

DETAILED ESTIMATE**NAME OF WORK**

*Construction of Aggregation, Cleaning Grading & Trading Plant
Shed in Gut. No. 36, for Kayadhu Farmers Producer Co. Ltd. At.
Arathi, Tq. Kalamnuri, Dist Hingoli.*

Owner By : _____

Cost of Estimate Rs. 50,00,000.00



e-SSR Year- 2022-2023

NAME OF WORK : Construction of Aggregation, Cleaning Grading & Trading Plant Shed in Gut. No. 36, for Kayadhu Farmers Producer Co. Ltd. At. Arathi, Tq. Kalamnuri, Dist Hingoli.

Owner By : _____

Recapitulation Sheet.

Sr. No.	Description	Rs.	Amount
1	Cost of Civil Works	Rs	4128427.00
2	Royalty Charges	Rs	79677.00
3	Testing Charges	Rs	7695.00
	Add 18 % for G.S.T. Charges On Total	Rs	743117.00
	Add 1.00 % Labour Insurance On Total	Rs	41284.00
		Total Rs.	5000200.00
		Say Rs	50,00,000.00



Bhalerao

ER.S.V.BHALERAO
Consulting Engg. & Supervision
Akola Bypass, Deshmukh Complex,
Ring Road, Hingoli. Mo.9657807903

NAME OF WORK : Construction of Aggregation, Cleaning Grading & Trading Plant Shed in Gut. No. 36, for Kayadhu Farmers Producer Co. Ltd. At. Arathi, Tq. Kalamnuri, Dist Hingoli.

Owner By : _____

ABSTRACT

Sr No	Description of Item	Quantity	Rate	Unit	Amount
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. PWD e-S.S.R.-2022-23, Sr. No.721, Item No. 21.02	24.32	207.00	Cum	5034.00
2	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and 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 . PWD e-S.S.R.-2022-23, Sr. No.725, Item No. 21.06.	20.74	227.00	Cum	4708.00
3	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) PWD e-S.S.R.-2022-23, Sr. No.827, Item No. 24.01.	52.18	6337.11	Cum	330670.00

Sr No	Description of Item	Quantity	Rate	Unit	Amount
4	<p>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 (Crushed sand VSI Grade etc) PWD e-S.S.R.-2022-23, Sr. No.836, Item No. 25.11.</p>	7.78	7608.94	Cum	59198.00
5	<p>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 (Crushed sand VSI Grade) PWD e-S.S.R.-2022-23, Sr. No.841, Item No. 25.31.</p>	23.36	14287.94	Cum	333766.00
6	<p>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 (Crushed sand VSI Grade). PWD e-S.S.R.-2022-23, Sr. No.846, Item No. 25.50.</p>	19.13	12773.94	Cum	244365.00

Sr No	Description of Item	Quantity	Rate	Unit	Amount
7	<p>Providing and laying Cast in situ/Ready Mix concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) PWD e-S.S.R.-2022-23, Sr. No.856. Item No. 26.05.</p>	2.95	14436.94	Cum	42589.00
8	<p>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.</p> <p>PWD e-S.S.R.-2022-23, Sr. No.816, Item No. 23.01.</p>	1.703	102079.34	MT	173841.00
9	<p>Providing and fixing colour coated Zincalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. 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-capillary groove. and 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. PWD e-S.S.R.-2022-23, Sr. No.1174, Item No. 38.34. PWD e-S.S.R.-2021-22, Sr. No.1172, Item No. 38.34.</p>	494.00	1173.00	Sqm	579462.00

