

**BOOKLET OF ESTIMATE.**

**Name Of Work :- Construction Of ZP Primary  
School Two Room At \_\_\_\_\_ Tq.Ashti  
Dist.Beed.**

**Under ( M.G.N.R.E.G.A. 2022-23 )**

**Estimated Cost Rs :- 17.40 Lakh |**

Name Of Work :- Construction Of ZP Primary School Two Room At \_\_\_\_\_ Tq.Ashti Dist.Beed.

Under ( M.G.N.R.E.G.A. 2022-23 )

**GENERAL REPORT**

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General report accompanying the estimate of Construction Of ZP Primary School Two Room At \_\_\_\_\_ Tq.Ashti Dist.Beed..Under ( M.G.N.R.E.G.A. 2022-23 )

Following items are provided in this Estimate

- 1 Excavation for foundation in earth. Soils of all types including
- 2 Excavation for foundation in Hard Murum including removing the excavated material upto a distance of 50 m.
- 3 Providing and laying in situ C.C M-10 1:3:6 prop. For foundation and bedding including formwork
- 4 Providing and laying in situ/ Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. work in foundations
- 5 Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. columns
- 6 Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. beams
- 7 Providing second class Burnt Brick masonry with conventional/ I.S.type bricks in cement mortar 1:6 in foundations and plinth
- 8 Filling in plinth and floors with contractors material/ brought from outside and approved
- 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
- 10 Providing and laying Cast in situ/Ready Mix cement concrete M- 20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja
- 11 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations
- 12 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure
- 13 Providing and fixing solid core flush door shutter in single leaf 32 mm thick

- 14 Providing and fixing steel window C.R.C. sheet as per I.S. 1513 : 1986.  
gauge sect. 65 x 40 x 25 mm shutter single
- 15 Providing and fixing mild steel grill work for windows, ventilators,  
16 Providing and fixing frame with / without ventilator of size as specified  
with Country non teak wood for doors and window
- 17 Providing internal cement plaster 12mm thick in single coat in cement
- 18 Providing sand faced plaster externally in cement mortar using approved  
screened
- 19 Providing and laying Polished Shahabad Stone flooring 25mm to 30mm  
thick
- 20 Providing and applying washable oil- bound distemper of approved  
colour
- 21 Providing and applying three coats of waterproof cement paint of approved  
manufacture and of approved
- 22 Royalty Charges
- 23 GST
- 24 Add Labour Insurance
- The rates are adopted as per SSR 2021-2022 years Estimated cost commens Rs  
17,40,000/-

An early Technical sanction to the estimate is requested please.

Deputy Engineer  
Z.P. (Work) Sub div. Ashti

Name Of Work :- Construction Of ZP Primary School Two Room At \_\_\_\_\_ Tq.Ashti  
Dist.Beed.  
Under ( M.G.N.R.E.G.A. 2022-23 )

**GENERAL ABSTRACT**

| SR.No. | Particular           | Total Cost<br>Of Work | Unskilled<br>Amount | Skilled<br>Amount | Skilled<br>Portion<br>Under (15<br>th F.C ) | Skilled<br>Portion<br>Under<br>MGNAREGA |
|--------|----------------------|-----------------------|---------------------|-------------------|---|---|
| 1      | Const.Of Two<br>Room | 1740024.00            | 485645.00           | 1254379.00        | 192,279.00                                  | 1,062,099.00                            |
|        |                      | Ratio                 | 27.91<br>%          | 72.09<br>%        |   |   |

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of ZP Primary School Two Room At \_\_\_\_\_ Tq.Ashti Dist.Beed.

Under ( M.G.N.R.E.G.A. 2022-23 )

**GENERAL ABSTRACT**

| SR NO. | PARTICULARS                     | TOTAL COST        | SKILLED AMT       | UNSKILLED AMT    |
|--------|---------------------------------|-------------------|-------------------|------------------|
| 1      | COST OF Two Room                | 1,740,024.00      | 1254379.00        | 485645.00        |
|        | <b>GRAND TOTAL ( A+B+C )RS.</b> | <b>1740024.00</b> | <b>1254379.00</b> | <b>485645.00</b> |

|  |                         |      |       |       |
|--|-------------------------|------|-------|-------|
|  | MATERIAL : LABOUR RATIO | 100% | 72.09 | 27.91 |
|--|-------------------------|------|-------|-------|

% %

**TOTAL** 1,740,024.00

**Say** 1740000.00

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of ZP Primary School Two Room At \_\_\_\_\_ Tq.Ashti Dist.Beed.

Under ( M.G.N.R.E.G.A. 2022-23 )

**Abstract (PART- A)**

| DESCRIPTION   | unit | Qty.  | Total Rate | Rate      |         | Total     |          | Total Amount |
|---|------|-------|------------|-----------|---------|-----------|----------|--------------|
|   |      |       |            | Unskilled | Skilled | Unskilled | Skilled  |              |
| Item No. 1 Excavation for foundation in earth. Soils of all types including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.02 P.No.153  | cum  | 33.62 | 207.00     | -         | -       | 6958.00   | -        | 6958.00      |
| Item No. 2 Excavation for foundation in Hard Murum including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.06 P.No.153   | cum  | 20.25 | 227.00     | -         | -       | 4597.00   | -        | 4597.00      |
| Item No. 3 Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of trap/ grani te/ quar tzi te/ gneiss metal for foundation and bedding including bailing out water , formwork, laying/ pumping, compact ing, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLCwith SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.24.01 P.No.176   | cum  | 14.42 | 6400.48    | 1616.00   | 4784.48 | 23307.00  | 69004.00 | 92311.00     |
| Item No. 4 Providing and laying in situ/ Ready Mix cement concrete M-20 of trap/ grani te / quar tzi te/ gneiss metal for R.C.C. work in foundations like raft , strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water , formwork, laying/ pumping cover blocks, compact ion 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 PLCwith SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.25.11 P.No.180   | cum  | 11.21 | 7671.79    | 2110.00   | 5561.79 | 23643.00  | 62320.00 | 85963.00     |
| Item No. 5 Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap / grani te / quar tzi te/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks, laying/ pumping, compact ion 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 natural sand/ V.S.I. quality Artificial Sand it no.25.31 p.no.183 | cum  | 6.26  | 14350.79   | 5252.00   | 9098.79 | 32898.00  | 56993.00 | 89891.00     |

