

**BILL OF QUANTITY CIVIL WORK**

Name of Proposed Project: M/S. Bhoose Agro Producer co.Ltd. , Bhoose

NAME OF WORK :- Civil Work & PEB Structure For Production Hall

Sr.No	Description of Item	Quantity	Rate	Unit	Amount
A	<b>CIVIL WORK</b>				
1	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a 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 from 1.5m to 3.0m) By Mechanical Means (SSR 2021-22 Item No .21.04 )	42.66	284	Cu.m	12115.44
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 Manual Means (SSR 2021-22 Item No .21.05 )	42.66	417	Cu.m	17789.22
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)(SSR 2021-22 Item No .24.01 )	7.11	6534	Cu.m	46456.74
4	Providing and laying in situ /Ready Mix cement concrete M-25 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)(SSR 2021-22 Item No .25.11 )	11.50	7865	Cu.m	90447.50
5	Providing & casting in situ cement concrete M-20 of trap/ granite/ quartzite/gneiss metal for RCC columns as per detailed drawings & designor as directed including centring, formwork, compaction, & roughening if special finish is to be provided & curing (Excluding reinforcement ) complete (SSR 2021-22 Item No .25.11 )	13.87	7865	Cu.m	109087.55

*(Handwritten Signature)*

**Abhay V. Deshmukh**  
(B.E. Civil AMIEFIV)  
Chartered Engineer and valuer  
Vaduj, Tal.- Khatav (SATARA)



6	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. Plinth Beam 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) (SSR 2021-22 Item No .25.31)	14.60	15324	Cu.m	223730.40
7	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 )	72.50	8664	Cu.m	628140.00
8	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 )	612.00	649	Cu.m	397188.00
9	Providing and fixing in position TMT-FE-500 reinforcement of various diameters for R.C.C. pile caps, footings, foundations , slabs,beams columns, canopies, staircase, newels, chajjas, lintels pardis,coping 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 completed. (SSR 2021-22 Item No.26.33 )	5.00	84627	M.T.	423135.00
10	Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.(SSR 2021-22 Item No .33.30 )	510.00	880	Sq.Mt.	448800.00
11	Providing and fixing green marble of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing / moulding the sharp edges wherever necessary, curing, etc. complete. (SSR 2021-22 Item No .33.48 )	10.32	2769	Sq.Mt.	28576.08
12	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete. (SSR 2021-22 Item No .32.07 )	175.00	495	Sq.Mt.	86625.00
13	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 1Kilogramper 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.. (SSR 2021-22 Item No .32.11 )	318.00	706	Sq.Mt.	224508.00
14	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete. (SSR 2021-22 Item No .40.01 )	14.0	2177	Sq.Mt.	30478.00

