



Name of Work :Estimate prepared for Construction of Godown for Bhandare farmer producer company limited  
G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded

### RECAPITULATION SHEET


|                        |            |                |
|------------------------|------------|----------------|
| (A) COST OF Civil WORK | Rs.        | 3989846        |
| (B) Add 18% GST        | Rs.        | 718172         |
| (B) Add 0.5% Insurance | Rs.        | 19949          |
| C)Add contingency      |            | 22033          |
| <b>TOTAL</b>           | <b>Rs.</b> | <b>4750000</b> |

Name of Work :Estimate prepared for Construction of Godown for Bhandare farmer producer company limited G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded

| ABSTRACT SHEET |  |          |          |      |           |
|----------------|--|----------|----------|------|-----------|
| Sr. No.        | Item Description   | Quantity | Rate     | Unit | Amount    |
| 1              | Excavation for foundation in earth, soils of all types, sand gravel and soft murum, including the removing the excavate material up to a distance of 50 meter beyond the building area preparing the bed for the foundation and necessary back filling ramming watering (including shoring and strutting etc complete life up to 1.50metre).(Item No. 21.02 BDA 1 ; Page.No.197)   | 18.79    | 207.00   | Cum  | 3889.94   |
| 2              | Excavation for foundation in hard murum including removing the excavated material ---etc. complete (Item No.21.06 BDA 2 Page.No.197)   | 50.11    | 227.00   | Cum  | 11375.42  |
| 3              | Filling in plinth and floors with contractors soil ,sand or murum in 15cm to20cm (Item No.21.37 BDA 11 Page.No.201)  | 371.86   | 819.06   | Cum  | 304572.38 |
| 4              | Providing and laying in situ cement concrete in 1:3:6 of trap/ granite /quartzite /gneiss metal for foundation and bedding --- etc. complete. (Item No.24.01 BDE 1B Page.No.226)   | 5.83     | 6269.28  | Cum  | 36562.43  |
| 5              | Providing and laying in situ. Cement concrete M-15/1:2:4 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water manually , formwork, compacting, curing etc. complete. Bd.E.1 Page No.287 (I.no.24.16, p.no.229)  | 29.89    | 6811.54  | Cum  | 203567.06 |
| 6              | Providing and laying insitu c.c. M-20 of trap/ for footing .etc.complete.(Item No.25.11 BDF 3 Page.No.230)   | 11.46    | 7527.29  | Cum  | 86280.79  |
| 7              | Providing and casting in situ cement concrete M-20 of trap/ geanite /quartzite gneiss metal for reinforced -cement concrete columns - etc. complete. (Item No.25.31,BDF 5 Page.No.232)   |          |          |      |           |
|                | Ground floor --  | 20.05    | 14206.29 | Cum  | 284891.77 |
| 8              | Providing and casting in situ cement concrete M- 20 of trap/ quartzite/ gneiss metal for reinforced cement concrete beams and lintels ....etc complete. (Excluding reinforcement )(8.50 bag/cum)(Item No.25.50 BDF 6A Page.No.234)   |          |          |      |           |
|                | Ground floor --  | 24.13    | 12692.29 | Cum  | 306324.35 |
| 9              | Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.25.70 BDF 8 Page.No.236) | 3.24     | 14355.29 | Cum  | 46511.13  |
| 10             | 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, laying/pumping, compacting 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.26.05 BDF 9 Page.No.239)  | 3.31     | 14266.94 | cum  | 47187.90  |
| 11             | Providing & fixing in position T.M.T.bar reinforcement of various diameters for reinforced cement concrete pile caps, footing, foundation, slabs, beams, columns, canopies, stair case, newels, chajjas, lintels, pardis, copings, fins, arches -etc. complete .(Item No.26.33, BDF 17A Page.No.245)   |          |          |      |           |

| Sr. No. | Item Description  | Quantity | Rate     | Unit | Amount    |
|---------|---|----------|----------|------|-----------|
|         |   | 7.59     | 89955.43 | M.T. | 682459.44 |
| 12      | Providing masonry with conventional/ Indian standard type bricks in c.m. 1:6 in foundation and plinth –etc. complete. (Item No.27.03 BDG 1 Page.No.254)   |          |          |      |           |
|         | Ground floor --   | 7.29     | 7893.85  | Cum  | 57575.82  |
| 13      | 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 (Item No 27.05 BDG 1 Page No 254)  |          |          |      |           |
|         | Ground floor --   | 52.83    | 8373.85  | Cum  | 442402.50 |
| 14      | 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.(Item No.32.11 BDG  |          |          |      |           |
|         | Ground floor --   | 317.17   | 640.36   | Sqm  | 203103.79 |
| 15      | Providing internal cement plaster 12 mm. thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces etc.complete. (Item No.32.03 BDL 2 Page.No.268)   |          |          |      |           |
|         | Ground floor --   | 289.37   | 272.36   | Sqm  | 78812.93  |
| 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) (Without mechanical gear)(Item No.39.24 BDT Page.No.318)   |          |          |      |           |
|         | Ground floor --   | 27.45    | 4830.36  | Sqm  | 132593.34 |
| 17      | 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  |          |          |      |           |
|         | Ground floor --   | 28.15    | 2097.00  | Sqm  | 59034.74  |
| 18      | Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge 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 with all required screws and nuts etc, complete. With powder coating with box (Item No 39.39 BDT Page No 322) |          |          |      |           |
|         | Ground floor --   | 28.15    | 5284.00  | Sqm  | 148755.17 |