|   |     |       |          |          |          |          |           |           |
|---|-----|-------|----------|----------|----------|----------|-----------|-----------|
| Item No. 6 Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including centering, formwork, cover blocks, laying/ pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. With natural sand/ V.S.I. quality Artificial Sand ( I.NO.25.50 , P.NO.186 )   | cum | 9.70  | 12836.79 | 5085.00  | 7751.79  | 49325.00 | 75193.00  | 124518.00 |
| Item No. 7 Providing second class Burnt Brick masonry with conventional/ I.S.type bricks in cement mortar 1:6 in foundations and plinth of innerwalls/ in plinth external walls including baling out water manually, striking joints on unexposed faces, raking out joints on exposed faces and water ing etc. Complete. It.no.27.01 P.no.210   | cum | 8.12  | 8509.64  | 1588.00  | 6921.64  | 12892.00 | 56191.00  | 69083.00  |
| Item No. 8 Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20cm including water ing and compacting etc. complete. It.No.21.37 P.No.157  | cum | 65.36 | 1006.68  | 135.00   | 871.68   | 8824.00  | 56976.00  | 65800.00  |
| Item No. 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 centering, formwork, cover blocks, laying/ pumping, compacting 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 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 natural sand/ V.S.I. quality Artificial itno.25.70 p.no.188 | cum | 12.15 | 14510.79 | 5988.00  | 8522.79  | 72758.00 | 103558.00 | 176316.00 |
| Item No. 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 centering, formwork, cover blocks compacting, curing, finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer ) etc. complete. With natural sand/V.S.I. quality Artificial Sand It.No.26.05 P.No.193   | cum | 0.16  | 14790.91 | 5988.00  | 8802.91  | 970.00   | 1426.00   | 2396.00   |
| Item No.11 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, arches, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. Itno.26.33 p.no.197   | MT  | 2.96  | 90051.11 | 11762.00 | 78289.11 | 34829.00 | 231823.00 | 266652.00 |
| Item No. 12 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, water ing and scaffolding etc. Complete. It.No.27.05 P.no.210   | cum | 21.83 | 8748.64  | 1705.00  | 7043.64  | 37226.00 | 153785.00 | 191011.00 |

|   |     |        |           |         |           |          |          |           |
|---|-----|--------|-----------|---------|-----------|----------|----------|-----------|
| Item No.13 Providing and fixing frame with / without ventilator of size as specified with Country non teak wood for doors and windowsincluding chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete It.No.39.02 P.No.260   | cum | 0.08   | 107112.00 | 135.00  | 106977.00 | 11.00    | 8421.00  | 8432.00   |
| Item No. 14 Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. It.No.39.09 P.No.261  | sqm | 3.48   | 3079.00   | 741.00  | 2338.00   | 2582.00  | 8147.00  | 10729.00  |
| Item No. 15 Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, polishing, rounding edges, cleaning complete. b) Granitelt.No.33.22 P.No.268   | sqm | 5.80   | 3886.00   | 336.00  | 3550.00   | 1947.00  | 20576.00 | 22523.00  |
| Item No. 16 Providing and fixing in position (as per 1868 / 1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window rame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 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 and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge ,complete. With colour Anodising with box It.No.39.41 P.No.269 | sqm | 6.48   | 5502.00   | 1415.00 | 4087.00   | 9169.00  | 26484.00 | 35653.00  |
| Item No. 17 Providing and fixing mild steel grill work for windows, ventilators, etc. 15 kg/sqm as per drawing including fixtures necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete.It.No.40.02 P.No.159   | sqm | 6.48   | 1707.00   | 316.00  | 1391.00   | 2048.00  | 9014.00  | 11062.00  |
| Item No. 18 Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete.It.No.33.41 P.No.159   | sqm | 86.40  | 1252.00   | 352.00  | 900.00    | 30413.00 | 77760.00 | 108173.00 |
| Item No. 19 Providing internal cement plaster 12mm thick in single coat in cement mor tar 1:5 wi thout neeru finish to concrete or br ick sur faces, in all posi t ions including scaffolding and cur ing etc. complete.It.No.32.03 P.No.221  | sqm | 218.28 | 281.24    | 204.00  | 77.24     | 44529.00 | 16861.00 | 61390.00  |

|  |     |        |              |        |        |                  |                   |                   |
|--|-----|--------|--------------|--------|--------|------------------|-------------------|-------------------|
| Item No. 20 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.It.No.32.11 P.No.269 | sqm | 162.80 | 660.53       | 412.00 | 248.53 | 67074.00         | 40461.00          | 107535.00         |
| Item No.21 Providing and applying washeble oil- bound distemper of approved colour spec.no. Bd.p.5 Page no. 413 ( page no. 244 it no.36.11   | sqm | 218.28 | 48.00        | 18.00  | 30.00  | 3929.00          | 6548.00           | 10477.00          |
| Item No.22 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.Page no.287 It No.35.15   | sqm | 162.80 | 104.00       | 67.00  | 37.00  | 10908.00         | 6024.00           | 16932.00          |
| <b>Total Work Portion</b>  |     |        |              |        |        | <b>480837.00</b> | <b>1087565.00</b> | <b>1568402.00</b> |
| Item No.23 Testing Charges   |     |        |              |        |        |                  |                   |                   |
| A) Compressive Strenght Of CC Cube   | Nos | 2.00   | 690.00       |        |        |                  | 1380.00           | 1380.00           |
| Item No.24 Royalty Charges   | cum |        |              |        |        |                  |                   |                   |
| A) For sand = Royalty + surcharge (2%) + Distt. Mineral Foundation Cess (10%)= 211.95+4.23+21.19 = 237.37 Per Cum  |     | 41.79  | 237.37       |        |        |                  | 9920.00           | 9920.00           |
| B) For All Other Minerals = Royalty + surcharge (2%) = 211.95+4.23 = 216.18 per cum  |     | 65.36  | 216.18       |        |        |                  | 14130.00          | 14130.00          |
| Item No.25 GST   | 12% |        |              |        |        |                  | 130508.00         | 130508.00         |
| Item No.26 Add Labour Insurance  | 1%  |        |              |        |        | 4808.00          | 10876.00          | 15684.00          |
|  |     |        | <b>Total</b> |        |        | <b>485645.00</b> | <b>1254379.00</b> | <b>1740024.00</b> |

Part A) Labour Cost For MGNREGA Rs

485,645.00 Unskilled 31.38 31%

Part B) Material Cost For MGNREGA Rs.

