

ESTIMATE FOR WORK OF

**CONSTRUCTION OF SHED FOR
THE DALMIL, CLEANING ,
GRADING AND PACKING AT
GHAZIPUR, GUT NO 1, TALUKA
PAITHAN DIST AURANGABAD.**

Name of Work :- CONSTRUCTION OF SHED FOR THE DALMIL, CLEANING , GRADING AND PACKING AT GHAZIPUR, GUT NO 1, TALUKA PAITHAN DIST AURANGABAD.

Recapitulation Sheet

| Sr.No | Particulars | Amount |
|--------------|--|-------------------|
| 1 | Cost of Work Portion | 6931849 |
| | Total for Work Portion (A) | 6931849 |
| 2 | Add for Quality Control & Testing Charges 1 % of (A) | 69318 |
| 3 | Add For Royalty Charges | 96136 |
| 4 | Add for Electrification @ 3 % of (A) | 207955 |
| 8 | Add for Contengencies @ 4%of (A) | 277274 |
| 9 | Add for Labour Insurance @ 0.5 % of (A) | 34659 |
| 10 | Add for Work Insurance @ 1 % of (A) | 69318 |
| | Total (B) | 754660 |
| | Total Cost without G.S.T (A+B) | 7686509 |
| 5 | Add for G.S.T 12 % of Work Portion (C) | 831822 |
| | Total (A+B+C) | 8518331 |
| | Say | 85.18 Lakh |



FUND HEAD SHEET

DIVISION

SANCTIONED ESTIMATE NO

MAJOR HEAD

MINOR HEAD

SERVICE HEAD

DEPARTMENTAL HEAD

*Estimate is framed in the office
of..... probable
expenses that will be incurred for the work of **CONSTRUCTION OF SHED
FOR THE DALMIL, CLEANING , GRADING AND PACKING AT
GHAZIPUR, GUT NO 1, TALUKA PAITHAN DIST AURANGABAD.***

Cost of Work

Administratively approved under no

Technically Sanctioned under no

Estimate prepared by

And Checked By

GENERAL DESCRIPTION

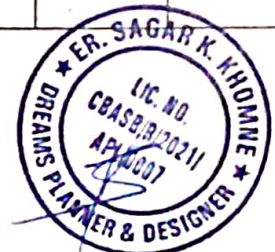
Attached Separatly



Name of Work :- CONSTRUCTION OF SHED FOR THE DALMIL, CLEANING , GRADING AND PACKING AT GHAZIPUR, GUT NO 1, TALUKA PAITHAN DIST AURANGABAD.

ABSTRACT

| Item No | Quantity | Description | Unit | Rate | Amount |
|---------|----------|--|------|--------|--------|
| 1 | | Excavation for foundation in earth, soils of all typos, sand, gravel and soft murum , upto all depth including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling,ramping,watering(including shoring and struting)etc complete | | | |
| | | C.S.R. Item No.21.02,21.04 | | | |
| | | Spec.No. BD.A 1 Page No.259 | | | |
| | 109.57 | (A) For Depth upto 1.50 | Cu.m | 193.00 | 21147 |
| | 42.66 | (B) For Depth below 1.50 | Cu.m | 241.00 | 10281 |
| 2 | | Excavation for foundation in Hard Murrum/boulders for all depth including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling ,ramping,watering including shoring and struting)etc complete | | | |
| | | C.S.R. Item No.21.06,21.08 | | | |
| | | Spec.No. BD.A 1 Page No.259 | | | |
| | 12.92 | (A) For Depth upto 1.50 | Cu.m | 212.00 | 2739 |
| | 9.25 | (B) For Depth below 1.50 | Cu.m | 265.00 | 2451 |
| 3 | | Excavation for foundation in soft rock and old cement/lime masonry for all depth including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling ,ramping,watering including shoring and struting)etc complete | | | |
| | | SSR Item No 21.14,21.16 | | | |
| | | Spec.No. BD.A 4 Page No.259 | | | |
| | 9.25 | (A) For Depth upto 1.50 | Cu.m | 402.00 | 3719 |
| | 9.25 | (B) For Depth below 1.50 | Cu.m | 416.00 | 3848 |
| 4 | 15.22 | Conveying materials obtained from excavation including all lifts, laying in layers of 20cm to 30cm. for a lead of 2 km inclusive from the site of excavation to the site of deposition as directed. | Cu.m | 280.13 | 4264 |
| | | C.S.R. Item No. 2.25 | | | |
| | | Spec. No. : As Directed By Engineer Incharge | | | |