| Sr. No. | Item Description   | Quantity | Rate    | Unit         | Amount            |
|---------|--|----------|---------|--------------|-------------------|
| 19      | 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. (Item No.35.15 , Page.No.287)   |          |         |              |                   |
|         | Qty. as per I. No.14   | 317.17   | 104.00  | Sqm          | 32985.89          |
| 20      | Providing and applying washable oil bound distemper of approved colour and shade to old and new two coats, including scaffolding if necessary, cleaning and preparing the surface complete. Complete .(I.no.36.11,,p.no.291) item code- BDp5A-p.no.413   |          |         |              |                   |
|         | Qty. as per I. No.15   | 289.37   | 48.00   | Sqm          | 13889.86          |
| 21      | Providing and fixing self supporting steel roofing system (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance +/- 2 millimeter), moulded at site using mechanical press die to the desired curve and shape to form 605 millimeter wide interlocking panels. The interlocking panels shall | 217.82   | 3351.00 | Sqm          | 729923.20         |
| 22      | Testing charges  |          |         |              | 0.00              |
|         | i) Bricks- water absorption, compressive strength  | 2        | 2050.00 | No.          | 4100              |
|         | ii) Concrete- Compressive Strength   | 5        | 650.00  | No.          | 3250              |
|         | iii) Steel - Tensile strength & other  | 3        | 1500.00 | No.          | 4500              |
|         | <b>Total Rs.</b>   |          |         |              | <b>3924549.84</b> |
| 16      | <b>Royalty</b>   | 65295.76 |         |              | <b>65295.76</b>   |
|         |  |          |         | <b>Total</b> | <b>3989845.60</b> |
|         |  |          |         | <b>Say</b>   | <b>3989846</b>    |

  
**K.V. AMRUTWAD**  
 B.E. (Civil)  
 CONSULTING ENGINEER  
 R.No.TP/NWCMC/ENGG/44

Name of Work :Estimate prepared for Construction of Godown for Bhandare farmer producer company limited G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded


MEASUREMENT SHEET

| Sr. No.      | Item Description   | Nos | Length (M) | Breadth (M) | Height/ Dept. (M) | Quantity     | Units      |
|--------------|--|-----|------------|-------------|-------------------|--------------|------------|
| 1            | Excavation for foundation in earth, soils of all types, sand gravel and soft murum, including the removing the excavate material up to a distance of 50 meter beyond the building area preparing the bed for the foundation and necessary back filling ramming watering (including shoring and strutting etc complete life up to Godown-column footing - 2x5 | 16  | 1.50       | 1.50        | 0.45              | 16.20        |            |
|              | -2X2   | 4   | 1.20       | 1.20        | 0.45              | 2.59         |            |
|              | <b>Total</b>   |     |            |             |                   | <b>18.79</b> | <b>Cum</b> |
| 2            | Excavation for foundation in hard murum including removing the excavated material --- etc. complete (Item No.21.06 BDA 2 Page.No.197)  | 16  | 1.50       | 1.50        | 1.20              | 43.20        |            |
|              | Godown-column footing - 2x6  | 4   | 1.20       | 1.20        | 1.20              | 6.91         |            |
|              | -2X2   |     |            |             |                   |              |            |
| <b>Total</b> |  |     |            |             | <b>50.11</b>      | <b>Cum</b>   |            |
| 3            | Filling in plinth and floors with contractors soil ,sand or murum in 15cm to20cm (Item No.21.37 BDA 11 Page.No.201)  | 1   | 15.24      | 24.40       | 1.00              | 371.86       |            |
|              | Godown---  |     |            |             |                   |              |            |
| <b>Total</b> |  |     |            |             | <b>371.86</b>     | <b>Cum</b>   |            |
| 4            | Providing and laying in situ cement concrete in 1:3:6 of trap/ granite /quartzite /gneiss metal for foundation and bedding --- etc. column footing - 2x5   | 16  | 1.50       | 1.50        | 0.15              | 5.40         |            |
|              | 2X1  | 2   | 1.20       | 1.20        | 0.15              | 0.43         |            |
|              | <b>Total</b>   |     |            |             |                   | <b>5.83</b>  | <b>Cum</b> |
| 5            | Providing and laying in situ. Cement concrete M-15/1:2:4 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water manually , formwork, compacting, curing etc. complete. Bd.E.1 Page No.287 (I.no.24.16. p.no.229)  | 1   | 12.65      | 15.75       | 0.15              | 29.89        |            |
|              | Godown-Below flooring -  |     |            |             |                   |              |            |
| <b>Total</b> |  |     |            |             | <b>29.89</b>      | <b>Cum</b>   |            |
| 6            | Providing and laying insitu c.c. M-20 of trap/ for footing ..etc.complete.(Item No.25.11 BDF 3 Page.No.230)  | 16  | 1.20       | 1.20        | 0.45              | 10.37        |            |
|              | Godown- column footing - 2x5   | 2   | 1.20       | 1.20        | 0.38              | 1.09         |            |
|              | <b>Total</b>   |     |            |             |                   | <b>11.46</b> | <b>Cum</b> |
| 7            | Providing and casting in situ cement concrete M-20 of trap/ geanite /quartzite gneiss metal for reinforced -cement concrete columns - etc. complete. (Item Godown -Up to G.L.  | 16  | 0.45       | 0.45        | 1.00              | 3.24         |            |
|              | - Up to P.L.   | 2   | 0.45       | 0.45        | 1.00              | 0.41         |            |
|              | - G.L. to P.L.   | 16  | 0.45       | 0.45        | 1.00              | 3.24         |            |
|              | - G.L. to P.L.   | 2   | 0.38       | 0.38        | 1.00              | 0.29         |            |
|              | PL. to Terrace   | 16  | 0.45       | 0.45        | 3.65              | 11.83        |            |
|              | PL. to Terrace   | 2   | 0.38       | 0.38        | 3.65              | 1.05         |            |
|              | <b>Total qty.</b>  |     |            |             |                   | <b>20.05</b> | <b>Cum</b> |
| 8            | Providing and casting in situ cement concrete M- 20 of trap/ quartzite/ gneiss metal for reinforced cement concrete beams and lintels ....etc complete. (Excluding reinforcement )(8.50 bag/cum)(Item No.25.50 BDF 6A Page.No.234)   | 2   | 12.29      | 0.23        | 0.45              | 2.54         |            |
|              | Godown -Plinth beam-- 1x2  |     |            |             |                   |              |            |