1,062,099.00 Skilled 68.62 69%

Total

1,547,744.00

Part C) Material Cost For 15 Th F.C ( G.P )

192,279.00

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of ZP Primary School Two Room At \_\_\_\_\_ Tq.Ashti Dist.Beed.

Under ( M.G.N.R.E.G.A. 2022-23 )

**Abstract (PART- B)**

| DESCRIPTION  | unit | Qty.  | Total Rate | Rate      |         | Total     |          | Total Amount |
|--|------|-------|------------|-----------|---------|-----------|----------|--------------|
|  |      |       |            | Unskilled | Skilled | Unskilled | Skilled  |              |
| Item No. 1 Excavation for foundation in earth. Soils of all types including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.02 P.No.153   | cum  | 33.62 | 207.00     | -         | -       | -         | -        | -            |
| Item No. 2 Excavation for foundation in Hard Murum including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.06 P.No.153  | cum  | 20.25 | 227.00     | -         | -       | -         | -        | -            |
| Item No. 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, 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 natural sand/ V.S.I. quality Artificial Sand  | cum  | 14.42 | 6400.48    | 1616.00   | 4784.48 | 69004.00  | 69004.00 | 69004.00     |
| Item No. 4 Providing and laying in situ/ ready mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, laying/ pumping cover blocks, compacting 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 | cum  | 11.21 | 7671.79    | 2110.00   | 5561.79 | 62320.00  | 62320.00 | 62320.00     |

|  |     |       |          |         |         |  |           |           |
|--|-----|-------|----------|---------|---------|--|-----------|-----------|
| Item No. 5 Providing and laying Cast in situ/ Ready mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks, laying/ pumping, compact ion 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 natural sand / V.S.I | cum | 6.26  | 14350.79 | 5252.00 | 9098.79 |  | 56993.00  | 56993.00  |
| Item No. 6 Providing and laying Cast in situ/ Ready mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including centering, formwork, cover blocks, laying/ pumping, compact ion and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand / V.S.I   | cum | 9.70  | 12836.79 | 5085.00 | 7751.79 |  | 75193.00  | 75193.00  |
| Item No. 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 baling out water manually, striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete. It.no.27.01 P.no.210  | cum | 8.12  | 8509.64  | 1588.00 | 6921.64 |  | 56191.00  | 56191.00  |
| Item No. 8 Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer incharge in layers of 15 cm to 20cm including watering and compact ion etc. complete.It.No.21.37 P.No.157   | cum | 65.36 | 1006.68  | 135.00  | 871.68  |  | 56976.00  | 56976.00  |
| Item No. 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 centering, formwork, cover blocks, laying/ pmping, compact ion 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 complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer /  | cum | 12.15 | 14510.79 | 5988.00 | 8522.79 |  | 103558.00 | 103558.00 |

|   |     |       |           |          |           |  |           |           |
|---|-----|-------|-----------|----------|-----------|--|-----------|-----------|
| Item No. 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 centering, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand /VSL quality Artificial Sand | cum | 0.16  | 14790.91  | 5988.00  | 8802.91   |  | 1426.00   | 1426.00   |
| Item No.11 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.Itno.26.33 p.no.197   | MT  | 2.96  | 90051.11  | 11762.00 | 78289.11  |  | 231823.00 | 231823.00 |
| Item No. 12 Providing second class Burnt Br ick masonry with convent ional/ I.S. type br icks in cement mortar 1:6 in superstructure including striking joints, raking out joints, water ing and scaffolding etc. Complete.It.No27.05 P.no.210  | cum | 21.83 | 8748.64   | 1705.00  | 7043.64   |  | 153785.00 | 153785.00 |
| Item No.13 Providing and fixing frame with / without ventilator of size as specified with Country non teak wood for doors and windowsincluding chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete It.No.39.02 P.No.260   | cum | 0.08  | 107112.00 | 135.00   | 106977.00 |  | 8421.00   | 8421.00   |
| Item No. 14 Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. It.No.39.09 P.No.261  | sqm | 3.48  | 3079.00   | 741.00   | 2338.00   |  | 8147.00   | 8147.00   |
| Item No. 15 Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, polishing, rounding edges, cleaning complete. b) Granitelt.No.33.22 P.No.268   | sqm | 5.80  | 3886.00   | 336.00   | 3550.00   |  | 20576.00  | 20576.00  |

|   |     |        |         |         |         |  |          |          |
|---|-----|--------|---------|---------|---------|--|----------|----------|
| Item No. 16 Providing and fixing in position (as per 1868 / 1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window rame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 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 and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings | sqm | 6.48   | 5502.00 | 1415.00 | 4087.00 |  | 26484.00 | 26484.00 |
| Item No. 17 Providing and fixing mild steel grill work for windows, ventilators, etc. 15 kg/sqm as per drawing including fixtures necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete.It.No.40.02 P.No.159   | sqm | 6.48   | 1707.00 | 316.00  | 1391.00 |  | 9014.00  | 9014.00  |
| Item No. 18 Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete.It.No.33.41 P.No.159   | sqm | 86.40  | 1252.00 | 352.00  | 900.00  |  | 0.00     | 0.00     |
| Item No. 19 Providing internal cement plaster 12mm thick in single coat in cement mor tar 1:5 wi thout neeru finish to concrete or br ick sur faces, in all posi t ions including scaffolding and cur ing etc. complete.It.No.32.03 P.No.221  | sqm | 218.28 | 281.24  | 204.00  | 77.24   |  | 0.00     | 0.00     |
| Item No. 20 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.It.No.32.11 P.No.269  | sqm | 162.80 | 660.53  | 412.00  | 248.53  |  | 0.00     | 0.00     |
| Item No.21 Providing and applying washeble oil- bound distemper of approved colour spec.no. Bd.p.5 Page no. 413 ( page no. 244 it no.36.11  | sqm | 218.28 | 48.00   | 18.00   | 30.00   |  | 0.00     | 0.00     |

