

S. S. Gawhad B.E Civil, M.B.A

Civil Engineer Buldana
Mo. No. 9146647454

Estimate for machinery Shed for Sanvardhansrushti Farmer Producer Company Ltd.
At. Malkapur Tq. Malkapur dist. Buldana

| S.No | Item of Work | Qty. | Rate | Per | Amount |
|------|--|-------|----------|-----|-----------|
| 1 | Excavation for Foundation in earth soil of all type, sand gravel murum etc. comp | | | | |
| | CSR It. No. 1 Pg.No. 1 | 56.70 | 165.00 | Cum | 9355.50 |
| 2 | Excavation for Foundation for Hard Murum including | 40.50 | 165.00 | Cum | 6682.50 |
| | CSR It No. 2 Pg.No. 1 | | | | |
| 3 | Providing and laying is situ, cement concrete in 1:3:6 of trap metal for foundation and bedding -- | | | | |
| | Rate as per C.S.R. Item No. 3, Page No.8 | 55.35 | 3500.00 | Cum | 193725.00 |
| 4 | Filling in plinth and floors with avabale approved material /murum / stone dust in 15 cm. to 20 cm layers including watering and compaction | | | | |
| | Rate as per CSR It.No 8 page No. 3 | 97.20 | 77.00 | Cum | 7484.40 |
| 5 | Providing and laying in situ cement concrete of required grade of trap / granite/ quartzite / gneiss metal for R.C.C. work in foundations like raft, grillages, strip foundations and footings ----- | | | | |
| | a) For C.C.M-25 | 25.07 | 4930.00 | Cum | 123597.07 |
| | Rate as per C.S.R. Item No. 2, Page No.11. | | | | |
| 6 | Providing and casting in situ cement concrete of required grade of trap / granite /quartzite/ gneiss metal for R.C.C. columns ----- | | | | |
| | a) For C.C.M-25 | 17.01 | 10086.00 | Cum | 171562.86 |
| | Rate as per C.S.R. Item No.3, Page No.12. | | | | |

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|----|---|--------|---------|------|-----------|
| 7 | Providing and casting in situ cement concrete of required grade of trap / granite / quartzite / gneiss metal for R.C.C. beams and lintels----- | | | | |
| | a) For C.C.M-25 | | | | |
| | Rate as per C.S.R. Item No. 5, Page No.12. | 11.48 | 8600.00 | Cum | 98718.02 |
| 8 | Filling in plinth and floors with contractors approved material / murum / stone dust in 15 cm. to 20 cm layers including watering and compaction | | | | |
| | Rate as per CSR It.No 8 page No. 3 | 256.49 | 680.00 | Cum | 174410.78 |
| 9 | Filling in plinth and 80 mm Soling with contractors approved material / murum / stone dust in 15 cm. to 20 cm layers including watering and compaction | | | | |
| | | 63.33 | 980.00 | Cum | 62063.71 |
| 10 | Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in for Plinth ----- | | | | |
| | | 22.00 | 5144.00 | Cum | 113181.99 |
| | Rate as per C.S.R. Item No. 4, Page No.19 | | | | |
| 11 | Providing and casting situ cement concret for coping | | | | |
| | | 2.75 | 9206.00 | Cum | 25319.63 |
| 12 | Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in Super structure ----- | | | | |
| | Rate as per C.S.R. Item No. 4, Page No.19 | 54.47 | 5307.00 | Cum | 289086.83 |
| 13 | Providing internal cement plaster 20 mm. thick in single coat in cemen' mortar 1:3 without neeru finish to stone masoanary surface in all Positions including Scaffolding and curing. Provinding groove at joint of stone masonry and concret members complete. | | | | |
| | Rate as per C.S.R. Item No. 6, Page No.32 | 134.99 | 378.00 | Sqmt | 51025.46 |