| Sr. No. | Item Description   | Nos | Length (M) | Breadth (M) | Height/ Dept. (M) | Quantity | Units |
|---------|--|-----|------------|-------------|-------------------|----------|-------|
|         | 1x2  | 2   | 24.40      | 0.23        | 0.45              | 5.05     |       |
|         | Lintel beam-- 1x2  | 2   | 12.29      | 0.23        | 0.38              | 2.15     |       |
|         | 1x2  | 2   | 24.40      | 0.23        | 0.38              | 4.27     |       |
|         | Terrace beam-- 1x2   | 2   | 12.29      | 0.23        | 0.60              | 3.39     |       |
|         | 1x2  | 2   | 24.40      | 0.23        | 0.60              | 6.73     |       |
|         |  |     |            |             | Total qty.        | 24.13    | Cum   |
| 9       | Providing and laying cast in situ/ready mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item G.F.-Shutter Landing -3x1 | 3   | 3.60       | 2.00        | 0.15              | 3.24     |       |
|         |  |     |            |             | Total qty.        | 3.24     | Cum   |
| 10      | 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, laying/pumping, compacting 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.26.05 BDF 9 Godown Window chajja --   | 17  | 1.50       | 0.45        | 0.10              | 1.15     |       |
|         | Rolling Shutter Chajja   | 3   | 3.60       | 2.00        | 0.10              | 2.16     |       |
|         |  |     |            |             | Total qty.        | 3.31     | Cum   |
| 11      | Providing & fixing in position T.M.T.bar reinforcement of various diameters for reinforced cement concrete pile caps, footing, foundation, slabs, beams, columns, canopies, stair case, newels, chajjas, lintels, pardis, copings, fins, arches -etc. complete .(Item No 26 33 BDF 17A Page No 245)  |     |            |             |                   |          |       |
|         | Plinth Slab  | 1   | 29.89      | 60          | 1.00              | 1793.14  |       |
|         | Footing  | 1   | 11.46      | 80.00       | 1.00              | 916.99   |       |
|         | Column   | 1   | 20.05      | 100.00      | 1.00              | 2005.39  |       |
|         | Beam   | 1   | 24.13      | 100.00      | 1.00              | 2413.47  |       |
|         | Landing  | 1   | 3.24       | 80.00       | 1.00              | 259.20   |       |
|         | Chajja   | 1   | 3.31       | 60.00       | 1.00              | 198.45   |       |
|         |  |     |            |             | Total             | 7586.64  |       |
|         |  |     |            |             | Total             | 7.59     | M.T   |
| 12      | Providing masonry with conventional/ Indian standard type bricks in c.m. 1:6 in foundation and plinth -etc. complete. (Item No.27.03 BDG 1 Page.No.254)  |     |            |             |                   |          |       |
|         | Godown -Plinth beam-- -- 1x2   | 2   | 15.24      | 0.23        | 0.40              | 2.80     |       |
|         | --1x2  | 2   | 24.40      | 0.23        | 0.40              | 4.49     |       |
|         |  |     |            |             | Total             | 7.29     | Cum   |