|   |      |        |              |       |       |  |                   |                   |
|---|------|--------|--------------|-------|-------|--|-------------------|-------------------|
| Item No.22 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. Page no.287 It No.35.15 | sqm  | 162.80 | 104.00       | 67.00 | 37.00 |  | 0.00              | 0.00              |
| <b>Total Work Portion</b>   |      |        |              |       |       |  | <b>939911.00</b>  | <b>939911.00</b>  |
| Item No.23 Testing Charges  |      |        |              |       |       |  |                   |                   |
| A) Compressive Strenght Of CC Cube  |      |        |              |       |       |  |                   |                   |
| Item No.24 Royalty Charges  |      |        |              |       |       |  |                   |                   |
| A) For sand = Royalty + surcharge (2%) + Distt. Mineral Foundation Cess (10%)= 211.95+4.23+21.19 = 237.37 Per   |      |        |              |       |       |  |                   |                   |
| B) For All Other Minerals = Royalty + surcharge (2%) = 211.95+4.23 = 216.18 per cum   |      |        |              |       |       |  |                   |                   |
| Item No.25 GST  | 12%  |        |              |       |       |  | 112789.00         | 112789.00         |
| Item No.26 Add Labour Insurance   | 1%   |        |              |       |       |  | 9399.00           | 9399.00           |
| 0.00  | 0.00 |        | <b>Total</b> |       |       |  | <b>1062099.00</b> | <b>1062099.00</b> |

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of ZP Primary School Two Room At \_\_\_\_\_ Tq.Ashti Dist.Beed.

Under ( M.G.N.R.E.G.A. 2022-23 )

**Abstract (PART- C)**

| DESCRIPTION  | unit | Qty.   | Total Rate | Rate      |         | Total     |                  | Total Amount     |
|--|------|--------|------------|-----------|---------|-----------|------------------|------------------|
|  |      |        |            | Unskilled | Skilled | Unskilled | Skilled          |                  |
| Item No. 18 Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and conforming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete.It.No.33.41 P.No.159  | sqm  | 86.40  | 1252.00    | 352.00    | 900.00  |           | 77760.00         | 77760.00         |
| Item No. 19 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.It.No.32.03 P.No.221  | sqm  | 218.28 | 281.24     | 204.00    | 77.24   |           | 16861.00         | 16861.00         |
| Item No. 20 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.It.No.32.11 P.No.269 | sqm  | 162.80 | 660.53     | 412.00    | 248.53  |           | 40461.00         | 40461.00         |
| Item No.21 Providing and applying washable oil- bound distemper of approved colour spec.no. Bd.p.5 Page no. 413 ( page no. 244 it no.36.11   | sqm  | 218.28 | 48.00      | 18.00     | 30.00   |           | 6548.00          | 6548.00          |
| Item No.22 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.Page no.287 It No.35.15   | sqm  | 162.80 | 104.00     | 67.00     | 37.00   |           | 6024.00          | 6024.00          |
| <b>Total Work Portion</b>  |      |        |            |           |         |           | <b>147654.00</b> | <b>147654.00</b> |

|   |     |       |              |  |  |  |                  |                  |
|---|-----|-------|--------------|--|--|--|------------------|------------------|
| Item No.23 Testing Charges  |     |       |              |  |  |  |                  |                  |
| A) Compressive Strenght Of CC Cube  | Nos | 2.00  | 690.00       |  |  |  | 1380.00          | 1380.00          |
| Item No.24 Royalty Charges  | cum |       |              |  |  |  |                  |                  |
| A) For sand = Royalty + surcharge (2%) + Distt. Mineral Foundation Cess (10%)= 211.95+4.23+21.19 = 237.37 Per Cum |     | 41.79 | 237.37       |  |  |  | 9920.00          | 9920.00          |
| B) For All Other Minerals = Royalty + surcharge (2%) = 211.95+4.23 = 216.18 per cum                               |     | 65.36 | 216.18       |  |  |  | 14130.00         | 14130.00         |
| Item No.25 GST  | 12% |       |              |  |  |  | 17718.00         | 17718.00         |
| Item No.26 Add Labour Insurance   | 1%  |       |              |  |  |  | 1477.00          | 1477.00          |
|   |     |       | <b>Total</b> |  |  |  | <b>192279.00</b> | <b>192279.00</b> |

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

## Under ( M.G.N.R.E.G.A. 2022-23 )

MEASUREMENT

**Item No. 1** Excavation for foundation in earth. Soils of all types including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.02 P.No.153

|                           |    |   |      |   |      |   |      |   |                  |
|---------------------------|----|---|------|---|------|---|------|---|------------------|
| <b>For column footing</b> | 15 | X | 1.50 | X | 1.50 | X | 0.90 | = | 30.38            |
| <b>Step</b>               | 2  | X | 1.20 | X | 1.50 | X | 0.60 | = | 2.16             |
| <b>Ramp</b>               | 1  | x | 1.20 | x | 1.50 | x | 0.60 | = | 1.08             |
|                           |    |   |      |   |      |   |      |   | <u>33.62 Cum</u> |

**Item No. 2** Excavation for foundation in Hard Murum including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.06 P.No.153

|                           |    |   |      |   |      |   |      |   |                  |
|---------------------------|----|---|------|---|------|---|------|---|------------------|
| <b>For column footing</b> | 15 | X | 1.50 | X | 1.50 | X | 0.60 | = | 20.25            |
|                           |    |   |      |   |      |   |      |   | <u>20.25 cum</u> |

**Item No. 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 baling out water, 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 natural sand/ V.S.I. quality Artificial Sand It.No.24.01 P.No.176

|                           |    |   |      |   |      |   |       |   |      |
|---------------------------|----|---|------|---|------|---|-------|---|------|
| <b>For column footing</b> | 15 | X | 1.50 | X | 1.50 | X | 0.150 | = | 5.06 |
| <b>Below Flooring</b>     | 2  | X | 6.00 | X | 4.80 | X | 0.100 | = | 5.76 |
| <b>Varanda</b>            | 2  | X | 6.00 | X | 2.40 | X | 0.100 | = | 2.88 |
| <b>Step</b>               | 2  | X | 1.20 | X | 1.50 | X | 0.100 | = | 0.36 |
| <b>Ramp</b>               | 1  | x | 1.20 | x | 1.50 | x | 0.100 | = | 0.18 |
| <b>Above Ramp</b>         | 1  | x | 1.20 | x | 1.50 | x | 0.100 | = | 0.18 |

Quantity

14.42 Cum

**Item No. 4** Providing and laying in situ/ Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including baling out water, formwork, laying/ pumping cover blocks, compacting 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 natural sand/ V.S.I. quality Artificial Sand It.No.25.11 P.No.180