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|----|---|--------|----------|------|-----------|
| 14 | Providing sand faced plaster externally in cement sand, in all positions including base coat of 15mm. thick in C.M. 1:4, ----- | | | | |
| | Rate as per C.S.R. Item No. 11, Page No.32. | 295.30 | 608.00 | sqmt | 179544.83 |
| 15 | Providing and fixing rolling steel shutters fabricated from 20 guage steel laths with slide guides, bottom rail, brackets, door suspension shaft, housing box at the top including mechanical gear operation arrangement and one coat of red lead primer etc. complete. | | | | |
| | Spec.No.: Bd.T.56/Page No.511. | 40.80 | 2600.00 | Sqm | 106080.00 |
| 16 | Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed design 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 two coats of oil painting of approved quality and shade complete. | | | | |
| | Spec. No. : Bd.C. 8/Page No. 278 | 4.99 | 97759.00 | M.T. | 487419.82 |
| | CSR It No. 4 Pg. No. 5 | | | | |
| 17 | Providing and fixing 6 mm thick ISI mark Colour Corrugated (Big size) Sheet roofing including galvanized iron J or L hook bolts galvanized iron band bituminous galvanized iron washers, galvanized iron champs and bolts and nuts and scaffolding complete. | | | | |
| | Spec.No.: As directed by Engineer- in-charge. | 325.80 | 1020.00 | Sqm | 332316.00 |
| | CSR 56/ item code BDR 7 | | | | |

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|----|--|--------|----------|-----|------------|
| 18 | Providing and applying washable oil bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces (excluding the primer coat) complete. | | | | |
| | For New surface | 149.27 | 65.00 | sqm | 9702.42 |
| | Spec.No.: Bd.P.5/Page No.413 | | | | |
| | CSR It.No. 11 Page No. 61 | | | | |
| 19 | Providing and fixing in position reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams and columns, canopies, staircases, newels, chajjas, lintels, pardies, coping, fins, arches etc. as per detailed design and drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required completed. | | | | |
| | a) Mild steel / HYSD bars | 17.63 | 89703.00 | M.T | 1581220.54 |
| | Spec.No.: Bd.F.17/Page No.306 | | | | |
| 20 | 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 complete. (Sample and brand is to be got approved from Ex. Engineer before use) | | | | |
| | Spec.No.: Bd.O.8/Page No.406 | | | | |
| | CSR It No. 23 Page No. 58 | 295.30 | 70.00 | Sqm | 20671.28 |

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|----|--|--------|--------|-----|------------|
| 21 | Providing Preconstruction Anti-termitic treatment by treating the back fill in immediate contact with foundation at the rate of 5 litres of an emulsion concentrate of one percent concentration of CHLORPYRIFOC 20% EC ISI approved conforming to I.S.8944 per square metre of vertical surface area by high volume sprayer with ten years guarantee bond as per I.S. 6313 (Part II) of 1971. | | | | |
| | Spec.No.: As directed by Engineer-in-charge. | 782.13 | 70.00 | Sqm | 54748.99 |
| | CSR It. No. 2 Page No. 130 | | | | |
| 22 | Providing Postconstructional Anti-termitic treatment to the soil along the external wall by punching holes of 12 to 1.5 cm diameter about 30 to 60 cm deep at 15 cm centre to centre as close to the wall as possible and inject one percent concentration of CHLORPYRIFOC 20% EC ISI approved conforming (I.S.8944) at the rate of 7.5 litre emulsion concrete per square metre and sealing the same with proper filling with two years guarantee bonds as per I.S.6313 (Part III) of 1971. | | | | |
| | Spec.No.: As directed by Engineer-in-charge. | 875.16 | 74.00 | Sqm | 64761.84 |
| | CSR It. No. 4 Pg.No. 130 | | | | |
| 23 | Providing and laying Try Mix flooring Plain platform of proper level C.C M 20 etc comp. | 27.16 | 626.00 | Sqm | 17002.16 |
| | Total | | | | |
| | Supervision Charges 2% | | | | 4179681.65 |
| | Total | | | | |
| | G.S.T 18 % | | | | 4179681.65 |
| | Labour Insurance 2% | | | | 752342.70 |
| | labour sase 2% | | | | 83593.63 |
| | Grand Total | | | | 83593.63 |
| | elictification charges | | | | 5099211.62 |
| | Total | | | | 5099200.00 |