| | | | | | |
|----|--------|---|------|---------|--------|
| 5 | 54.79 | Filling in plinth and floors with approved excavated material in 15cm to 20cm, layers including all leads ,watering and compaction complete. SSR Item No 21.36 Spec.No.: Bd.A.10 Page.No.262 | Cu.m | 113.00 | 6191 |
| 6 | 293.39 | Filling in plinth and floors with contractor's soil, sand or murum in 15cm to 20cm, layers including all leads watering and compaction complete. SSR Item No 21.37 Spec.No.: Bd.A.11Page.No.263 | Cu.m | 770.06 | 225928 |
| 7 | 416.58 | Providing Pre- construtional anti termite treatment by treating the bottom surface and the sides of excavation at the rate of 5 litres of emulsion concntrate of 0.5 % of Chloropyriphox per sqm of surface area with ten years guarnatee bond . As per I.S 6313 (part-III)-1973 (Quantity as per Item No 22.41 of schedule of rates of National Building Organisation) SSR Item no 21.22 Spec No As Directed by Enigneer Incharge | Sq.M | 92.00 | 38325 |
| 8 | 467.91 | Providing Pre- construtional anti termite treatment by treating the top surface of plinth filling at the rate of 5 litres of emulsion concntrate of 0.5 % of Chloropyriphox per sqm of surface area with ten years guarnatee bond . As per I.S 6313 (part-III)-1971 (Quantity as per Item No 22.43 of schedule of rates of National Building Organisation) SSR Item No 21.24 Spec No As Directed by Enigneer Incharge | Sq.M | 94.00 | 43984 |
| 9 | 90.33 | Providing soling using 80 mm size trap metal in 15 cm layer , including filling voids with sand-grit ramming watering complete. SSR Item No 21.4 Spec As directed by Engineer Incharge | Cu.m | 1762.18 | 159178 |
| 10 | 37.58 | Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for 50 mm thick below Plinth Beams 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 C.S.R. Item No.24.01 Spec As directed by Engineer Incharge | Sq M | 295.16 | 11092 |



| | | | | | |
|----|-------|---|------|----------|--------|
| 11 | 9.77 | 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 S.S.R. Item No.24.01 Spec. No. Bd-E-1 Page No. 287 | Cu.m | 5969.69 | 58324 |
| 12 | 40.32 | Providing and laying Cast in situ/Ready Mix cement concrete in M-15 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 S.S.R. Item No.24.08 Spec. No. Bd-E-1 Page No. 287 | Cu.m | 6829.55 | 275367 |
| 13 | 13.94 | 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, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro S.S.R. Item No. 25.11 Spec. No. Bd.F.3 Page No. 298 | Cu.m | 7022.66 | 97896 |
| 14 | | 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, 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 natural sand/V.S.I. quality Artificial Sand S.S.R. Item No. 25.31 Spec. No. Bd.F.5 Page No. 300 | | | |
| | 17.64 | (A) Ground Floor | Cu.m | 13403.73 | 236442 |
| | 0.00 | (B) First Floor | Cu.m | 13793.34 | 0 |



| | | | | | |
|------|------------------|---|----------|----------|--------|
| 15 | | 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, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand | | | |
| | | S.S.R. Item No. 25.50 | | | |
| | | Spec. No. Bd.F.6 Page No. 300 | | | |
| | 17.46 | (A) Ground Floor | Cu.m | 11899.72 | 207769 |
| 3.31 | (B) First Floor | Cu.m | 12244.21 | 40528 | |
| 16 | | 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 | | | |
| | | S.S.R. Item No. 26.05 | | | |
| | | Spec No Bd.F.9 page 303 | | | |
| 3.49 | (A) Ground Floor | Cu.m | 13527.72 | 47212 | |
| 17 | | Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and rougheningthem 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) | | | |
| | | SSR Item No 26.17 | | | |
| | | Spec No Bd.F.9 page 303 | | | |
| 0.32 | (A) Ground Floor | Cu.m | 15108.72 | 4835 | |