Foundation

|              |    |   |      |   |      |   |      |   |                  |
|--------------|----|---|------|---|------|---|------|---|------------------|
| <b>Step1</b> | 15 | x | 1.20 | x | 1.20 | x | 0.35 | = | 7.56             |
| <b>Step2</b> | 15 | x | 0.90 | x | 0.90 | x | 0.30 | = | 3.65             |
|              |    |   |      |   |      |   |      |   | <u>Quantity</u>  |
|              |    |   |      |   |      |   |      |   | <u>11.21 Cum</u> |

**Item No. 5** Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks, laying/ pumping, compacting 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 natural sand/ V.S.I. quality Artificial Sand it no.25.31 p.no.183

|               |   |   |      |   |      |              |      |   |                 |
|---------------|---|---|------|---|------|--------------|------|---|-----------------|
| <b>Column</b> | 6 | X | 0.23 | X | 0.45 | X            | 4.45 | = | 2.76 Cum        |
|               | 9 | X | 0.23 | X | 0.38 | X            | 4.45 | = | 3.50            |
|               |   |   |      |   |      | <b>Total</b> |      | = | <u>6.26 Cum</u> |





**Item No. 16** Providing and fixing in position (as per 1868 / 1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window rame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 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 and top section 40 x 18 x 1.25 mm at weight o.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge ,complete. With colour Anodising with box It.No.39.41 P.No.269

|   |                       |   |     |   |     |   |                 |
|---|-----------------------|---|-----|---|-----|---|-----------------|
|   | <b>Sliding Window</b> |   |     |   |     |   |                 |
| W | 6                     | X | 0.9 | X | 1.2 | = | 6.48            |
|   |                       |   |     |   |     |   | <b>6.48</b> Sqm |

**Item No. 17** Providing and fixing **mild steel grill work for windows**, ventilators, etc. 15 kg/sqm as per drawing including fixtures necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete.**It.No.40.02 P.No.159**

|   |   |   |     |   |     |              |                 |
|---|---|---|-----|---|-----|--------------|-----------------|
| W | 6 | X | 0.9 | X | 1.2 | =            | 6.48            |
|   |   |   |     |   |     | <b>Total</b> | <b>6.48</b> Cum |

**Item No. 18** Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 ( group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete.**It.No.33.41 P.No.159**

|         |   |   |   |   |     |   |                  |
|---------|---|---|---|---|-----|---|------------------|
| Room    | 2 | X | 6 | X | 4.8 | = | 57.60            |
| Varanda | 2 | X | 6 | X | 2.4 | = | 28.80            |
|         |   |   |   |   |     |   | <b>86.40</b> Sqm |

**Item No. 19** Providing internal cement plaster 12mm thick in single coat in cement mor tar 1:5 wi thout neeru finish to concrete or br ick sur faces, in all posi t ions including scaffolding and cur ing etc. complete.It.No.32.03 P.No.221

**Inside**

|                 |   |   |           |   |     |   |        |
|-----------------|---|---|-----------|---|-----|---|--------|
| <b>Room</b>     | 4 | x | 6.00+4.80 | x | 3.3 | = | 142.56 |
| <b>Ceilling</b> | 2 | x | 6         | x | 4.8 | = | 57.60  |
| <b>Varanda</b>  | 2 | x | 6         | x | 2.4 | = | 28.80  |
| <b>Ceilling</b> |   |   |           |   |     |   |        |
|                 |   |   |           |   |     |   | 228.96 |

**Deduction**

|          |   |   |     |   |     |   |       |
|----------|---|---|-----|---|-----|---|-------|
| <b>D</b> | 2 | x | 1   | x | 2.1 | = | 4.2   |
| <b>W</b> | 6 | x | 0.9 | x | 1.2 | = | 6.48  |
|          |   |   |     |   |     |   | 10.68 |

**Net Qty.** **228.96** - **10.68** = **218.28** Sqm

**Item No. 20** 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.It.No.32.11 P.No.269

**Outside**

|  |   |   |       |   |      |   |                   |
|--|---|---|-------|---|------|---|-------------------|
|  | 2 | x | 12.69 | x | 4.00 | = | 101.52            |
|  | 2 | x | 7.66  | x | 4.00 | = | 61.28             |
|  |   |   |       |   |      |   | <b>162.80</b> Sqm |

**Item No.21** Providing and applying washeble oil- bound distemper of approved colour spec.no. Bd.p.5 Page no. 413 ( page no. 244 it no.36.11

**Inside**

|                            |  |  |  |  |  |   |                   |
|----------------------------|--|--|--|--|--|---|-------------------|
| <b>Qty As Per It No.21</b> |  |  |  |  |  | = | 218.28            |
|                            |  |  |  |  |  |   | <b>218.28</b> Sqm |

**Item No.22** 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.Page no.287 It No.35.15

**OutSide**  
**Qty.As Per It.No.22**

**162.80** sqm

**Item No.23 Testing Charges**

A) Compressive Strenght Of CC Cube

= 

|      |
|------|
| 2.00 |
|------|

 Nos

**Item No.24 Royalty Charges**

For Above 40 mm metal  
Sand  
Murum

= 0.00  
= 41.79  
= 65.36

|        |
|--------|
| 107.15 |
|--------|

 cum

**Item No.25 GST**

= 

|     |
|-----|
| 12% |
|-----|

**Item No.26 Add Labour Insurance**

= 

|    |
|----|
| 1% |
|----|

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of ZP Primary School Two Room At \_\_\_\_\_ Tq.Ashti Dist.Beed.