| Sr. No. | Item Description  | Nos | Length (M) | Breadth (M) | Height/Dept. (M) | Quantity      | Units      |
|---------|---|-----|------------|-------------|------------------|---------------|------------|
| 13      | 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. (Item No.27.05 BDG 1 Page.No.254)   |     |            |             |                  |               |            |
|         | Godown---   | 2   | 15.24      | 0.23        | 3.65             | 25.59         |            |
|         |   | 2   | 24.40      | 0.23        | 3.65             | 40.97         |            |
|         | <b>Total</b>  |     |            |             |                  | <b>66.56</b>  | <b>Cum</b> |
|         | Deduction -- Rolling Shutter - 1x3  | 3   | 3.00       | 0.23        | 3.00             | 6.21          |            |
|         | Window  | 17  | 1.20       | 0.23        | 1.20             | 5.63          |            |
|         | Door - 1x3  | 3   | 1.05       | 0.23        | 2.10             | 1.52          |            |
|         | Door - 1x1  | 1   | 0.75       | 0.23        | 2.10             | 0.36          |            |
|         |   |     |            |             | Total qty.       | <b>13.72</b>  | <b>Cum</b> |
|         | Net Total Qty.  |     |            | 66.56       | 13.72            | <b>52.83</b>  | <b>Sqm</b> |
| 14      | 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. (Item No.32.11 BDG 7 Page.No.269)  |     |            |             |                  |               |            |
|         | Outer side-- Godown   | 2   | 15.24      |             | 4.65             | 141.73        |            |
|         |   | 2   | 24.40      |             | 4.65             | 226.92        |            |
|         |   |     |            |             | Total qty.       | <b>368.65</b> | <b>Sqm</b> |
|         | Deduction --Godown-- Rolling Shutter-   | 3   | 3.00       |             | 3.00             | 27.00         |            |
|         | Window  | 17  | 1.20       |             | 1.20             | 24.48         |            |
|         |   |     |            |             | Total qty.       | <b>51.48</b>  | <b>Sqm</b> |
|         | Net Total Qty.  |     |            | 368.65      | 51.48            | <b>317.17</b> | <b>Sqm</b> |
| 15      | Providing internal cement plaster 12 mm. thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces etc.complete. (Item No.32.03 BDL 2 Page.No.268)   |     |            |             |                  |               |            |
|         | Inner side-- Godown   | 2   | 15.24      | 3.65        |                  | 111.25        |            |
|         |   | 2   | 24.40      | 3.65        |                  | 178.12        |            |
|         |   |     |            |             | Net qty.         | <b>289.37</b> | <b>sqm</b> |
| 16      | 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)(Item No.39.24 BDT | 3   | 3          |             | 3.05             | 27.45         | Sqm        |
| 17      | 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 (Item No.40.01 BDU 1 Page.No.338)   |     |            |             |                  |               |            |
|         | Grill work  | 17  | 1.38       |             | 1.2              | 28.15         |            |
|         |   |     |            |             | Total qty.       | <b>28.15</b>  | <b>Sqm</b> |

| Sr. No. | Item Description  | Nos | Length (M) | Breadth (M) | Height/ Dept. (M) | Quantity | Units |
|---------|---|-----|------------|-------------|-------------------|----------|-------|
| 18      | 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge 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 with all required screws and nuts etc,<br>Window   | 17  | 1.38       |             | 1.2               | 28.15    |       |
|         |   |     |            |             | Total qty.        | 28.15    | Sqm   |
| 19      | 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. (Item No.35.15 , Page.No.287)<br>Qty. as per I. No.14  |     |            |             |                   | 317.17   | Sqm   |
| 20      | Providing and applying washable oil bound distemper of approved colour and shade to old and new two coats, including scaffolding if necessary, cleaning and preparing the surface complete. Complete<br>(I.no.36.11,,p.no.291) item code- BDP5A-p.no.413<br>Qty. as per I. No.15  |     |            |             |                   | 289.37   | Sqm   |
| 22      | roofing system (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance +/- 2 millimeter), moulded at site using mechanical press die to the desired curve and shape to form 605 millimeter wide interlocking panels. The interlocking panels shall be pressed to close the seam forming watertight joints for a span of 32.5 meter having arch rise as 6.5 meter, arch length 37.7 meter. The base material made up of imported galv alum steel complying to ASTM A792 having base metal thickness of 1.60 millimeter (tolerance +/- 0.02 millimeter with alloy coating AZ150 and paint coating of regular modified polyester, top coat 25 micron and bottom coat 12 micron as per approved colour, including fixing hangers, clamp etc. as may be necessary of Proflex standard, including fixing skylight of 2 millimeter thick polycarbonate sheet of size 2'x14' and turbo ventilator of 24" diameter to be installed every 30 feet along the length of roof including finishing, testing and cleaning etc. complete.. | 1   | 13.83      | 15.75       |                   | 217.82   |       |
|         |   |     |            |             | Total qty.        | 217.82   | sqm   |
| 23      | Testing Charges   |     |            |             |                   |          |       |
|         | i) Bricks- water absorption, compressive strength   | 2   |            |             |                   | 2        | No.   |
|         | ii) Concrete- Compressive Strength  | 5   |            |             |                   | 5        | No.   |
|         | iii) Steel - Tensile strength & other   | 3   |            |             |                   | 3        | No.   |

  
**K.V. AMRUTWAD**  
 B.E. (Civil)  
 CONSULTING ENGINEER  
 R.No.TP/NWCMC/ENGG/44

**Name of Work :Estimate prepared for Construction of Godown for Bhandare farmer producer company limited G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded**