Sr No	Description of Item	Quantity	Rate	Unit	Amount
10	<p>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.</p>	4.345	89938.34	MT	390782.00
	<p>PWD e-S.S.R.-2022-23, Sr. No.871, Item No. 26.33.</p>				
11	<p>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>	17.43	8816.53	Cum	153672.00
	<p>PWD e-S.S.R.-2022-23, Sr. No.889, Item No. 27.01.</p>				
12	<p>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.</p>	154.91	851.22	Cum	131862.00
	<p>PWD e-S.S.R.-2022-23, Sr. No.751, Item No. 21.37.</p>				
13	<p>Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.</p>	76.47	1479.97	Cum	113173.00
	<p>PWD e-S.S.R.-2022-23, Sr. No.754, Item No. 21.40.</p>				
14	<p>Providing and laying Rough Shahabad Stone Flooring 25mm to 30mm thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. complete.</p>	475.27	736.40	Sqm	349989.00
	<p>PWD e-S.S.R.-2022-23, Sr. No.988, Item No. 33.01.</p>				
15	<p>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.</p>	49.97	9055.53	Cum	452505.00
	<p>PWD e-S.S.R.-2022-23, Sr. No.892, Item No. 27.05.</p>				

Sr No	Description of Item	Quantity	Rate	Unit	Amount
16	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. PWD e-S.S.R.-2022-23, Sr. No.958, Item No. 32.04.	256.05	281.89	Sqm	72178.00
17	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. PWD e-S.S.R.-2022-23, Sr. No.963, Item No. 32.11.	407.03	647.66	Sqm	263617.00
18	Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete. PWD e-S.S.R.-2022-23, Sr. No.1291, Item No. 40.01.	15.75	2097.00	Sqm	33028.00
19	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices 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. 62481979) (Without mechanical gear). PWD e-S.S.R.-2022-23, Sr. No.1217, Item No. 39.24.	68.58	4829.00	Sqm	331173.00
20	Providing and applying plastic emulsion paint of approved quality, colour and shade to old and new surfaces in two coats including scaffolding, preparing the surface. (excluding the primer coat)etc. complete. PWD e-S.S.R.-2022-23, Sr. No.1107, Item No. 36.12.	256.05	80.00	Sqm	20484.00

Sr No	Description of Item	Quantity	Rate	Unit	Amount
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21	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. PWD e-S.S.R.-2022-23, Sr. No.1085, Item No. 35.15.	407.03	104.00	Sqm	42331.00
Cost of Civil Work's Rs. : A =				Rs.	4128427.00
22	For All Other Minerals = Royalty Charges	267.91	212.01	Cum	56799.00
23	For Sand = Royalty Charges	107.91	212.01	Cum	22878.00
Royalty Charges. Rs. : B =				Rs.	79677.00
24	Testing Charges				
a	Compressive Strength of C. C. Cube of 3 cube M-10	3.00	690.00	No	2070.00
b	Compressive Strength of C. C. Cube of 3 cube M-20	5.00	690.00	No	3450.00
c	Bricks : Water Absorption (Set of 5 Bricks), Compressive Strength (Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	1.00	2175.00	No	2175.00
Testing Charges. Rs. : C =				Rs.	7695.00
Total Cost of : A + B + C =				Rs.	4136122.00




E.R.S.V. BHALERAO
 Consulting Engg. & Supervision
 Akola Bypass, Deshmukh Complex,
 Ring Road, Hingoli. Mo.9657807903

NAME OF WORK : Construction of Aggregation, Cleaning Grading & Trading Plant Shed in Gut. No. 36, for Kayadhu Farmers Producer Co. Ltd. At. Arathi, Tq. Kalamnuri, Dist Hingoli.

Owner By : _____

MEASUREMENTS

Sr No	Description of Item	No	Length	Breadth	Depth	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 PWD e-S.S.R.-2022-23, Sr. No.721, Item No. 21.02						
	For Columns	24	1.20	1.20	0.60	20.74	
	Otta for Steps	6	3.63	0.30	0.30	1.96	
		2 6	1.50	0.30	0.30	1.62	
						24.32	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 PWD e-S.S.R.-2022-23, Sr. No.725, Item No. 21.06.						
	For Columns	24	1.20	1.20	0.60	20.74	
						20.74	Cum
3	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 PWD e-S.S.R.-2022-23, Sr. No.827, Item No. 24.01.						
	For Columns	24	1.20	1.20	0.10	3.46	
	Otta for Steps	6	3.63	0.30	0.10	0.65	
		2 6	1.50	0.30	0.10	0.54	
	Below Flooring	1	37.54	11.79	0.10	44.26	
		6	3.63	1.50	0.10	3.27	
						52.18	Cum

Sr No	Description of Item	No	Length	Breadth	Depth	Quantity	Unit
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4 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 (Crushed sand VSI Grade etc)**

PWD e-S.S.R.-2022-23, Sr. No.836, Item No. 25.11.