Under ( M.G.N.R.E.G.A. 2022-23 )

**RATE ANALYSIS**

**Item No.1**

Providing and laying Cast in situ/ Ready Mix **cement concrete in M-10** of trap/ granite/ quartzite/ gneiss metal **for foundation and bedding** including baling out water, 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 natural sand/ V.S.I. quality Artificial Sand **It.No.24.01 P.No.226**

**As per DSR Rate 2022-23**

**5830.00**

|                                  |      |   |        |          |
|----------------------------------|------|---|--------|----------|
| Deduct for Non SCADA             |      |   | =      | 120.00   |
| Add lead charges for cement      | 0.22 | x | 348.11 | = 76.58  |
| Add lead charges for sand        | 0.47 | x | 410.55 | = 192.96 |
| Add Diff.Cost for sand           | 0.47 | x | 110.00 | = 51.70  |
| Add lead charges for 40mm metal  | 0.70 | x | 393.44 | = 275.41 |
| Deduct Diff.Cost For 40 mm metal | 0.70 | x | 5.00   | = 3.50   |
| Add lead charges for 20mm metal  | 0.24 | x | 410.55 | = 98.53  |
| Deduct Diff.Cost for 20mm metal  | 0.24 | x | 5.00   | = 1.20   |

**6400.48** Cum

**Item No.2**

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.**It.No27.05 P.no.254**

**As per DSR Rate 2022-23**

**7994.00 cum**

|                                      |       |   |        |          |
|--------------------------------------|-------|---|--------|----------|
| Add lead charges for cement          | 0.079 | x | 348.11 | = 27.50  |
| Add lead charges for sand            | 0.32  | x | 410.55 | = 131.38 |
| Add Diff.Cost for sand               | 0.32  | x | 110.00 | = 35.20  |
| Add lead charges for Brick For 1 Cum | 1.00  | x | 560.56 | = 560.56 |

**8748.64** cum

**Item No.3**

Providing and laying in situ/ Ready Mix **cement concrete M-20** of trap/ granite/ quartzite/ gneiss metal **for R.C.C. work in foundations like raft**, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including baling out water, formwork, laying/ pumping cover blocks, compacting 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 natural sand/ V.S.I. quality Artificial Sand **It.No.25.11 P.No.230**

**As per DSR Rate 2022-23**

**7104.00**

|                             |       |   |        |          |
|-----------------------------|-------|---|--------|----------|
| Deduct for Non SCADA        |       |   | =      | 120.00   |
| Add lead charges for cement | 0.35  | x | 348.11 | = 121.84 |
| Add lead charges for sand   | 0.425 | x | 410.55 | = 174.48 |

|                                    |       |   |        |   |                    |
|------------------------------------|-------|---|--------|---|--------------------|
| Add Diff.Cost for sand             | 0.425 | x | 110.00 | = | 46.75              |
| Add lead charges for 20mm metal    | 0.57  | x | 410.55 | = | 234.01             |
| Deduct Diff.Cost for 20mm metal    | 0.57  | x | 5.00   | = | 2.85               |
| Add lead charges for 10/12mm metal | 0.28  | x | 410.55 | = | 114.95             |
| Deduct Diff.Cost for 20mm metal    | 0.28  | x | 5.00   | = | 1.40               |
|                                    |       |   |        |   | <b>7671.79</b> Cum |

#### **Item No.4**

Providing and laying Cast in situ/ Ready Mix **cement concrete M-20** of trap / granite / quartzite/ gneiss metal **for R.C.C. columns** as per detailed designs and drawing or as directed including centering, formwork, cover blocks, laying/ pumping, compacting 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 natural sand/ V.S.I. quality Artificial Sand **it no.25.31 p.no.232**

|                                    |       |   |        |   |                     |
|------------------------------------|-------|---|--------|---|---------------------|
| <b>As per DSR Rate 2022-23</b>     |       |   |        |   | <b>13783.00</b>     |
| Deduct for Non SCADA               |       |   |        | = | 120.00              |
| Add lead charges for cement        | 0.35  | x | 348.11 | = | 121.84              |
| Add lead charges for sand          | 0.425 | x | 410.55 | = | 174.48              |
| Add Diff.Cost for sand             | 0.425 | x | 110.00 | = | 46.75               |
| Add lead charges for 20mm metal    | 0.57  | x | 410.55 | = | 234.01              |
| Deduct Diff.Cost for 20mm metal    | 0.57  | x | 5.00   | = | 2.85                |
| Add lead charges for 10/12mm metal | 0.28  | x | 410.55 | = | 114.95              |
| Deduct Diff.Cost for 10/12mm metal | 0.28  | x | 5.00   | = | 1.40                |
|                                    |       |   |        |   | <b>14350.79</b> Cum |

#### **Item No.5**

Providing and laying Cast in situ/ Ready Mix **cement concrete M-20** of trap / granite / quartzite/ gneiss metal **for R.C.C. beams and lintels** as per detailed designs and drawings or as directed including centering, formwork, cover blocks, laying/ pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. With natural sand/ V.S.I. quality Artificial Sand **( I.NO.25.50 , P.NO.234 )**

|                                    |       |   |        |   |                     |
|------------------------------------|-------|---|--------|---|---------------------|
| <b>As per DSR Rate 2022-23</b>     |       |   |        |   | <b>12269.00</b>     |
| Deduct for Non SCADA               |       |   |        | = | 120.00              |
| Add lead charges for cement        | 0.35  | x | 348.11 | = | 121.84              |
| Add lead charges for sand          | 0.425 | x | 410.55 | = | 174.48              |
| Add Diff.Cost for sand             | 0.425 | x | 110.00 | = | 46.75               |
| Add lead charges for 20mm metal    | 0.57  | x | 410.55 | = | 234.01              |
| Deduct Diff.Cost for 20mm metal    | 0.57  | x | 5.00   | = | 2.85                |
| Add lead charges for 10/12mm metal | 0.28  | x | 410.55 | = | 114.95              |
| Deduct Diff.Cost for 10/12mm metal | 0.28  | x | 5.00   | = | 1.40                |
|                                    |       |   |        |   | <b>12836.79</b> Cum |

### Item No.6

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 centering, formwork, cover blocks, laying/ pumping, compacting 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 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 natural sand/ V.S.I. quality Artificial **itno.25.70 p.no.236**

|                                    |       |   |        |                     |
|------------------------------------|-------|---|--------|---------------------|
| <b>As per DSR Rate 2022-23</b>     |       |   |        | <b>13943.00</b>     |
| Deduct for Non SCADA               |       |   | =      | 120.00              |
| Add lead charges for cement        | 0.35  | x | 348.11 | = 121.84            |
| Add lead charges for sand          | 0.425 | x | 410.55 | = 174.48            |
| Add Diff.Cost for sand             | 0.425 | x | 110.00 | = 46.75             |
| Add lead charges for 20mm metal    | 0.57  | x | 410.55 | = 234.01            |
| Deduct Diff.Cost for 20mm metal    | 0.57  | x | 5.00   | = 2.85              |
| Add lead charges for 10/12mm metal | 0.28  | x | 410.55 | = 114.95            |
| Deduct Diff.Cost for 10/12mm metal | 0.28  | x | 5.00   | = 1.40              |
|                                    |       |   |        | <b>14510.79</b> Cum |