| | | | | | |
|----|-------|---|------|----------|--------|
| 18 | | Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/ pumping, compacting ,curing , finishing and roughening them if special finish is to beprovided and curing complete. (Excluding reinforcement andstructural steel) with fully automatic micro processor based PLC withSCADA 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) | | | |
| | | C.S.R. Item No. 26.23 Spec. No. Bd.F.12 Page No. 304 | | | |
| | 1.60 | (A) Ground Floor | Cu.m | 7216.72 | 11547 |
| 19 | | 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. | | | |
| | | S.S.R. Item No.26.33 Spec. No. Bd.F. 17 Page No. 306 | | | |
| | 7.79 | (A) Ground Floor | M.T | 71952.55 | 560428 |
| | 0.58 | (B) First Floor | M.T | 72670.33 | 42094 |
| 20 | 29.66 | Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete. | Cu.m | 7426.70 | 220276 |
| | | SSR Item No 27.01 page no 37 Spec.No.: Bd.G.3 Page.No.313 | | | |
| 21 | | 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 complete. | | | |
| | | SSR Item No 27.05 Spec.No.: Bd.G.5 Page.No.315 | | | |
| | 41.26 | (A) Ground Floor | Cu.m | 7653.70 | 315792 |
| | 13.86 | (B) First Floor | Cu.m | 7880.80 | 109228 |



| | | | | | |
|----|--------|--|------|---------|--------|
| 22 | | Providing internal cement plaster 20 mm thick in two coat in cement mortar 1:4 to concrete or brick surfaces in all positions including scaffolding and curing complete. | | | |
| | | SSR Item No 32.06 & 32.15 | | | |
| | | Spec.No.: Bd.L.4 Page.No.368 & Bd.L.10 page 370 | | | |
| | 50.08 | (A) Ground Floor | Sq.M | 425.69 | 21319 |
| | 69.87 | (B) First Floor | Sq.M | 438.29 | 30623 |
| 23 | | 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. | | | |
| | | SSR Item no 32.11 | | | |
| | | Spec No Bd.L.7 page no 367 | | | |
| | 371.49 | (A) Ground Floor | Sq.M | 606.11 | 225165 |
| | 170.02 | (B) First Floor | Sq.M | 624.08 | 106107 |
| 24 | | Finishing the terrace/chajja's slab Integrally mixed with water proofing compound in c.m. 1:3 proportion with 12 mm thick layer including curing, finishing using water proofing compound at the rate of 1kg per bag of cement and providing drip mould at the parapet and giving proper curved shape to the surface at the junction of slab and parapetetc. comple etc. | | | |
| | | SSR Item no 31.06 | | | |
| | | Spec No As Directed by Engineer Incharge | | | |
| | 9.60 | (A) Ground Floor | Sq.M | 332.19 | 3189 |
| 25 | 5.76 | Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc. complete | Sq M | 3107.00 | 17896 |
| | | SSR Item no 39.68 | | | |
| | | Spec No As Directed by Engineer Incharge | | | |
| 26 | | Providing and fixing mild steel grill work for windows,ventllator etc 20 kg/sqm as per drawing including fixtures , necessary welding and paiting with one coat of anti corrosive paint and two coat of oil painting complete | | | |
| | | SSR Item no 40.02 | | | |
| | | Spec No Bd.T.57 page no 511 | | | |
| | 5.76 | (A) Ground Floor | Sq M | 1507.00 | 8680 |



| | | | | |
|----|---|------|---------|--------|
| 27 | <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)</p> <p>SSR Item No 39 24 Spec No BD-T-55 Page No. 510</p> | Sq.M | 4310.00 | 124128 |
| 28 | <p>28.80 (A) Ground Floor Providing and laying cement concrete flooring 40 mm thick with M15 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30 cm x 30 cm or other size laid diagonally/ square etc finishing smooth (with extra cement) in any colour as directed and curing etc. complete. With Crushed Sand.</p> <p>SSR Item no 33.10 Spec No Bd.M.7 Page No. 383</p> | Sq M | 474.73 | 255243 |
| 29 | <p>537.66 (A) Ground Floor Providing and laying machine cut polished kotah stone slabs 20 to 25 mm. thick for treads and risers of steps and stair case, in one piece upto 1.35 m width with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning complete. S.S.R Item no 33.18 Spec No Bd.M 22 page No.390.</p> | Sq M | 742.03 | 1069 |
| 30 | <p>1.44 (A) Ground Floor Providing and applying one coat of seal cement primer of approved manufacture and shade including scaffolding preparing the surface by cleaning dirt and other foreign matter, straping if necessary including scaffolding etc complete</p> <p>SSR Item no 35 22 Spec No As Directed by Engineer Incharge</p> | Sq M | 19.00 | 7058 |
| | 371.40 (A) Ground Floor | Sq M | 19.60 | 3332 |
| | 170.02 (B) First Floor | Sq M | | |