24 0.90 0.90 0.40 7.78 Cum

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 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 (Crushed sand VSI Grade)**

PWD e-S.S.R.-2022-23, Sr. No.841, Item No. 25.31.

16 0.60 0.30 5.15 14.83

12 0.60 0.23 5.15 8.53

23.36 Cum

Sr No	Description of Item	No	Length	Breadth	Depth	Quantity	Unit
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- 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 (Crushed sand VSI Grade).**

PWD e-S.S.R.-2022-23, Sr. No.846, Item No. 25.50.

for Plinth Beam	18	3.90	0.23	0.38	6.14
	4	3.48	0.23	0.38	1.22
	2	3.63	0.23	0.38	0.63
for lintel level Beam	18	3.90	0.23	0.15	2.42
	4	3.48	0.23	0.15	0.48
	2	3.63	0.23	0.15	0.25
Floor Beam	18	3.90	0.23	0.38	6.14
	4	3.48	0.23	0.38	1.22
	2	3.63	0.23	0.38	0.63

19.13 Cum

- 7 Providing and laying Cast in situ/Ready Mix **cement concrete M-20** of trap/ granite/ quartzite/ gneiss metal for **R.C.C. chajja** as per detailed design and drawings including steel centering, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. **With fine aggregate (Crushed sand VSI Grade)**

PWD e-S.S.R.-2022-23, Sr. No.856. Item No. 26.05.

for Ventil.	14	1.80	0.60	0.10	1.51
for Shutter	6	4.00	0.60	0.10	1.44

2.95 Cum

Sr No	Description of Item	No	Length	Breadth	Depth	Quantity	Unit
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8 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.

PWD e-S.S.R.-2022-23, Sr. No.816, Item No. 23.01.

	L	Weight	
40x40x4 Straight Angle 2.40 Kg. /Rgm	1	13.00	2.40
40x40x4 CrossAngle 2.40 Kg. /Rgm	1	13.00	2.40
50x50x5 Cross Angle 3.80 Kg. /Rgm	1	13.00	3.80
50x50x5 Bottom Angle 3.80 Kg. /Rgm	1	13.00	3.80
Per No Truss			161.20 kg
	10		161.20
Purlins			
40x40x4 Angle 2.40 Kg. /Rgm	1	38.00	2.40
			91.20 Kg
			1703.20 Kg
			1.703 MT]

9 Providing and fixing **colour coated Zincalume (R) AZ150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing.** The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. 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-capillary groove. and 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.

PWD e-S.S.R.-2022-23, Sr. No.1174, Item No. 38.34.

1	38.00	13.00	494.00 Sqm
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Sr No	Description of Item	No	Length	Breadth	Depth	Quantity	Unit
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- 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, 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.

PWD e-S.S.R.-2022-23, Sr. No.871, Item No. 26.33.

For Foundation & Footing	7.78	80.00	Kg/cum	622.40
For Column	23.36	85.00	Kg/cum	1985.60
For Beam & Lintel	19.13	80.00	Kg/cum	1530.40
for Chajja	2.95	70.00	Kg/cum	206.50
				4344.90 Kg
				4.345 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

PWD e-S.S.R.-2022-23, Sr. No.889, Item No. 27.01.

	18	3.90	0.23	0.22	3.55
	4	3.48	0.23	0.22	0.70
	2	3.63	0.23	0.22	0.37
for Otta	6	3.63	0.23	1.40	7.01
	2	6	1.50	0.23	5.80
					17.43 Cum

- 12 **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.