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 Chartered Engineer
 Reg.No. AM3008293

Detail Estimate for Machinery shed for Sanvardhansrushti Farmers Producer Company Ltd.
Malkpur Tq. Malkapur Dist. Buldhana

| Sr. No. | Items of work | No | L | B | H | Qty |
|---------|--|-------|--------------|--------------|------|-------|
| 1 | Excavation for Foundation in earth soil of all type, sand gravel murum etc. comp | 36.00 | 1.50 | 1.50 | 0.70 | 56.70 |
| 2 | Excavation for Foundation for Hard Murum including | 36.00 | 1.50 | 1.50 | 0.50 | 40.50 |
| 3 | Providing and laying is situ, cement concrete in 1:3:6 of trap metal for foundation and bedding -- | 36.00 | 1.50 | 1.50 | 0.15 | 12.15 |
| | Rate as per C.S.R. Item No. 3, Page No.8 | 1.00 | 12.00 | 24.00 | 0.15 | 43.20 |
| | | | | | | 55.35 |
| 4 | Filling in plinth and floors with avabale approved material /murum / stone dust in 15 cm. to 20 cm layers including watering and compaction | | | | | |
| | Rate as per CSR It.No 8 page No. 3 | 36.00 | 1.50 | 1.50 | 1.20 | 97.20 |
| 5 | Providing and laying in situ cement concrete of required grade of trap / granite/ quartzite / gneiss metal for R.C.C. work in foundations like raft, grillages, strip foundations and footings ----- | | | | | |
| | a) For C.C.M-25 | 36.00 | 1.50 | 1.50 | 0.15 | 12.15 |
| | Rate as per C.S.R. Item No. 2, Page No.11. | 36.00 | $.5 + .45/2$ | $.5 = .30/2$ | 0.40 | 12.92 |
| | | | 0.97 | 0.93 | | 25.07 |
| 6 * | Providing and casting in situ cement concrete of required grade of trap / granite /quartzite/ gneiss metal for R.C.C. columns ----- | | | | | |
| | a) For C.C.M-25 | 36.00 | 0.30 | 0.45 | 3.50 | 17.01 |
| 7 | Providing and casting in situ cement concrete of required grade of trap / granite /quartzite /gneiss metal for R.C.C. beams and lintels----- | | | | | |
| | a) For C.C.M-25 | 26.00 | 3.33 | 0.23 | 0.40 | 7.97 |
| | Rate as per C.S.R. Item No. 5, Page No.12. | 10.00 | 3.30 | 0.23 | 0.38 | 2.88 |
| | | 2.00 | 3.60 | 0.23 | 0.38 | 0.63 |
| | | | | | | 11.48 |

