec. No. : Bd.T.55, Page No. 510 Page No. BDT 55	4829.00	One Square Metre	231792.00
338.60 Square Metre	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 SSR 2022-23 Page No./ Item No.32.11 Spec. No. : Bd.L.7 Page No. 369 Page No. BDL 7	718.27	One Square Metre	243206.22
338.60 Square Metre	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 SSR 2022-23 Page No./ Item No.35.13 Spec. No. : Bd.0.8 Page No. 406 Page No. BDO 8	79.00	One Square Metre	26749.40
25.00 Running Metre	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 complete. SSR 2022-23 Page No./ Item No.42.87 Spec. No. : As directed by Engineer in	569.00	One Running Metre	14225.00
2.00	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 DSR 2016-17 Item No 1949	64.00	set	128.00
	A) Work Portion Total with all Charges		Rs	5352103.88
108.55 Cum	Item No. 20 :- Add Royalty as per Government of Maharashtra Revenue and Forest Departments Order For Sand 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	237.37	One Cum	25766.16
2.00	Compressive Strength of M-20 grade C.C. Cube	690.00	No	1380.00
1.00	Carrying out water absorption , compressive strength & Efflorescence Test of Bricks	2175.00	No	2175.00
			Total Cost-	29321.16


Ajay B. Patil
 Consulting Civil Engineer
 Reg.No.-NSK/JD/157/PAB

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

30	x	1.20	x	1.20	x	1.20	=	51.84	Cubic Metr
1	x	1.20	x	1.50	x	0.30	=	0.54	Cubic Metr
								Total Qty. =	52.38 Cubic Metr

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.

30	x	1.20	x	1.20	x	0.30	=	12.96	Cubic Metr
								Total Qty. =	12.96 Cubic Metr

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	30	x	1.20	x	1.20	x	0.30	=	12.96	Cubic Metre
Bed	1	x	30.08	x	14.78	x	0.20	=	88.92	Cubic Metre
								Total Qty. =	101.88 Cubic Metre	

Item No. 4 :-

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

Step	30	x	1.20	x	1.20	x	0.30	=	12.96	Cumt
Bed	1	x	1.20	x	1.20	x	0.30	=	0.43	Cumt
	1	x	30.08	x	14.78	x	0.30	=	133.37	Cumt
								Total Qty. =	146.76 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

30	x	1.50	x	1.50	x	0.23	=	15.53	Cubic Metre
30	x	1.50	x	1.50	x	0.20	=	13.50	Cubic Metre
								Total Qty. =	29.03 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

30	x	0.23	x	0.45	x	7.00	=	21.74	Cubic Metre
								Total Qty. =	21.74 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	15	x	1	x	3.00	x	0.23	x	0.30	=	3.11	Cubic Metre
GB1	10	x	1	x	4.93	x	0.23	x	0.30	=	3.40	Cubic Metre
LB1	13	x	1	x	2.00	x	0.23	x	0.30	=	1.79	Cubic Metre
								Total Qty. =	8.30 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	10	x	3.00	x	0.23	x	0.90	=	6.21	Cubic Metr
	1	x	4	x	4.93	x	0.23	x	0.90	=	4.08	Cubic Metr
								Total Qty. =	10.29 Cubic Metr			

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

1	x	30.08	x	14.78	x	0.90	=	400.12	Cubic Metre
								Total Qty. =	400.12 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 x8mm)	11.00	x	2.00	x	5.53	=	121.66				
Purlin	15.00	x	1.00	x	5.53	=	82.95				
Cleat angle	9.00	x	0.15	x	3.61	=	4.87				
BASE PLATE (12mm tk-62.80/sqm)											
Nut Bolts (16 mm tk2.46Kg/m)	25	x	0.15	x	0.15	=	0.56	x	62.80	=	35.33
	35	x	4.00	x	0.45	=	63.00	x	2.46	=	154.98
								Total	=	399.79	Kg
								10% Curtailment Wt	=	39.9785	
								Net	=	439.76	Metric Ton
Weight of Trusses	2.00	x	4.38	x	439.76	=	3848.81				
Waiting & Hall	2.90	x	6.01	x	5.10	=	88.89				
								10% Curtailment Wt	=	8.89	
								Net	=	3946.59	

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	=	2.00	No
Carrying out water absorption , compressive strength & Efflorescence Test of Bricks	=	1.00	No

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

ABSTRACT Electrical

Quantity	Item Of Work	Rate	Unit	Amount
300.00	<p>Item No. 1 :- Suplyinng and erecting PVC insulated PVC Round sheathed 4 square meter (56 No. x 0.30 meter Dia) 3 Core Flexible Multi Standard Copper Industrial Cable For Holtage Grade up to 1.1 Kv.</p>	145.00	Meter	43500.00
125.00	<p>SSR2022-23 Item No :- 1-3-16 Item No. 2 :- Suplyinng and erecting Flush Type Shock Proof Plug Socket 6 pin 6 A and 1:6 A with Switch 1:6 A Combin Unit Erected One Filed Poly Propylene Board For double wooden block / 3 mm thick high lamp sheet / 4 mm thick plywood pasted with 1.5 mm thick</p>	116.00	Inch	14500.00
25.00	<p>SSR2022-23 Item No :- 1-5-13 Item No. 3 :- Suplyinng and erecting Whit Foot Light with 4 Modolus concealed modolour Box at LED Light with cover Complete erected on wall flush to wall with necessary completed</p>	392.00	Number	9800.00
30.00	<p>SSR2022-23 Item No :- 1-6-42 Item No. 4 :- Suplyinng and erecting integral post top lautren fixtures (Light House type) suitable upto LED 16 W lamp consisting of combination of span aluminium canopy & clear acrylic top cover casdt aluminium pole cap on provided pole / bracket as per spefication no. FD-ODF-PTL</p>	2036.00	Each	61080.00
	SSR2022-23 Item No :- 2-5-5			
		Total	Rs	128880.00

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

MEASUREMENT. Electrical

Item No. 1 :-

Supplying and erecting PVC insulated PVC Round sheathed 4 square meter (56 No. x 0.30 meter Dia) 3 Core Flexible Multi Standard Copper Industrial Cable For Holtage Grade up to 1.1 Kv.

1.00 x 300.00 = 300.00 Meter
 Total Qty. = 300.00 Meter

Item No. 2 :-

Supplying and erecting Flush Type Shock Proof Plug Socket 6 pin 6 A and 1:6 A with Switch 1:6 A Combin Unit Erected One Filed Poly Propylene Board For double wooden block / 3 mm thick high lamp sheet / 4 mm thick plywood pasted with 1.5 mm thick

1.00 x 125.00 = 125.00 Inch
 Total Qty. = 125.00 Inch

Item No. 3 :-

Supplying and erecting Whit Foot Light with 4 Modulou concealed modulour Box at LED Light with cover Complete erected on wall flush to wall with necessary completed

1.00 x 25.00 = 25.00 Number
 Total Qty. = 25.00 Number

Item No. 4 :-

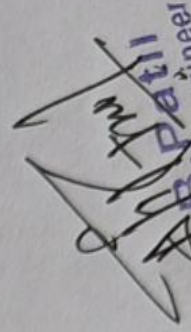
Providing and laying in situ cement concrete of 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in

1.00 x 30.00 = 30.00 Each
 Total Qty. = 30.00 Each

Name Of Work :- Construction of Processing Unit in Gat No. 180 at Dabha Bk Tal- Mangrulpur
 Dist- Washim Krushi Udyog 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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