PWD e-S.S.R.-2022-23, Sr. No.751, Item No. 21.37.

For Plinth	1	37.54	11.79	0.35	154.91 Cum
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- 13 Providing **soling using 80 mm size trap metal in 15 cm.** layer including filling voids with Crushed sand/grit, ramming, watering etc.

PWD e-S.S.R.-2022-23, Sr. No.754, Item No. 21.40.

For Columns	24	1.20	1.20	0.15	5.18
Below Flooring	1	37.54	11.79	0.15	66.39
	6	3.63	1.50	0.15	4.90
					76.47 Cum

Sr No	Description of Item	No	Length	Breadth	Depth	Quantity	Unit
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17 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.

PWD e-S.S.R.-2022-23, Sr. No.963, Item No. 32.11.

2	38.00			4.05	307.80	
2	12.25			4.05	99.23	
					407.03	Sqm

18 Providing and fixing **mild steel grill work for windows, ventilators etc. 20 kg/sqm** as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.

PWD e-S.S.R.-2022-23, Sr. No.1291, Item No. 40.01.

V	14	1.50		0.75	15.75	Sqm
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19 Providing and fixing **rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate** of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices 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. 62481979) (Without mechanical gear).

PWD e-S.S.R.-2022-23, Sr. No.1217, Item No. 39.24.

4	3.90			3.00	46.80	
2	3.63			3.00	21.78	
					68.58	Sqm

Sr No	Description of Item	No	Length	Breadth	Depth	Quantity	Unit
20	Providing and applying plastic emulsion paint of approved quality, colour and shade to old and new surfaces in two coats including scaffolding, preparing the surface. (excluding the primer coat)etc. complete. PWD e-S.S.R.-2022-23, Sr. No.1107, Item No. 36.12. As Per Internal Plaster					256.05	Sqm
21	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. PWD e-S.S.R.-2022-23, Sr. No.1085, Item No. 35.15. As Per External Plaster					407.03	Sqm
22	For All other Mineral = Royalty Qty.					267.91	Cum
23	For Sand = Royalty Qty.					107.91	Cum
24	Testing Charges						
a	Compressive Strength of C. C. Cube of 3 cube M-10	3				3.00	Nos
b	Compressive Strength of C. C. Cube of 3 cube M-20	5				5.00	Nos
c	Bricks : Water Absorption (Set of 5 Bricks), Compressive Strength (Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	1				1.00	Nos

NAME OF WORK : Construction of Aggregation, Cleaning Grading & Trading Plant Shed in Gut. No. 36, for Kayadhu Farmers Producer Co. Ltd. At. Arathi, Tq. Kalamnuri, Dist Hingoli.

Owner By : _____

ROYALTY STATEMENT

Sr No	Item	Quantity in this Estimate	Metal		Murum		Sand	
			Factor	Quantity	Factor	Quantity	Factor	Quantity
3	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 PWD e-S.S.R.-2022-23, Sr. No.827, Item No. 24.01.	52.18	0.700	36.53	0.000	0.00	0.470	24.52
4	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 PWD e-S.S.R.-2022-23, Sr. No.836, Item No. 25.11.	7.78	0.000	0.00	0.000	0.00	0.425	3.31
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 drawing or as directed including steel centering, formwork, cover blocks, PWD e-S.S.R.-2022-23, Sr. No.841, Item No. 25.31.	23.36	0.000	0.00	0.000	0.00	0.425	9.93
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, PWD e-S.S.R.-2022-23, Sr. No.846, Item No. 25.50.	19.13	0.000	0.00	0.000	0.00	0.425	8.13