**RATE ANALYSIS**

| Sr. No. | Item Description   | Per unit Quantiy | Lead charges Rs.per unit | Total Amount in Rs. | Units      |
|---------|--|------------------|--------------------------|---------------------|------------|
| 1       | Excavation for foundation in earth, soils of all types, sand gravel and soft murum, including the removing the excavate material up to a distance of 50 meter beyond the building area preparing the bed for the foundation and necessary back filling ramming watering (including shoring and strutting etc complete life up to 1.50metre).(Item No. 21.02 BDA 1 ; Page.No.197) |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 207.00              |            |
|         | <b>Total</b>   |                  |                          | <b>207.00</b>       | <b>Cum</b> |
| 2       | Excavation for foundation in hard murum including removing the excavated material ---etc. complete (Item No.21.06 BDA 2 Page.No.197)   |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 227.00              |            |
|         | <b>Total</b>   |                  |                          | <b>227.00</b>       | <b>Cum</b> |
| 3       | Filling in plinth and floors with contractors soil ,sand or murum in 15cm to20cm (Item No.21.37 BDA 11 Page.No.201)  |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 599.00              |            |
|         | i) Murum   | 1.00             | 220.06                   | 220.06              |            |
|         | <b>Total</b>   |                  |                          | <b>819.06</b>       | <b>Cum</b> |
| 4       | Providing and laying in situ cement concrete in 1:3:6 of trap/ granite /quartzite /gneiss metal for foundation and bedding --- etc. complete. (Item No.24.01 BDE 1B Page.No.226)   |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 5830.00             |            |
|         | Deduct 126 rupees For Scada  |                  |                          | 126.00              |            |
|         |  |                  | <b>Total</b>             | 5704.00             |            |
|         | B)Deduct Royalty charges of sand   | 0.47             | 237.37                   | 111.56              |            |
|         | C) Sub Total   |                  | C=A-B                    | 5592.44             |            |
|         | D) Add Lead Charges  |                  |                          | 0.00                |            |
|         | i) Metal   | 0.94             | 504.36                   | 474.10              |            |
|         | ii) Sand   | 0.47             | 313.21                   | 147.21              |            |
|         | iii) Cement  | 4.40             | 12.62                    | 55.53               |            |
|         | <b>Total</b>   |                  |                          | <b>6269.28</b>      | <b>Cum</b> |

| Sr. No. | Item Description  | Per unit Quantiy | Lead charges Rs.per unit | Total Amount in Rs. | Units      |
|---------|---|------------------|--------------------------|---------------------|------------|
| 5       | Providing and laying in situ. Cement concrete M-15/1:2:4 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water manually , formwork, compacting, curing etc. complete. Bd.E.1 Page No.287 (l.no.24.16, p.no.229) |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23  |                  |                          | 6359.00             |            |
|         | Deduct 126 rupees For Scada   |                  |                          | 126.00              |            |
|         |   |                  | Total                    | 6233.00             |            |
|         | B)Deduct Royalty charges of sand  | 0.445            | 237.37                   | 105.63              |            |
|         | C) Sub Total  |                  | C=A-B                    | 6127.37             |            |
|         | D) Add Lead Charges   |                  |                          | 0.00                |            |
|         | i) Metal  | 0.92             | 504.36                   | 464.01              |            |
|         | ii) Sand  | 0.45             | 313.21                   | 139.38              |            |
|         | iii) Cement   | 6.40             | 12.62                    | 80.78               |            |
|         | <b>Total</b>  |                  |                          | <b>6811.54</b>      | <b>Cum</b> |
| 6       | Providing and laying insitu c.c. M-20 of trap/ for footing ..etc.complete.(Item No.25.11 BDF 3 Page.No.230)   |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23  |                  |                          | 7104.00             |            |
|         | Deduct 126 rupees For Scada   |                  |                          | 126.00              |            |
|         |   |                  | Total                    | 6978.00             |            |
|         | B)Deduct Royalty charges of sand  | 0.425            | 237.37                   | 100.88              |            |
|         | C) Sub Total  |                  | C=A-B                    | 6877.12             |            |
|         | D) Add Lead Charges   |                  |                          | 0.00                |            |
|         | i) Metal  | 0.85             | 504.36                   | 428.71              |            |
|         | ii) Sand  | 0.43             | 313.21                   | 133.11              |            |
|         | iii) Cement   | 7.00             | 12.62                    | 88.35               |            |
|         | <b>Total</b>  |                  |                          | <b>7527.29</b>      | <b>Cum</b> |
| 7       | Providing and casting in situ cement concrete M-20 of trap/ geanite /quartzite gneiss metal for reinforced - cement concrete columns - etc. complete. (Item No.25.31,BDF 5 Page.No.232)   |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23  |                  |                          | 13783.00            |            |
|         | Deduct 126 rupees For Scada   |                  |                          | 126.00              |            |
|         |   |                  | Total                    | 13657.00            |            |
|         | B)Deduct Royalty charges of sand  | 0.425            | 237.37                   | 100.88              |            |
|         | C) Sub Total  |                  | C=A-BC                   | 13556.12            |            |
|         | D) Add Lead Charges   |                  |                          | 0.00                |            |
|         | i) Metal  | 0.85             | 504.36                   | 428.71              |            |
|         | ii) Sand  | 0.43             | 313.21                   | 133.11              |            |
|         | iii) Cement   | 7.00             | 12.62                    | 88.35               |            |
|         | <b>Total</b>  |                  |                          | <b>14206.29</b>     | <b>Cum</b> |