| | | | | | |
|--------|-----------------|---|--------------|---------|----------|
| 31 | | Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. | | | |
| | | SSR Item No 35.14 | | | |
| | | Spec No Bd.0.8 Page No. 406 | | | |
| | 371.49 | (A) Ground Floor | Sq.M | 73.00 | 27119 |
| 170.02 | (B) First Floor | Sq.M | 75.20 | 12786 | |
| 32 | 401.12 | Providing and applying priming coat on concrete/masonry/ asbestos cement/ plastered surface of approved manufacture including scaffolding preparing the surface by cleaning dirt and other foreign matter, scraping if necessary including scaffolding etc complete | Sq.M | 34.00 | 13638 |
| | | SSR Item no 35.21 | | | |
| | | Spec No As Directed by Engineer Incharge | | | |
| 33 | 401.12 | Providing and applying, plastic emulsion paint of approved quality, colour and shade to old and new surface in two coats including scaffolding, preparing the surface. (excluding primer coat) complete. | Sq.M | 70.00 | 28079 |
| | | SSR Item no 36.12 | | | |
| | | Spec. No. Bd.P.6 Page No.414. | | | |
| 34 | | Providing structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed designs and drawing including fixing in position without connecting plates, braces etc. and paintings complete. | | | |
| | | SSR Item no 23.01 | | | |
| | | Spec. No.Bd.C.2 Page No.275 | | | |
| | | 5.95 | Ground Floor | Mt | 89181.00 |
| 22.27 | First Floor | Mt | 90072.81 | 2005541 | |
| 35 | 710.40 | Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanized iron screws and bolts, lead and bitumen washers etc. complete. (Weight of 6.8 Kilogram/sq m.) | Per Sqm | 1042.00 | 740237 |
| | | SSR Item no 38.05 | | | |
| | | Spec. No.Bd.R.5, Page No. 453 | | | |



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|--------------------------|--------|---|---------|---------|----------------|
| 36 | 1.00 | Providing and fixing board displaying information, such as 'Name of work, Tender cost, Name of Contractor, Work completion and liability period etc', having rectangular shape of 1.20m x 0.90m size made out 18 gauge (1.25mm) thick mild steel sheet painted with one coat of Zinc chromate stoving primer and two coats of enamel paint on front side and grey stove enamel on back side and border / messages / symbols etc. with approved colour shade paint complete, on M.S. angle of size 35 x 35 x 3 mm frame with properly cross braced M.S. angles of size 35mmx35mmx3mm duly painted including Two M.S. angle iron posts of size 65 mm x 65 mm x 6 mm, 3.65 m long painted with alternate black and white bands of 25 cm width including all fixtures etc. and fixing the boards in 1:4:8 concrete block of size 60 cm x 60 cm x 75 cm including, excavation, refilling, transportation, and labour etc complete. Spec. No. As directed by Engineer in Charge | Nos | 9284.00 | 9284 |
| | | C.S.R. Item No. 6.36 | | | |
| | | Spec. No. : MORTH 801 | | | |
| Total (A) | | | | | 6931849 |
| 38 | | Recovery of Royalty Charges as per Government of Maharashtra, Revenue and Forest Departments Gazette No 67 dated 15 May 2015 at the rate of Rs 141.34 per Cum against the utilization of murrum/soil, solling/rubble and hand broken metal . (The said amount will be added in the bill of the contractor and will be equally deducted) (Fixed Rate) | | | |
| | | CSR General Note 4.50 | | | |
| | | Spec No MORTH 806 | | | |
| | 293.39 | (A) Soil/Murrum | Per Cum | 216.18 | 63425 |
| | 108.40 | (B) Rubble/Solling/Hand Broken metal | Per Cum | 216.18 | 23433 |
| | 42.92 | (C) Sand | Per Cum | 216.18 | 9278 |
| Total Royalty (B) | | | | | 96136 |
| Total (A+B) | | | | | 7027985 |



Name of Work :- CONSTRUCTION OF SHED FOR THE DALMIL, CLEANING , GRADING AND PACKING AT GHAZIPUR, GUT NO 1, TALUKA PAITHAN DIST AURANGABAD page