Sr No	Item	Quantity in this Estimate	Metal		Murum		Sand	
			Factor	Quantity	Factor	Quantity	Factor	Quantity
7	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, PWD e-S.S.R.-2022-23, Sr. No.856, Item No. 26.05.	2.95	0.000	0.00	0.000	0.00	0.425	1.25
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 PWD e-S.S.R.-2022-23, Sr. No.889, Item No. 27.01.	17.43	0.000	0.00	0.000	0.00	0.320	5.58
12	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. PWD e-S.S.R.-2022-23, Sr. No.751, Item No. 21.37.	154.91	0.000	0.00	1.000	154.91	0.000	0.00
13	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete. PWD e-S.S.R.-2022-23, Sr. No.754, Item No. 21.40.	76.47	1.000	76.47	0.000	0.00	0.150	11.47
14	Providing and laying Rough Shahabad Stone Flooring 25mm to 30mm thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. complete. PWD e-S.S.R.-2022-23, Sr. No.988, Item No. 33.01.	475.27	0.000	0.00	0.000	0.00	0.022	10.46
15	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. PWD e-S.S.R.-2022-23, Sr. No.892, Item No. 27.05.	49.97	0.000	0.00	0.000	0.00	0.320	15.99

Sr No	Item	Quantity in this Estimate		Metal		Mirrum		Sand	
		Factor	Quantity	Factor	Quantity	Factor	Quantity	Factor	Quantity
16	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. PWD e-S.S.R.-2022-23, Sr. No.958, Item No. 32.04.	0.000	256.05	0.000	0.00	0.000	0.00	0.015	3.84
17	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. PWD e-S.S.R.-2022-23, Sr. No.963, Item No. 32.11.	0.000	407.03	0.000	0.00	0.000	0.00	0.033	13.43
			Total Qty.		113.00		154.91		107.91
			For All other Mineral = Royalty Qty.						267.91
			For Sand = Royalty Qty.						107.91
									107.91
									57916.00
									25615.00

For All Other Minerals = Royalty Charges

For Sand = Royalty Charges

Total Royalty Rs. 83531.00



ER.S.V.BHALERAO

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Consulting Engg. & Supervision
Akola Bypass, Deshmukh Complex,
Ring Road, Hingoli. Mo.9657807903

**NAME OF WORK : Construction of Aggregation, Cleaning Grading & Trading Plant Shed
in Gut. No. 36, for Kayadhu Farmers Producer Co. Ltd. At. Arathi, Tq. Kalamnuri, Dist
Hingoli.**

Owner By : _____

RATE ANALYSIS

Sr. No	Description of Item	Material Consumetio	x	Lead charges	Propose Rate	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 PWD e-S.S.R.-2022-23, Sr. No.721, Item No. 21.02				207.00	
						207.00 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 Means . PWD e-S.S.R.-2022-23, Sr. No.725, Item No. 21.06.				227.00	
						227.00 Cum
3	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 PWD e-S.S.R.-2022-23, Sr. No.827, Item No. 24.01.				5830.00	
	Add Lead for Metal 40 mm	0.7000	x	393.44	275.41	
	Add Lead for Metal 20mm	0.2400	x	410.55	98.53	
	Add Lead for Sand	0.4700	x	410.55	192.96	
	Add Lead for Cement	0.2200	x	235.34	51.77	
	Deduct Royalty for Sand	0.4700	x	237.37	-111.56	
						6337.11 Cum

Sr. No	Description of Item	Material Consumetio	x Lead charges	Propose Rate	Unit
4	<p>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 (Crushed sand VSI Grade etc)</p>				
	PWD e-S.S.R.-2022-23, Sr. No.836, Item No. 25.11.			7104.00	
	Add Lead for Metal	0.8500 x 410.55		348.97	
	Add Lead for Sand	0.4250 x 410.55		174.48	
	Add Lead for Cement	0.3500 x 235.34		82.37	
	Deduct for Royalty of Sand	0.4250 x 237.37		-100.88	
				7608.94	Cum
5	<p>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 (Crushed sand VSI Grade)</p>				
	PWD e-S.S.R.-2022-23, Sr. No.841, Item No. 25.31.			13783.00	
	Add Lead for Metal	0.8500 x 410.55		348.97	
	Add Lead for Sand	0.4250 x 410.55		174.48	
	Add Lead for Cement	0.3500 x 235.34		82.37	
	Deduct for Royalty of Sand	0.4250 x 237.37		-100.88	
				14287.94	Cum