| Sr. No. | Item Description   | Per unit Quantiy | Lead charges Rs.per unit | Total Amount in Rs. | Units      |
|---------|--|------------------|--------------------------|---------------------|------------|
| 8       | Providing and casting in situ cement concrete M- 20 of trap/ quartzite/ gneiss metal for reinforced cement concrete beams and lintels ....etc complete. (Excluding reinforcement )(8.50 bag/cum)(Item No.25.50 BDF 6A Page.No.234)   |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 12269.00            |            |
|         | Deduct 126 rupees For Scada  |                  |                          | 126.00              |            |
|         |  |                  | Total                    | 12143.00            |            |
|         | B)Deduct Royalty charges of sand   | 0.425            | 237.37                   | 100.88              |            |
|         | C) Sub Total   |                  | C=A-B                    | 12042.12            |            |
|         | D) Add Lead Charges  |                  |                          | 0.00                |            |
|         | i) Metal   | 0.85             | 504.36                   | 428.71              |            |
|         | ii) Sand   | 0.43             | 313.21                   | 133.11              |            |
|         | iii) Cement  | 7.00             | 12.62                    | 88.35               |            |
|         | <b>Total</b>   |                  |                          | <b>12692.29</b>     | <b>Cum</b> |
| 9       | Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.25.70 BDF 8 Page.No.236) |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 13932.00            |            |
|         | Deduct 126 rupees For Scada  |                  |                          | 126.00              |            |
|         |  |                  | Total                    | 13806.00            |            |
|         | B)Deduct Royalty charges of sand   | 0.425            | 237.37                   | 100.88              |            |
|         | C) Sub Total   |                  | C=A-B                    | 13705.12            |            |
|         | D) Add Lead Charges  |                  |                          | 0.00                |            |
|         | i) Metal   | 0.85             | 504.36                   | 428.71              |            |
|         | ii) Sand   | 0.43             | 313.21                   | 133.11              |            |
|         | iii) Cement  | 7.00             | 12.62                    | 88.35               |            |
|         | <b>Total</b>   |                  |                          | <b>14355.29</b>     | <b>Cum</b> |

| Sr. No. | Item Description   | Per unit Quantity | Lead charges Rs.per unit | Total Amount in Rs. | Units       |
|---------|--|-------------------|--------------------------|---------------------|-------------|
| 10      | Providing and laying Cast in situ/Ready Mixcement 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, laying/pumping, compacting 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.26.05 BDF 9 Page.No.239) |                   |                          |                     |             |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                   |                          | 13932.00            |             |
|         | Deduct 126 rupees For Scada  |                   |                          | 126.00              |             |
|         |  |                   | Total                    | 13806.00            |             |
|         | B)Deduct Royalty charges of sand   | 0.425             | 237.37                   | 100.88              |             |
|         | C) Sub Total   |                   | C=A-B                    | 13705.12            |             |
|         | D) Add Lead Charges  |                   |                          | 0.00                |             |
|         | i) Metal   | 0.85              | 504.36                   | 428.71              |             |
|         | ii) Sand   | 0.43              | 313.21                   | 133.11              |             |
|         | iii) Cement  | 7.00              | 0.00                     | 0.00                |             |
|         | <b>Total</b>   |                   |                          | <b>14266.94</b>     | <b>Cum</b>  |
| 11      | Providing & fixing in position T.M.T.bar reinforcement of various diameters for reinforced cement concrete pile caps, footing, foundation, slabs, beams, columns, canopies, stair case, newels, chajjas, lintels, pardis, copings, fins, arches -etc. complete .(Item No.26.33, BDF 17A Page.No.245)   |                   |                          |                     |             |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                   |                          | 89703.00            |             |
|         | B) Add Lead Charges  |                   |                          | 0.00                |             |
|         | i) Steel   | 1.00              | 252.43                   | 252.43              |             |
|         | <b>Total</b>   |                   |                          | <b>89955.43</b>     | <b>M.T.</b> |
| 12      | Providing masonry with conventional/ Indian standard type bricks in c.m. 1:6 in foundation and plinth -etc. complete. (Item No.27.03 BDG 1 Page.No.254)  |                   |                          |                     |             |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                   |                          | 7514.00             |             |
|         | B)Deduct Royalty charges of sand   | 0.32              | 237.37                   | 75.96               |             |
|         | C) Sub Total   |                   | C=A-B                    | 7438.04             |             |
|         | D) Add Lead Charges  |                   |                          | 0.00                |             |
|         | i) Brick   | 1.00              | 335.64                   | 335.64              |             |
|         | ii) Sand   | 0.32              | 313.21                   | 100.23              |             |
|         | iii) Cement  | 1.58              | 12.62                    | 19.94               |             |
|         | <b>Total</b>   |                   |                          | <b>7893.85</b>      | <b>Cum</b>  |

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| Sr. No. | Item Description  | Per unit Quantiy | Lead charges Rs.per unit | Total Amount in Rs. | Units      |
|---------|---|------------------|--------------------------|---------------------|------------|
| 13      | 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.(Item No.27.05 BDG 1 Page.No.254)  |                  |                          | 7994.00             |            |
|         | A)Ground Floor-Rate as per SSR 2022-23  |                  |                          | 75.96               |            |
|         | B)Deduct Royalty charges of sand  | 0.32             | 237.37                   | 7918.04             |            |
|         | C) Sub Total  |                  | C=A-B                    | 0.00                |            |
|         | D) Add Lead Charges   |                  |                          |                     |            |
|         | i) Brick  | 1.00             | 335.64                   | 335.64              |            |
|         | ii) Sand  | 0.32             | 313.21                   | 100.23              |            |
|         | iii) Cement   | 1.58             | 12.62                    | 19.94               |            |
|         | <b>Total</b>  |                  |                          | <b>8373.85</b>      | <b>Cum</b> |
| 14      | 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.(Item No.32.11 BDG 7 Page.No.269) |                  |                          | 639.00              |            |
|         | A)Ground Floor-Rate as per SSR 2022-23  |                  |                          | 3.56                |            |
|         | B)Deduct Royalty charges of sand  | 0.015            | 237.37                   | 635.44              |            |
|         | C) Sub Total  |                  | C=A-B                    | 0.00                |            |
|         | D) Add Lead Charges   |                  |                          |                     |            |
|         | i) Sand   | 0.02             | 235.38                   | 3.53                |            |
|         | ii) Cement  | 0.11             | 12.62                    | 1.39                |            |
|         | <b>Total</b>  |                  |                          | <b>640.36</b>       | <b>Sqm</b> |
| 15      | Providing internal cement plaster 12 mm. thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces etc.complete. (Item No.32.03 BDL 2 Page.No.268)   |                  |                          | 271.00              |            |
|         | A)Ground Floor-Rate as per SSR 2022-23  |                  |                          | 3.56                |            |
|         | B)Deduct Royalty charges of sand  | 0.015            | 237.37                   | 267.44              |            |
|         | C) Sub Total  |                  | C=A-B                    | 0.00                |            |
|         | D) Add Lead Charges   |                  |                          |                     |            |
|         | i) Sand   | 0.02             | 235.38                   | 3.53                |            |
|         | ii) Cement  | 0.11             | 12.62                    | 1.39                |            |
|         | <b>Total</b>  |                  |                          | <b>272.36</b>       | <b>Sqm</b> |