Measurement

| Sr.No | Description | Nos | L | B | D/H | Quantity | | |
|--------------------------------|--|-------|--------|------|-------|--------------|---------------------------------------|------------|
| 1 | Excavation for foundation in soft earth for all depth | | | | | | | |
| | C.S.R. Item No.21.02,21.04 | | | | | | | |
| | (A) Upto 1.5 m depth | | | | | | | |
| | For Isolated Footing | | | | | | | |
| | Type I 1200 x 1200 | 10 | 1.500 | 1.50 | 1.50 | 33.75 | | |
| | Type II 1500 X 1000 | 18 | 1.800 | 1.30 | 1.50 | 63.18 | | |
| | For Plinth Protection | | | | | | | |
| | | 2 | 31.800 | 0.90 | 0.15 | 8.59 | | |
| | | 2 | 15.000 | 0.90 | 0.15 | 4.05 | | |
| | Total upto 1.5 m depth | | | | | | 109.57 | Cum |
| (B) Below 1.5 m depth | | | | | | | | |
| For Isolated Footing | | | | | | | Cum | |
| Type I 1200 x 1200 | 10 | 1.500 | 1.50 | 0.60 | 13.50 | | | |
| Type II 1500 X 1000 | 18 | 1.800 | 1.50 | 0.60 | 29.16 | | | |
| Total BELOW 1.5 m depth | | | | | | 42.66 | Cum | |
| 2 | Excavation for foundation in Hard Murrum/boulders | | | | | | | |
| | C.S.R. Item No.21.06,21.08 | | | | | | | |
| | For Isolated Footing | | | | | | | |
| | (A) Upto 1.5 m depth | | | | | | | |
| | Type I | 10 | 1.500 | 1.50 | 0.20 | 4.50 | | |
| | Type II | 18 | 1.800 | 1.30 | 0.20 | 8.42 | | |
| | Total upto 1.5 m depth | | | | | | 12.92 | Cum |
| | (B) Below 1.5 m depth | | | | | | | |
| | For Isolated Footing | | | | | | | Cum |
| | Type I 1200 x 1000 | 10 | 1.500 | 1.30 | 0.15 | 2.93 | | |
| Type II 1500 X 1000 | 18 | 1.800 | 1.30 | 0.15 | 6.32 | | | |
| Total BELOW 1.5 m depth | | | | | | 9.25 | Cum | |
| 3 | Excavation for foundation in Soft Rock for all depth | | | | | | | |
| | SSR Item No 21.14,21.16 | | | | | | | |
| | Consider Provisional Quantity | | | | | | | |
| (A) Upto 1.5 m depth | | | | | | 9.25 | Cum | |
| (B) Below 1.5 m depth | | | | | | 9.25 | Cum | |
| 4 | Conveying materials obtain from foundation with 2 kms lead | | | | | | | |
| | C.S.R. Item No. 2.25 | | | | | | | |
| | | | | | | | 10 % of Quantity of Item no (1) & (2) | Cum |
| 5 | Filling in plinth and floors with approved excavated material | | | | | | | |
| | SSR Item No 21.36 | | | | | | | |
| | | | | | | | 50 % Qty as per Item no (4) | Cum |