| | | | | | | |
|----|---|-------|-------|-------|------|--------|
| 8 | Filling in plinth and floors with contractors approved material /murum / stone dust in 15 cm. to 20 cm layers including watering and compaction | | | | | |
| | Rate as per CSR It.No 8 page No. 3 | 1.00 | 23.54 | 11.54 | 0.90 | 244.49 |
| | For Road | 1.00 | 10.00 | 6.00 | 0.20 | 12.00 |
| | | | | | | 256.49 |
| 9 | Filling in plinth and 80 mm Soling with contractors approved material /murum / stone dust in 15 cm. to 20 cm layers including watering and compaction | 1.00 | 23.54 | 11.54 | 0.20 | 54.33 |
| | For Road | 1.00 | 10 | 6 | 0.15 | 9.00 |
| | | | | | | 63.33 |
| 10 | Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in for Plinth ----- | | | | | |
| | Rate as per C.S.R. Item No. 4, Page No.19 | 26.00 | 3.33 | 0.23 | 0.80 | 15.93 |
| | | 10.00 | 3.30 | 0.23 | 0.80 | 6.07 |
| | | | | | | 22.00 |
| 11 | Providing and casting situ cement concret for coping | | | | | |
| | | 26.00 | 3.33 | 0.23 | 0.10 | 1.99 |
| | | 10.00 | 3.30 | 0.23 | 0.10 | 0.76 |
| | | | | | | 2.75 |
| 12 | Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in Super structure ----- | | | | | |
| | Rate as per C.S.R. Item No. 4, Page No.19 | 26.00 | 3.33 | 0.23 | 2.10 | 41.82 |
| | | 10.00 | 3.30 | 0.23 | 2.10 | 15.94 |
| | | | | | | 57.76 |
| | Deduction for opening | 2.00 | 3.40 | 0.23 | 2.10 | 3.28 |
| | | | | | | 3.28 |
| | Net qty | | | | | 54.47 |

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|----|---|-------|-------|--|------|--------|
| 13 | Providing internal cement plaster 20 mm. thick in single coat in cement mortar 1:3 without neeru finish to stone masasonry surface in all Positions including Scaffolding and curing. Providing groove at joint of stone masonry and concret members complete. | | | | | |
| | | 2.00 | 23.54 | | 2.10 | 98.87 |
| | Rate as per C.S.R. Item No. 6, Page No.32 | 2.00 | 12.00 | | 2.10 | 50.40 |
| | | | | | | 149.27 |
| | Deduction for opening | 2.00 | 3.40 | | 2.10 | 14.28 |
| | | | | | | 14.28 |
| | Net Qty | | | | | 134.99 |
| 14 | Providing sand faced plaster externally in cement sand,in all positions including base coat of 15mm. thick in C.M. 1:4, ----- | 25.00 | 3.33 | | 2.10 | 181.82 |
| | Rate as per C.S.R. Item No. 11, Page No.32. | 10.00 | 3.30 | | 2.10 | 69.30 |
| | | 26.00 | 0.23 | | 3.10 | 18.54 |
| | | 56.00 | 0.23 | | 3.10 | 39.93 |
| | | | | | | 309.58 |
| | Deduction For opening | 2.00 | 3.40 | | 2.10 | 14.28 |
| | | | | | | 14.28 |
| | Net Quantity | | | | | 295.30 |
| 15 | Providing and fixing rolling steel shutters fabricated from 20 guage steel laths with slide guides, bottom rail, brackets, door suspension shaft, housing box at the top including mechanical gear operation arrangement and one coat of red lead primer etc. complete. | | | | | |
| | Spec.No.: Bd.T.56/Page No.511. | | | | | |
| | Csr It.No. 6 Pg.No. 78 | 3.40 | 3.00 | | 4.00 | 40.80 |
| 16 | Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed design 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 two coats of oil painting of approved quality and shade complete. | | | | | |
| | Spec. No. : Bd.C. 8/Page No. 278 | | | | | |