### Item No.7

Providing and laying Cast in situ/Ready Mix cement concrete **M- 20** of trap/ granite/ quartzite/ gneiss metal **for R.C.C. chajja** as per detailed design and drawings including centering, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand **It.No.26.05 P.No.193**

|                                    |       |   |        |                     |
|------------------------------------|-------|---|--------|---------------------|
| <b>As per DSR Rate 2022-23</b>     |       |   |        | <b>13932.00</b>     |
| Deduct for Non SCADA               |       |   | =      | 120.00              |
| Add lead charges for cement        | 0.35  | x | 348.11 | = 121.84            |
| Add lead charges for sand          | 0.425 | x | 410.55 | = 174.48            |
| Add Diff.Cost for sand             | 0.425 | x | 775.00 | = 329.38            |
| Add lead charges for 20mm metal    | 0.57  | x | 410.55 | = 234.01            |
| Deduct Diff.Cost for 20mm metal    | 0.57  | x | 5.00   | = 2.85              |
| Add lead charges for 10/12mm metal | 0.28  | x | 410.55 | = 114.95            |
| Deduct Diff.Cost for 10/12mm metal | 0.28  | x | 5.00   | = 1.40              |
|                                    |       |   |        | <b>14790.91</b> Cum |

### Item No.8

Providing **second class Burnt Brick masonry** with conventional/ I.S.type bricks in cement mortar **1:6 in foundations and plinth of innerwalls/ in plinth external walls** including baling out water manually ,striking joints on unexposed faces, raking out joints on exposed faces and water ing etc. Complete. **It.no.27.01 P.no.254**

|                                |                |
|--------------------------------|----------------|
| <b>As per DSR Rate 2022-23</b> | <b>7755.00</b> |
|--------------------------------|----------------|

|                                      |       |   |        |   |                    |
|--------------------------------------|-------|---|--------|---|--------------------|
| Add lead charges for cement          | 0.079 | x | 348.11 | = | 27.50              |
| Add lead charges for sand            | 0.32  | x | 410.55 | = | 131.38             |
| Add Diff.Cost for sand               | 0.32  | x | 110.00 | = | 35.20              |
| Add lead charges for Brick for 1 cum | 1.00  | x | 560.56 | = | 560.56             |
|                                      |       |   |        |   | <b>8509.64</b> Cum |

**Item No.9**

Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. **It.no.26.33 p.no.245**

|                                |      |   |        |   |                     |
|--------------------------------|------|---|--------|---|---------------------|
| <b>As per DSR Rate 2022-23</b> |      |   |        |   | <b>89703.00</b>     |
| Add lead charges for steel     | 1.00 | x | 348.11 | = | 348.11              |
|                                |      |   |        |   | <b>90051.11</b> Cum |

**Item No.10**

Filling in plinth and floors with compactors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20cm including watering and compaction etc. complete. **It.No.21.37 P.No.201**

|                                |      |   |        |   |                    |
|--------------------------------|------|---|--------|---|--------------------|
| <b>As per DSR Rate 2022-23</b> |      |   |        |   | <b>795.00</b>      |
| Add lead charges for murum     | 1.00 | x | 211.68 | = | 211.68             |
|                                |      |   |        |   | <b>1006.68</b> Cum |

**Item No.11**

Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and complete. **It.No.32.03 .No.221**

|                                |       |   |        |   |                   |
|--------------------------------|-------|---|--------|---|-------------------|
| <b>As per DSR Rate 2022-23</b> |       |   |        |   | <b>271.00</b>     |
| Add lead charges for cement    | 0.007 | x | 348.11 | = | 2.44              |
| Add lead charges for sand      | 0.015 | x | 410.55 | = | 6.16              |
| Add Diff.Cost for sand         | 0.015 | x | 110.00 | = | 1.65              |
|                                |       |   |        |   | <b>281.24</b> Cum |

**Item No.12**

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.It.No.32.11 P.No.269

**As per DSR Rate 2022-23**

|                             |        |   |        |   |               |     |
|-----------------------------|--------|---|--------|---|---------------|-----|
|                             |        |   |        |   | <b>639.00</b> |     |
| Add lead charges for cement | 0.0125 | x | 348.11 | = | 4.35          |     |
| Add lead charges for sand   | 0.033  | x | 410.55 | = | 13.55         |     |
| Add Diff.Cost for sand      | 0.033  | x | 110.00 | = | 3.63          |     |
|                             |        |   |        |   | <b>660.53</b> | Cum |

**Item No.14** Providing **soling using 80 mm size t rap metal in 15 cm.** layer including fi lling voids wi th Crushed sand/ gr i t , ramming, water ing etc. complete.It.No.21.40 P.No.201

**As per DSR Rate 2021-22**

|                        |      |   |        |   |                |             |
|------------------------|------|---|--------|---|----------------|-------------|
|                        |      |   |        |   | <b>1454.00</b> | <b>Cum.</b> |
| Add lead for Metal     | 1.00 | x | 393.44 | = | 393.44         |             |
| Add lead for Sand      | 0.15 | x | 410.55 | = | 61.58          |             |
| Add Diff.Cost For Sand | 0.15 | x | 110.00 | = | 16.50          |             |
|                        |      |   |        |   | <b>1925.53</b> | Cum.        |

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of ZP Primary School Two Room At \_\_\_\_\_  
Tq.Ashti Dist.Beed.  
Under ( M.G.N.R.E.G.A. 2022-23 )

**Lead Chart**

| Sr.No | Material           | Quarry | Lead in Kms | Lead Charges | Pay Load Factor | Net Lead Charges |
|-------|--------------------|--------|-------------|--------------|-----------------|------------------|
| 1     | 40mm & 60 mm Metal | -----  | 15          | 2360.66      | 6.00            | 393.44           |
| 2     | Metal Below 40mm   | -----  | 15          | 2360.66      | 5.75            | 410.55           |
| 3     | Sand               | -----  | 15          | 2360.66      | 5.75            | 410.55           |
| 4     | Cement             | -----  | 20          | 3481.08      | 10.00           | 348.11           |
| 4     | Brick              | -----  | 20          | 3481.08      | 3.105           | 1121.12          |
| 5     | Steel              | -----  | 20          | 3481.08      | 10.00           | 348.11           |
| 6     | Murum              | -----  | 2.5         | 1270.05      | 6.00            | 211.68           |

**CERTIFICATE**

- 1 Certified that no construction material is available at lasser distance than above shown leads.
- 2 Certified that good quality and sufficient quanity material available in shown quarry.
- 3 Certified that the distances shown above are verified by me and found correct.