Sr. No	Description of Item	Material Consumetio	x	Lead charges	Propose Rate	Unit
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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 (Crushed sand VSI Grade). PWD e-S.S.R.-2022-23, Sr. No.846, Item No. 25.50.				12269.00	
	Add Lead for Metal	0.8500	x	410.55	348.97	
	Add Lead for Sand	0.4250	x	410.55	174.48	
	Add Lead for Cement	0.3500	x	235.34	82.37	
	Deduct for Royalty of Sand	0.4250	x	237.37	-100.88	
					12773.94	Cum

7	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) PWD e-S.S.R.-2022-23, Sr. No.856. Item No. 26.05.				13932.00	
	Add Lead for Metal	0.8500	x	410.55	348.97	
	Add Lead for Sand	0.4250	x	410.55	174.48	
	Add Lead for Cement	0.3500	x	235.34	82.37	
	Deduct for Royalty of Sand	0.4250	x	237.37	-100.88	
					14436.94	Cum

Sr. No	Description of Item	Material Consumetio	x	Lead charges	Propose Rate	Unit
8	<p>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.</p>	1.0000	x	235.34	101844.00	
	<p>PWD e-S.S.R.-2022-23, Sr. No.816, Item No. 23.01.</p>				235.34	
	<p>Add Lead for Steel</p>				102079.34	MT
9	<p>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 super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um reverse coat on back surface. 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-capillary groove. and return leg. The feed material should have coil</p>				1173.00	
	<p>PWD e-S.S.R.-2022-23, Sr. No.1174, Item No. 38.34.</p>				1173.00	Sqm
10	<p>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</p>	1.0000	x	235.34	89703.00	
	<p>PWD e-S.S.R.-2022-23, Sr. No.871, Item No. 26.33.</p>				235.34	
	<p>Add Lead for Steel</p>				89938.34	MT

Sr. No	Description of Item	Material Consumetio	x	Lead charges	Propose Rate	Unit
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. PWD e-S.S.R.-2022-23, Sr. No.889, Item No. 27.01.				7755.00	
	Add Lead for Sand	0.32000	x	410.55	131.38	
	Add Lead for Cement	0.07900	x	235.34	18.59	
	Add Lead for Brick	0.47500	x	2078.99	987.52	
	Deduct Royalty for Sand	0.32000	x	237.37	-75.96	
					8816.53	Cum
12	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. PWD e-S.S.R.-2022-23, Sr. No.751, Item No. 21.37.				599.00	
	Add lead for Murum	1.0000	x	252.22	252.22	
					851.22	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. PWD e-S.S.R.-2022-23, Sr. No.754, Item No. 21.40.				1454.00	
	Add lead for Soling	1.0000	x	393.44		
	Add lead for Sand	0.1500	x	410.55	61.58	
	Deduct Royalty for Sand	0.1500	x	237.37	-35.61	
					1479.97	Cum
14	Providing and laying Rough Shahabad Stone Flooring 25mm to 30mm thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. complete. PWD e-S.S.R.-2022-23, Sr. No.988, Item No. 33.01.				731.00	
	Add lead Charges for Sand	0.02200	x	410.55	9.03	
	Add Lead for Cement	0.00675	x	235.34	1.59	
	Deduct Royalty for Sand	0.02200	x	237.37	-5.22	
					736.40	Sqm