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|-------------------------|---|-------|-------|--------|---------|
| CSR It No. 4 Pg. No. 5 | | | | | |
| Anchor Bolt 20 mm Dia | 18.00 | 6.00 | 0.90 | | 97.20 |
| weight @ 2.49 kg | | | | | 242.03 |
| Vertical pipe | 36.00 | 6.00 | | | 216.00 |
| weight @7.54 kg/rmt | | | | | 1628.64 |
| Rafter | 22.00 | 12.00 | | 264.00 | |
| | | | | 264.00 | |
| weight @ 5.54 kg /rmt | | | | | 1462.56 |
| Vertical member 75 mm | 11.00 | 0.60 | | 6.60 | |
| | 22.00 | 0.45 | | 9.90 | |
| | 22.00 | 0.30 | | 6.60 | |
| | 22.00 | 0.10 | | 2.20 | |
| Inclind member | 22.00 | 2.50 | | 55.00 | |
| Purlins | 22.00 | 12.00 | | 264.00 | |
| Runner | 2.00 | 12.00 | | 24.00 | |
| Weight @ 4.54 kg/ rmt | | | | 368.30 | 1638.94 |
| Base Plate | 36.00 | 0.30 | 0.30 | 3.24 | 13.77 |
| | Total | | | | 4985.93 |
| | | | | | 4.99 |
| 17 | Providing and fixing 6 mm thick ISI mark Colour Corrugated (Big size) Sheet roofing including galvanized iron J or L hook bolts galvanized iron band bituminous galvanized iron washers, galvanized iron champs and bolts and nuts and scaffolding complete. | | | | |
| | Spec.No.: As directed by Engineer- in-charge. | | | | |
| | 2.00 | 6.50 | 24.00 | | 312.00 |
| | 2.00 | 3.45 | | 2.00 | 13.80 |
| CSR 56/ item code BDR 7 | | | | | 0.00 |
| | | | | | 325.80 |
| 18 | Providing and applying washable oil bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces (excluding the primer coat) complete. | | | | |
| | 149.27 | | Sqm | 0.00 | 149.27 |

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|----|--|---------|--------|-------|----------|--------|
| 19 | Providing and fixing in position reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams and columns, canopies, staircases, newels, chajjas, lintels, pardijs, coping, fins, arches etc. as per detailed design and drawings and schedules including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required completed. | | | | | |
| | | footing | 25.07 | 80.00 | 2005.63 | |
| | | Coloum | 17.01 | 80.00 | 1360.80 | |
| | | Beam | 11.48 | 80.00 | 918.31 | |
| | | Trimix | 444.75 | 30.00 | 13342.55 | |
| | | | | | 17627.29 | 17.63 |
| | | | | | | M.T |
| 20 | 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 complete. (Sample and brand is to be got approved from Ex. Engineer before use) | | | | | |
| | Spec.No.: Bd.O.8/Page No.406 | m no 14 | | | | 295.30 |
| | CSR It No. 23 Page No. 58 | | | | | Sqm |
| 21 | Providing Preconstruction Antitermite treatment by treating the back fill in immediate contact with foundation at the rate of 5 litres of an emulsion concentrate of one percent concentration of CHLORPYRIFOC 20% EC ISI approved conforming to I.S.8944 per square metre of vertical surface area by high volume sprayer with ten years guarantee bond as per I.S. 6313 (Part II) of 1971. | | | | | |
| | Spec.No.: As directed by Engineer- in-charge. | | | | | |
| | | 40.00 | 1.50 | 1.50 | | 90.00 |
| | CSR It. No. 2 Page No. 130 | 39.46 | 17.54 | | | 692.13 |
| | | | | | | 782.13 |

| | | | | | |
|----|--|------|-------|-------|--------|
| 22 | Providing Postconstructional Anti- termite treatment to the soil along the external wall by punching holes of 1.2 to 1.5 cm diametre about 30 to 60 cm deep at 15 cm centre to centre as close to the wall as possible and inject one percent concentration of CHLORPYRIFOC 20% EC ISI approved conforming (I.S.8944)at the rate of 7.5 litre emulsion concrete per square metre and sealing the same with proper filling with two years guarantee bonds as per I.S.6313 (Part III) of 1971. | 2.00 | 38.56 | 7.20 | 555.26 |
| | | 2.00 | 17.54 | 7.20 | 252.58 |
| | Spec.No.: As directed by Engineer- in-charge. | 2.00 | 38.56 | 0.60 | 46.27 |
| | CSR It. No. 4 Pg.No. 130 | 2.00 | 17.54 | 0.60 | 21.05 |
| | | | | | 875.16 |
| 23 | Providing and laying Try Mix Flooring 100 MM Thick M20 Concrete Etc. th Plain platform of proper level etc comp. | 1 | 11.54 | 38.54 | 444.75 |
| | | | | | |

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