15	<p>Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 Kilogram/Running metre. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 Kilogram/Running metre.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising without box (SSR 2021-22 Item N39.42 )</p>	14.0	5627	Sq.Mt.	78778.00
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16	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) (With mechanical gear)(SSR 2021-22 Item No .39.25 )	70.0	5581	SQM	390670.00
17	Providing and applying interior wall finish luster of approved make on internal wall surface as detailed below Scrapping the surface with emery paper and wipe clean wall primer with brush with mineral turpentine with brush 8 to 10% and oil 15 to 20% with roller and allowing to dry for a period 6 to 8 hours.wall putty with appropriate proportion of water allowing to dry for period 4 to 6 hours. Scrapping with Emery paper 180 and wipe clean. Applying wall primer with brush with mineral turpentine 8 to 10% and oil 15 to 20% with roller Scrapping Emery paper 320 and wipe clean, interior wall finish luster 1st coat with brush/rubber/spray with mineral turpentine 7 to 9% and Oil with roller 19 to 21% After 8 hours of activity Applying 2nd coat or wall finish Lustre with mineral turpentine 7 to 9 % with brush and Oil with roller 19 to 21% after allowing dry for the period of 6 to 8 hours activity. (With prior approval of S.E.) (SSR 2021-22 Item No .36.20 )	175.00	265	Sq.Mt.	46375.00
18	Providing and applying two coats of exterior acryylic emulsion paint conforming to corresponding I.S. of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface, applying primer coat ,scaffolding if necessary , and watering the surface for two days etc complete (SSR 2021-22 Item No .35.25 )	318.00	283	Sq.Mt.	89994.00
<b>B</b>	<b>Royalty</b>				
1	Murrum /Rubble	612	216	M3.	132192.00
2	Sand ( Natural /River)	40	237	M3.	9480.00
<b>C</b>	<b>LAB TEST ITOMS</b>				
1	CEMENT :-Fineness, Consistency, Setting Time, Compressive strength, Specific gravity.	1	2500	NOS.	2500.00
2	M20 CONCRETE :-i)Mix Design with all tests on basic materials	1	3200	NOS.	3200.00
3	Concrete cube compressive strength	2	400	NOS.	800.00
4	BRICKS :-Water Absorption (Set of 5 Bricks), Compressive strength (Set of 5 Bricks), Efflorescence (Set of 5 Bricks)	1	500	NOS.	500.00
5	TMT STEEL :-Yield stress, ultimate tensile stress, elongation, weight per running meter.	2	1100	NOS.	2200.00
<b>D</b>	<b>Management of Strategies and Implementation Plan (MSIP) To Manage The Environmental ,Social ,Heath &amp; Safety (ESHS) Risk &amp; ESHS Code Of Conduct</b>	1	50000	LUMSUM	50000.00
<b>E</b>	<b>Structural Fabrication</b>				
1	Supplying, fabricating, erecting and fixing in position of PEB steel structures at all elevations using fusion welding quality steel E-350 (Fe490) conforming to IS:2062 - 2006. Rate shall include cost of cutting, welding, splice plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in position welded/bolted Structural steelwork in columns, beams, trusses, purlins, platforms, ladders, monorails, staircases ,supports, strengthening of steel members etc. at site to line and level, supply of approved bolts/nuts/washers etc. complete as per drawings including painting as per G4/G5/G6 before erection and all materials and labour charges etc., complete and including Sand blasting & painted with 1 coats of enamel paint (Berger EPILUX SG – HHI 664002) of 35-50 micron each coat with air less spray gun over a coat of zinc chromate primer - 35-50 micron etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge / Construction Manager. (The rate quoted shall include cost of bolts, nuts, washers, welding and electrodes required	11.7	118677	MT	1388520.90
2	Structural Steel - Cold Formed Light gauged ( Essar Make)Supplying, fabricating and erecting of Cold Formed Light Gauge structural steel members conforming to IS:801/ IS:811 hot- dip galvanised to IS:4759 - 96 including cutting, welding or bolting, splice plates and packing plates,transporting, straightening, cleaning, fabricating and erecting in position.	5.2	114460	MT	595192.00

3	Supply & Fixing of PPGI Roof & Wall sheets of 0.5 mm thick as shown in drawing or as directed by engineer incharge with all necessary accessories.(Essar) Make)	4.77	138060	MT	658546.20
4	Supply & Fixing of 0.5 mm thk PPGI Roof accessories as per drawing or as directed by engineer incharge-CORNER , BOTTOM, CANOPY , APRON , FLASHING,CENTRE RIDGE , GABLE FLASHING , GUTTER , DOWWN TAKE PIPE .	320	531	MT	169920.00
				TOTAL	6385945.03

*Abhay V. Deshmukh*

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 (B.E. Civil / MIE / FIV)  
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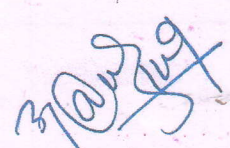
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**BILL OF QUANTITY CIVIL WORK**

Name of Proposed Project: M/S. Bhose Agro Producer co.Ltd. , Bhose

NAME OF WORK :- Civil Work & PEB Structure for Cold Storage & Pack House

Sr.No	Description of Item	Quantity	Rate	Unit	Amount
A	<b>CIVIL WORK</b>				
1	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a 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 from 1.5m to 3.0m) By Mechanical Means (SSR 2021-22 Item No .21.04 )	167.00	284	Cu.m	47428.00
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 Manual Means (SSR 2021-22 Item No .21.05 )	150.00	417	Cu.m	62550.00
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)(SSR 2021-22 Item No .24.01 )	102.00	6534	Cu.m	666468.00
4	Providing and laying in situ /Ready Mix cement concrete M-25 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)(SSR 2021-22 Item No .25.11 )	39.00	7865	Cu.m	306735.00
5	Providing & casting in situ cement concrete M-20 of trap/ granite/ quartzite/gneiss metal for RCC columns as per detailed drawings & designor as directed including centring, formwork, compaction, & roughening if special finish is to be provided & curing (Excluding reinforcement ) complete (SSR 2021-22 Item No .25.11 )	36.00	7865	Cu.m	283140.00