Sr. No	Description of Item	Material Consumetio	x	Lead charges	Propose Rate	Unit
15	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.					
	PWD e-S.S.R.-2022-23, Sr. No.892, Item No. 27.05.				7994.00	
	Add Lead for Sand	0.32000	x	410.55	131.38	
	Add Lead for Cement	0.07900	x	235.34	18.59	
	Add Lead for Brick	0.47500	x	2078.99	987.52	
	Deduct Royalty for Sand	0.32000	x	237.37	-75.96	
					9055.53	Cum
16	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.					
	PWD e-S.S.R.-2022-23, Sr. No.958, Item No. 32.04.				278.00	
	Add Lead for Sand	0.01500	x	410.55	6.16	
	Add Lead for Cement	0.00550	x	235.34	1.29	
	Deduct Royalty for Sand	0.01500	x	237.37	-3.56	
					281.89	Sqm
17	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.					
	PWD e-S.S.R.-2022-23, Sr. No.963, Item No. 32.11.				639.00	
	Add Lead for Sand	0.03300	x	410.55	13.55	
	Add Lead for Cement	0.01250	x	235.34	2.94	
	Deduct Royalty for Sand	0.03300	x	237.37	-7.83	
					647.66	Sqm
18	Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.					
	PWD e-S.S.R.-2022-23, Sr. No.1291, Item No. 40.01.				2097.00	
					2097.00	Sqm

Sr. No	Description of Item	Material Consumetio	x	Lead charges	Propose Rate	Unit
19	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement PWD e-S.S.R.-2022-23, Sr. No.1217, Item No. 39.24.				4829.00	4829.00 Sqm
20	Providing and applying plastic emulsion paint of approved quality, colour and shade to old and new surfaces in two coats including scaffolding, preparing the surface. (excluding the primer coat)etc. complete. PWD e-S.S.R.-2022-23, Sr. No.1107, Item No. 36.12.				80.00	80.00 Sqm
21	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. PWD e-S.S.R.-2022-23, Sr. No.1085, Item No. 35.15.				104.00	104.00 Sqm
22	For All Other Minerals = Royalty Charges				212.01	Cum
23	For Sand = Royalty Charges				212.01	Cum
24	Testing Charges					
a	Compressive Strength of C. C. Cube of 3 cube M-10				690.00	Nos
b	Compressive Strength of C. C. Cube of 3 cube M-20				690.00	Nos
c	Bricks : Water Absorption (Set of 5 Bricks), Compressive Strength (Set of 5 Bricks), Efflorescence (Set of 5 Bricks)				2175.00	Nos




ER.S.V.BHALERAO
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NAME OF WORK : Construction of Aggregation, Cleaning Grading & Trading Plant Shed in Gut. No. 36, for Kayadhu Farmers Producer Co. Ltd. At. Arathi, Tq. Kalamnuri, Dist Hingoli.

Owner By : _____

LEAD CHART

	Material	Location of Quarry	Lead In Km.	Lead Charges	Initial Lead Charges	Net Lead Charges.
	Metal 40mm & Above	Babli Stone Quarry	15.00	393.44		393.44
	Metal 40mm & Below	Babli Stone Quarry	15.00	410.55		410.55
	Murum	Local	5.00	252.22		252.22
	Sand	Sapali Purna River	15.00	410.55		410.55
	Cement & Steel	Balapur Akhanda	10.00	235.34		235.34
	Brick	Nanaded Wajegaon	50.00	2078.99		2078.99