| | | | | | | | |
|----|--|----|-------|-------|-------|--------------|------------|
| | | 4 | 4.00 | 0.23 | | 3.68 | |
| | Total | | | | | 37.68 | Sqm |
| 11 | P.C.C 1:3:6 | | | | | | |
| | <i>S.S.R. Item No.24.01</i> | | | | | | |
| | Below Footing | | | | | | |
| | Type I | 10 | 1.50 | 1.50 | 0.150 | 3.38 | |
| | Type II | 18 | 1.80 | 1.30 | 0.150 | 6.32 | |
| | For Entrance Steps | 1 | 1.50 | 0.60 | 0.075 | 0.07 | |
| | Total | | | | | 9.77 | Cum |
| 12 | P.C.C 1 : 2 : 4 | | | | | | |
| | <i>S.S.R. Item No.24.08</i> | | | | | | |
| | Below Flooring | | | | | | |
| | Godown Porton | 1 | 14.54 | 29.54 | 0.075 | 32.21 | |
| | Loading Platform | 4 | 4.00 | 2.400 | 0.075 | 2.88 | |
| | For Plinth Protection Work | 2 | 30.75 | 0.750 | 0.075 | 3.46 | |
| | | 2 | 15.75 | 0.750 | 0.075 | 1.77 | |
| | Total | | | | | 40.32 | Cum |
| 13 | M-20 for R.C.C. work in foundations like raft, grillages, strips, foundations and footings. | | | | | | |
| | <i>S.S.R. Item No. 25.11</i> | | | | | | |
| | Type I | 10 | 1.200 | 1.20 | 0.200 | 2.88 | |
| | | 10 | 0.800 | 0.70 | 0.200 | 1.12 | |
| | Type II | 18 | 1.50 | 1.20 | 0.200 | 6.48 | |
| | | 18 | 1.20 | 0.80 | 0.200 | 3.46 | |
| | Total | | | | | 13.94 | Cum |
| 14 | M-20 for R.C.C. columns | | | | | | |
| | <i>S.S.R. Item No. 25.31</i> | | | | | | |
| | Ground Floor | | | | | | |
| | From 0+00 to 3.60 m | | | | | | |
| | Type I 230 x 460 | 10 | 0.23 | 0.46 | 4.500 | 4.76 | |
| | Type II 230 x 530 | 18 | 0.30 | 0.53 | 4.500 | 12.88 | |
| | (A) Total for G.F | | | | | 17.64 | Cum |
| | First Floor | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | (B) Total for F.F | | | | | 0.00 | Cum |



| | | | | | | | | | |
|-----------------------------------|---------------------------------|-----|-------|-------|-------|--------------|--|--|------------|
| 15 | M-20 for R.C.C. beams & lintels | | | | | | | | |
| | S.S.R. Item No. 25.50 | | | | | | | | page |
| Ground Floor | | | | | | | | | |
| (I) Plinth Beam | | | | | | | | | |
| | X Direction Beams | 2 | 15.00 | 0.230 | 0.380 | 2.62 | | | |
| | Y Direction Beams | 2 | 30.00 | 0.230 | 0.380 | 5.24 | | | |
| | Ded Col | -10 | 0.23 | 0.230 | 0.380 | -0.20 | | | |
| | | -18 | 0.30 | 0.230 | 0.380 | -0.47 | | | |
| | For Loading Platform | 8 | 2.40 | 0.230 | 0.380 | 1.68 | | | |
| | | 4 | 4.00 | 0.230 | 0.380 | 1.40 | | | |
| | Total Plinth Beam (A) | | | | | 10.27 | | | A |
| (B) Local Lintel Beam | | | | | | | | | |
| | X Direction Beams | 2 | 15.00 | 0.23 | 0.38 | 2.62 | | | |
| | Y Direction Beams | 2 | 30.00 | 0.23 | 0.38 | 5.24 | | | |
| | Ded Col | -10 | 0.23 | 0.23 | 0.38 | -0.2 | | | |
| | | -18 | 0.30 | 0.23 | 0.38 | -0.47 | | | |
| | Total Lintel Beam (B) | | | | | 7.19 | | | B |
| | Total Beams (A+B) | | | | | 17.46 | | | |
| | Total Beams G.F | | | | | 17.46 | | | Cum |
| First Floor | | | | | | | | | |
| Tie Beam at Truss And Gable Level | | | | | | | | | |
| | X Direction Beams | 2 | 16.80 | 0.23 | 0.460 | 3.55 | | | |
| | Ded Col | -10 | 0.23 | 0.23 | 0.460 | -0.24 | | | |
| | Total Beams F.F | | | | | 3.31 | | | Cum |
| 16 | M-20 for Chajja's | | | | | | | | |
| | S.S.R. Item No. 26.05 | | | | | | | | |
| Ground Floor | | | | | | | | | |
| | For Rolling Shutter | 4 | 4.00 | 1.20 | 0.130 | 2.50 | | | |
| | For Window W1 Top/Bottom | 8 | 1.80 | 0.60 | 0.115 | 0.99 | | | |
| | Total For G.F | | | | | 3.49 | | | Cum |
| First Floor | | | | | | | | | |
| | Total For F.F | | | | | 0.00 | | | Cum |
| 17 | M-20 for Pardi | | | | | | | | |
| | SSR Item No 26.17 | | | | | | | | |
| Ground Floor | | | | | | | | | |
| | For Window W1 Fins | 8 | 0.90 | 0.60 | 0.075 | 0.32 | | | |
| | Total For G.F | | | | | 0.32 | | | Cum |
| First Floor | | | | | | | | | |
| | Total For F.F | | | | | 0.00 | | | Cum |