  
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 Chartered Engineer and valuer  
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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. Plinth Beam 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) (SSR 2021-22 Item No .25.31)	14.60	15324	Cu.m	223730.40
7	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 )	72.50	8664	Cu.m	628140.00
8	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 )	612.00	649	Cu.m	397188.00
9	Providing and fixing in position TMT-FE-500 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 completed. (SSR 2021-22 Item No.26.33 )	5.00	84627	M.T.	423135.00
10	Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.(SSR 2021-22 Item No .33.30 )	510.00	880	Sq.Mt.	448800.00
11	Providing and fixing green marble of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing / moulding the sharp edges wherever necessary, curing, etc. complete. (SSR 2021-22 Item No .33.48 )	10.32	2769	Sq.Mt.	28576.08
12	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete. (SSR 2021-22 Item No .32.07 )	175.00	495	Sq.Mt.	86625.00
13	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 1Kilogramper 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.. (SSR 2021-22 Item No .32.11 )	318.00	706	Sq.Mt.	224508.00
14	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete. (SSR 2021-22 Item No .40.01 )	14.0	2177	Sq.Mt.	30478.00

15	<p>Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 Kilogram/Running metre. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 Kilogram/Running metre.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising without box (SSR 2021-22 Item N39.42 )</p>	14.0	5627	Sq.Mt.	78778.00
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16	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) (With mechanical gear)(SSR 2021-22 Item No .39.25 )	70.0	5581	SQM	390670.00
17	Providing and applying interior wall finish luster of approved make on internal wall surface as detailed below Scrapping the surface with emery paper and wipe clean wall primer with brush with mineral turpentine with brush 8 to 10% and oil 15 to 20% with roller and allowing to dry for a period 6 to 8 hours.wall putty with appropriate proportion of water allowing to dry for period 4 to 6 hours. Scrapping with Emery paper 180 and wipe clean. Applying wall primer with brush with mineral turpentine 8 to 10% and oil 15 to 20% with roller Scrapping Emery paper 320 and wipe clean, interior wall finish luster 1st coat with brush/rubber/spray with mineral turpentine 7 to 9% and Oil with roller 19 to 21% After 8 hours of activity Applying 2nd coat or wall finish Lustre with mineral turpentine 7 to 9 % with brush and Oil with roller 19 to 21% after allowing dry for the period of 6 to 8 hours activity. (With prior approval of S.E.) (SSR 2021-22 Item No .36.20 )	175.00	265	Sq.Mt.	46375.00
18	Providing and applying two coats of exterior acryallic emulsion paint confirming to corresponding I.S. of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface, applying primer coat ,scaffolding if necessary , and watering the surface for two days etc complete (SSR 2021-22 Item No .35.25 )	318.00	283	Sq.Mt.	89994.00
<b>B</b>	<b>Royalty</b>				
1	Murrum /Rubble				
2	Sand ( Natural /River)	612	216	M3.	132192.00
<b>C</b>	<b>LAB TEST ITOMS</b>	40	237	M3.	9480.00
1	CEMENT :-Fineness, Consistency, Setting Time, Compressive strength, Specific gravity.	1	2500	NOS.	2500.00
2	M20 CONCRETE ;-i)Mix Design with all tests on basic materials	1	3200	NOS.	3200.00
3	Concrete cube compressive strength	2	400	NOS.	800.00
4	BRICKS :-Water Absorption (Set of 5 Bricks), Compressive strength (Set of 5 Bricks), Efflorescence (Set of 5 Bricks)	1	500	NOS.	500.00
5	TMT STEEL :-Yield stress, ultimate tensile stress, elongation, weight per running meter.	2	1100	NOS.	2200.00
<b>D</b>	<b>Management of Strategies and Implementation Plan (MSIP) To Manage The Environmental ,Social ,Heath &amp; Safety (ESHS) Risk &amp; ESHS Code Of Conduct</b>	1	50000	LUMSUM	50000.00
<b>E</b>	<b>Structural Fabrication</b>				

3	Supply & Fixing of PPGI Roof & Wall sheets of 0.5 mm thick as shown in drawing or as directed by engineer incharge with all necessary accessories.(Essar) Make)	13.2	120000	MT	1584000.00
4	Supply & Fixing of 0.5 mm thk PPGI Roof accessories as per drawing or as directed by engineer incharge-CORNER , BOTTOM, CANOPY , APRRON , FLASHING,CENTRE RIDGE , GABLE FLASHING , GUTTER , DOWWN TAKE PIPE .	304	531	MT	161424.00
				BASIC TOTAL	11743115.07

*Abhay V. Deshmukh*

**Abhay V. Deshmukh**  
 (B.E. Civil AMIE FIV)  
 Chartered Engineer and valuer  
 Vaduj, Tal.- Khatav (SATARA)



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