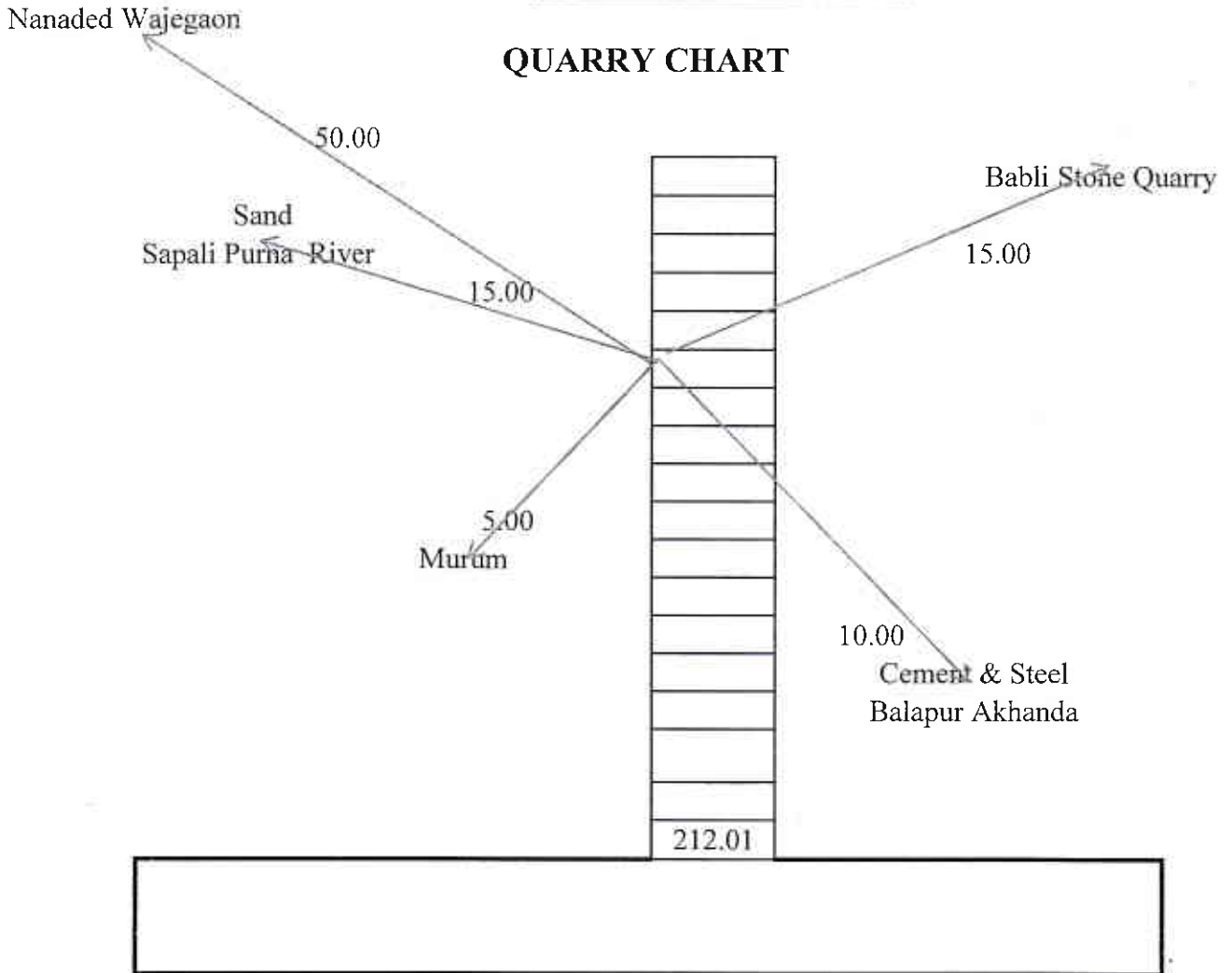
ER.S.V.BHALERAO

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Consulting Engg. & Supervision
Akola Bypass, Deshmukh Complex,
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**NAME OF WORK : Construction of Aggregation, Cleaning Grading & Trading Plant
Shed in Gut. No. 36, for Kayadhu Farmers Producer Co. Ltd. At. Arathi, Tq. Kalamnuri,
Dist Hingoli.**

Owner By : _____


QUARRY CHART



CERTIFICATE

1. Certificated that the quarries shown on the quarry charts for stone, Hard murum. Soft murum, Sand etc. are inspected by me and they are nearest and economical to this work and contain surrciant and good quality of the material required for this work.
2. Certified that lead for quarries shown and accounted in the estimate is as per nearest route.
3. Certified that the leads considered are found to be correct.




ER.S.V.BHALERAO
 Consulting Engg. & Supervisor
 Akola Bypass, Deshmukh Complex,
 Ring Road, Hingoli. Mo.9657807903