**प्रमाणपत्र**

प्रमाणित करण्यात येते कि, अंदाजपत्रकात प्रस्तावित करण्यात आलेले काम इतर कोणत्याही योजनेतून झालेले नाही किंवा प्रस्तावित करण्यात आलेले नाही.

करिता प्रमाणपत्र देण्यात येत आहे.

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of ZP Primary School Two Room At \_\_\_\_\_ Tq.Ashti Dist.Beed.

Under ( M.G.N.R.E.G.A. 2022-23 )

**Material Requirement As per THEROTICAL CONSUMPTION**

| Sr.no. | DESCRIPTION   | As per Estimate |      |        | Cement              |                     | Metal                                   |                        |  |                          | Sand                |             | Steel   |      | Murum               |              | Brick               |                    | Unit |
|--------|---|-----------------|------|--------|---------------------|---------------------|---|------------------------|--|--------------------------|---------------------|-------------|---------|------|---------------------|--------------|---------------------|--------------------|------|
|        |   | Qty             | Rate | Amount | Rate of Consumption | Total cement in bag | Rate of consumption in below 40mm stone | Total below 40mm stone | Rate of consumption in 40 mm & above stone | Total 40mm & above stone | Rate of consumption | Sand in cum | H.Y.S.D | Mild | Rate of consumption | Murum in cum | Rate of consumption | Total Brick in No. |      |
| 1      | 2   | 3               | 4    | 5      | 6                   | 7                   | 8                                       | 9                      | 10   | 11                       | 12                  | 13          |         |      |                     |              |                     |                    | 14   |
| 1      | 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, 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 natural sand/ V.S.I. quality Artificial Sand It No.24.01 P.No.176                  | 14.42           |      |        | 4.40                | 63.46               | 0.24                                    | 3.46                   | 0.70                                       | 10.10                    | 0.47                | 6.77858     |         |      |                     |              |                     |                    |      |
| 2      | Providing and laying in situ/ Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, laying/ pumping cover blocks, compacting 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 / | 11.21           | -    |        | 7.00                | 78.44               | 0.85                                    | 9.52                   |  |                          | 0.425               | 4.76213     |         |      |                     |              |                     |                    |      |

|   |   |       |  |  |      |              |      |              |  |  |       |                |  |  |  |  |  |  |
|---|---|-------|--|--|------|--------------|------|--------------|--|--|-------|----------------|--|--|--|--|--|--|
| 3 | Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks, laying/ pumping, compact ion 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 | 6.26  |  |  | 7.00 | <b>43.85</b> | 0.85 | <b>5.32</b>  |  |  | 0.425 | <b>2.66212</b> |  |  |  |  |  |  |
| 4 | Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including centering,formwork, cover blocks, laying/ pumping, compact ion and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch                                 | 9.70  |  |  | 7.00 | <b>67.9</b>  | 0.85 | <b>8.25</b>  |  |  | 0.425 | <b>4.12253</b> |  |  |  |  |  |  |
| 5 | 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 centering, formwork,cover blocks, laying/ pumping, compact ion finishing the formed surfaces with   | 12.15 |  |  | 7.00 | <b>85.05</b> | 0.85 | <b>10.33</b> |  |  | 0.425 | <b>5.16404</b> |  |  |  |  |  |  |
|   | Item No. 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 centering, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is   | 0.16  |  |  | 7.00 | <b>1.134</b> | 0.85 | <b>0.14</b>  |  |  | 0.425 | <b>0.06885</b> |  |  |  |  |  |  |
| 6 | Item No.11 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, copings, fins, arches etc. as per detailed designs, drawings and schedules. including   | 2.96  |  |  |      |              |      |              |  |  |       | <b>2.96</b>    |  |  |  |  |  |  |

|    |  |        |  |  |               |              |              |  |             |       |                |             |             |          |              |  |             |             |
|----|--|--------|--|--|---------------|--------------|--------------|--|-------------|-------|----------------|-------------|-------------|----------|--------------|--|-------------|-------------|
| 8  | Item No. 7 Providing second class Burnt Brick masonry with conventional/ I.S.type bricks in cement mortar 1:6 in foundations and plinth of innerwalls/ in plinth external walls including baling out water manually, striking joints on unexposed faces, raking out joints on exposed faces and water ing etc. | 8.12   |  |  | 1.58          | <b>12.83</b> |              |  |             | 0.32  | <b>2.59783</b> |             |             |          |              |  | <b>475</b>  | <b>3856</b> |
| 10 | Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer incharge in layers of 15 cm to 20cm including water ing and compact ion etc. complete.It.No.21.37 P.No.157   | 65.36  |  |  |               |              |              |  |             |       |                |             |             | <b>1</b> | <b>65.36</b> |  |             |             |
| 11 | Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.It.No.32.03 P.No.221  | 218.28 |  |  | 0.14          | <b>30.56</b> |              |  |             | 0.015 | <b>3.2742</b>  |             |             |          |              |  |             |             |
| 12 | Item No. 12 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, water ing and scaffolding etc. Complete.It.No.27.05 P.no.210   | 21.83  |  |  | 1.58          | <b>34.5</b>  |              |  |             | 0.32  | <b>6.98663</b> |             |             |          |              |  |             |             |
| 13 | Item No. 20 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  | 162.80 |  |  | 0.25          | <b>40.7</b>  |              |  |             | 0.033 | <b>5.3724</b>  |             |             |          |              |  |             |             |
|    |  |        |  |  | <b>458.4</b>  |              | <b>37.02</b> |  | <b>0.00</b> |       | <b>41.7893</b> | <b>2.96</b> | <b>0.00</b> |          | <b>65.36</b> |  | <b>3856</b> |             |
|    |  |        |  |  | <b>22.921</b> |              |              |  |             |       |                |             |             |          |              |  |             |             |

Deputy Engineer  
Z.P. (Work) Sub div.Ashti