| Sr. No. | Item Description   | Per unit Quantiy | Lead charges Rs.per unit | Total Amount in Rs. | Units      |
|---------|--|------------------|--------------------------|---------------------|------------|
| 16      | <p>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)(Item No.39.24 BDT Page.No.318)</p>   |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 4829.00             |            |
|         | B)Deduct Royalty charges of sand   | 0.015            | 237.37                   | 3.56                |            |
|         | C) Sub Total   |                  | C=A-B                    | 4825.44             |            |
|         | D) Add Lead Charges  |                  |                          | 0.00                |            |
|         | i) Sand  | 0.02             | 235.38                   | 3.53                |            |
|         | ii) Cement   | 0.11             | 12.62                    | 1.39                |            |
|         | <b>Total</b>   |                  |                          | <b>4830.36</b>      | <b>Sqm</b> |
| 17      | <p>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 (Item No.40.01 BDU 1 Page.No.338)</p>   |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 2097.00             |            |
|         | <b>Total</b>   |                  |                          | <b>2097.00</b>      | <b>Sqm</b> |
| 18      | <p>Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge 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 with all required screws and nuts etc, complete. With powder coating with box (Item No.39.39 RDT Page No 322)</p> |                  |                          |                     |            |
|         | A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 5284.00             |            |

| Sr. No. | Item Description   | Per unit Quantiy | Lead charges Rs.per unit | Total Amount in Rs. | Units      |
|---------|--|------------------|--------------------------|---------------------|------------|
|         |  |                  |                          | <b>5284.00</b>      | <b>Sqm</b> |
| 19      | 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. (Item No.35.15 , Page.No.287)<br>A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 104.00              |            |
|         |  |                  |                          | <b>104.00</b>       | <b>Sqm</b> |
| 20      | Providing and applying washable oil bound distemper of approved colour and shade to old and new two coats, including scaffolding if necessary, cleaning and preparing the surface complete. Complete .(I.no.36.11,,p.no.291) item code- BDP5A-p.no.413<br>A)Ground Floor-Rate as per SSR 2022-23   |                  |                          | 48.00               |            |
|         |  |                  |                          | <b>48.00</b>        | <b>Sqm</b> |
| 22      | Providing and fixing self supporting steel roofing system (Proflex) for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance +/- 2 millimeter), moulded at site using mechanical press die to the desired curve and shape to form 605 millimeter wide interlocking panels. The interlocking panels shall be pressed to close the seam forming watertight joints for a span of 32.5 meter having a rise of 6.5 meter, arch length 37.7 meter. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 1.60 millimeter (tolerance +/- 0.02 millimeter with alloy coating AZ150 and paint coating of regular modified polyester, top coat 25 micron and bottom coat 12 micron as per approved colour, including fixing hangers, clamp etc. as may be necessary of Proflex standard, including fixing skylight of 2 millimeter thick polycarbonate sheet of size 2'x14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing, testing and cleaning etc. complete.. (I.No.38.53,P.No.297)<br>A)Ground Floor-Rate as per SSR 2022-23 |                  |                          | 3351.00             |            |
|         |  |                  |                          | <b>3351.00</b>      | <b>Sqm</b> |

*K.V.*

**K.V. AMRUTWAD**  
 B.E. (Civil)  
 CONSULTING ENGINEER  
 R.No.TP/NWCMC/ENGG/44

## LEAD CHART

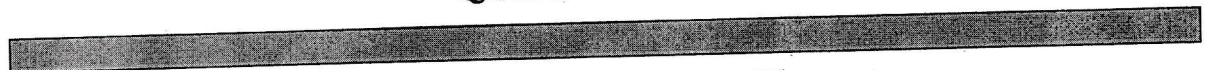
| Sr. No. | Material                   | Source  | Total lead in km | Initial lead | Net lead | Net charges |       |
|---------|----------------------------|---------|------------------|--------------|----------|-------------|-------|
| 1       | Sand                       | SAGROLI | 50               | 0.00         | 313.21   | 313.21      |       |
| 2       | c.r.metal                  | UMRI    | 40               | 0.00         | 504.36   | 504.36      |       |
| 3       | 40 mm above metal          | UMRI    | 40               | 0            | 483.34   | 483.34      |       |
| 4       | Murum                      | Local   | 5                | 0            | 220.06   | 220.06      |       |
| 5       | Brick                      | RAHER   | 15               | 0            | 671.27   | 335.64      |       |
| 6       | Cement                     | Islapur | 0                | 0            | 252.43   | 252.43      | 12.62 |
| 7       | Steel                      | Islapur | 0                | 0            | 252.43   | 252.43      |       |
| 8       | Flooring (Tiles)           | Islapur | 0                | 0            | 25.24    | 25.24       |       |
| 9       | Flooring (Tandur, Granite) | Islapur | 0                | 0            | 25.24    | 25.24       |       |

certified that the lead of the quarries accounted in the estimate as per the nearest route is considered. Lead of the quarry account in the estimate are authentic leads which is to be government approved.

  
**K.V. AMRUTWAD**  
 B.E. (Civil)  
 CONSULTING ENGINEER  
 R.No.TP/NWCMC/ENGG/44

Name of Work :Estimate prepared for Construction of Godown for Bhandare farmer producer company limited  
G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded


### QUARRY CHART



|  |        |
|--|--------|
|  | 100 KM |
|  | 90 KM  |
|  | 80 KM  |
|  | 70 KM  |
|  | 60 KM  |
|  | 50 KM  |
|  | 40 KM  |
|  | 30 KM  |
|  | 25 KM  |
|  | 20 KM  |
|  | 15 KM  |
|  | 10 KM  |

#### CERTIFICATE

Certificated that I have visited the quarry sites & distance shown as lead is corrects & sufficient quantity will be available from quarry.

  
**K.V. AMRUTWAD**  
B.E. (Civil)  
CONSULTING ENGINEER  
R.No.TP/NWCMC/ENGG/44

### Recovery Statement of Royalty

Name of Work : Estimate prepared for Construction of Godown for Bhandare farmer producer company limited G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded

| Sr.No. | Item   | Qty. Estimated | Consumption  |       |               |       | Royalty charges Rs.237.37/cum |      |          | Total    |       |
|--------|--|----------------|--------------|-------|---------------|-------|-------------------------------|------|----------|----------|-------|
|        |  |                | Sand         |       | Stone         |       | Murum /Cum                    | Sand | Stone    |          | Murum |
|        |  |                | Per cum /sqm | Total | Per cum / sqm | Total |                               |      |          |          |       |
| 3      | Filling in plinth and floors with contractors soil ,sand or murum in 15cm to20cm (Item No.21.37 BDA 11 Page.No.201)  | 371.86         | 1            |       |               |       |                               |      | 53643.95 | 53643.95 |       |
| 4      | Providing and laying in situ cement concrete in 1:3:6 of trap/ granite /quartzite /gneiss metal for foundation and bedding --- etc. complete. (Item No.24.01 BDE 1B Page.No.226)   | 5.83           | 0.47         | 2.74  |               |       | 433.88                        | 0.00 |          | 433.88   |       |
| 5      | Providing and laying in situ. Cement concrete M-15/1:2:4 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water manually , formwork, compacting, curing etc. complete. Bd.E.1 Page No.287 (l.no.24.16, p.no.229)  | 29.89          | 0.445        | 13.30 |               |       | 2105.12                       | 0.00 |          | 2105.12  |       |
| 6      | Providing and laying insitu c.c. M-20 of trap/ for footing .etc.complete.  | 11.46          | 0.425        | 4.87  |               |       | 769.70                        | 0.00 |          | 769.70   |       |
| 7      | Providing and casting in situ cement concrete M-20 of trap/ geanite /quartzite gneiss metal for reinforced -cement concrete columns - etc. complete.   | 20.05          | 0.425        | 8.52  |               |       | 1349.09                       | 0.00 |          | 1349.09  |       |
| 8      | Providing and casting in situ cement concrete M- 20 of trap/ quartzite/ gneiss metal for reinforced cement concrete beams and lintels ....etc complete. (Excluding reinforcement )(8.50 bag/cum)(Item No.25.50 BDF 6A Page.No.234)   | 24.13          | 0.425        | 10.26 |               |       | 1623.62                       |      |          | 1623.62  |       |
| 9      | Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings 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 | 3.24           | 0.425        | 1.38  |               |       | 217.97                        |      |          | 217.97   |       |


*K.V.*

**K.V. AMRUTWAD**  
B.E. (Civil)  
CONSULTING ENGINEER  
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## CERTIFICATE

This is certified that:-

- 1 100% Arithmetical check has been exercised while framing the estimate.  
The rates as adopted in the estimate are as per current. Schedule of Rates (S.S.R. 2022-23)
- 2 The Quarries of the construction materials are mentioned in the lead chart have been inspected by me. The lead of materials as mentioned in the lead chart are minimum and correct. There is no other quarry available with lead less than that mentioned in the lead chart. The materials available from quarry are good in Quality and quantity required for construction work
- 3 The lead charges of the construction materials have already been incorporate in the rates of the respective items.
- 4 The quantity of the item as worked out in estimate are based on the detail working drawing/ designs are as per site conditions. The quality of the executed item will not exceed the quantity as worked out in the estimate
- 5 The various provisions made in the estimate are technically adequate and the entire proposal is considered to be technically sound.
- 6 The layout plan and the working drawing of the proposed construction have been prepared as per bye-laws of local authority

  
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