| | | | | | | | | |
|----|--|-----|-------|------|-------|--------|------|--|
| 21 | B.B.M 230 mm thick in superstructure upto all height | | | | | | page | |
| | SSR Item No 27.05 | | | | | | | |
| | Ground Floor | | | | | | | |
| | From 0+00 to 3.60 m | | | | | | | |
| | X Direction | 2 | 15.00 | 0.23 | 3.000 | 20.70 | | |
| | Y Direction | 2 | 30.00 | 0.23 | 3.000 | 41.40 | | |
| | Ded Col | -10 | 0.23 | 0.23 | 3.00 | -1.59 | | |
| | | -18 | 0.30 | 0.23 | 3.00 | -3.73 | | |
| | Ded Lintel Beam | -2 | 15.00 | 0.23 | 0.380 | -2.62 | | |
| | | -2 | 30.00 | 0.23 | 0.380 | -5.24 | | |
| | DEDUCTION | | | | | | | |
| | RS | -4 | 3.00 | 0.23 | 2.400 | -6.62 | | |
| | W1 | -4 | 1.50 | 0.23 | 0.750 | -1.04 | | |
| | Total G.F | | | | | 41.26 | Cum | |
| | First Floor | | | | | | | |
| | Above +3.60 m | | | | | | | |
| | X Direction | 2 | 15.00 | 0.23 | 2.000 | 13.80 | | |
| | Ded Col | -10 | 0.23 | 0.23 | 1.400 | -0.74 | | |
| | Ded Tie/Gable Beam | -2 | 15.00 | 0.23 | 0.460 | -3.17 | | |
| | Add for Gable Side Elevation | 2 | 4.80 | 0.23 | 0.600 | 1.32 | | |
| | | 2 | 9.60 | 0.23 | 0.600 | 2.65 | | |
| | Tota F.F | | | | | 13.86 | Cum | |
| 22 | Internal cement plaster 20 mm thick. | | | | | | | |
| | SSR Item No 32.06 & 32.15 | | | | | | | |
| | Ground Floor | | | | | | | |
| | From 0+00 to 3.60 m | | | | | | | |
| | Godown | 2 | 14.54 | | 3.000 | 87.24 | | |
| | | 2 | 29.54 | | 3.600 | 212.69 | | |
| | Gable Triangualr Porton 0.5 x | 2 | 14.54 | | 1.500 | 21.81 | | |
| | Ded RS1 75 %, 0.75 x | -4 | 3.00 | | 2.400 | -21.60 | | |
| | Ded W1 50 %, 0.5 x | -4 | 1.50 | | 0.750 | -2.25 | | |
| | Total GF | | | | | 297.89 | Sqm | |
| | First Floor | | | | | | | |
| | Above +3.60 m | | | | | | | |
| | Godown | 2 | 14.54 | | 1.400 | 40.71 | | |
| | | 2 | 14.54 | | 1.400 | 40.71 | | |
| | Gable Triangualr Porton 0.5 x | 2 | 14.54 | | 1.500 | 21.81 | | |
| | Total FF | | | | | 103.23 | Sqm | |



| | | | | | | | | | | | | |
|----|---|----|--------|------|--|-------|---------------|--|--|-------------|--|------|
| 23 | Sand faced plaster | | | | | | | | | | | |
| | SSR Item no 32.11 | | | | | | | | | | | page |
| | Ground Floor | | | | | | | | | | | |
| | Front Side/Back Side | 2 | 15.000 | | | 3.000 | 90.00 | | | | | |
| | Left/Righth Side | 2 | 30.00 | | | 3.000 | 180.00 | | | | | |
| | Column Offiset | 36 | 0.30 | | | 3.000 | 27.54 | | | | | |
| | Column Offiset | 20 | 0.23 | | | 3.000 | 13.80 | | | | | |
| | Ded RS1 75 % , 0.75 x | -4 | 3.00 | | | 2.400 | -21.60 | | | | | |
| | Ded W1 50 % , 0.5 x | -4 | 1.50 | | | 0.750 | -2.25 | | | | | |
| | Chajjas RS1 T/B | 8 | 4.00 | | | 1.500 | 48.00 | | | | | |
| | Chajjas W1 T/B | 16 | 1.50 | | | 0.600 | 14.40 | | | | | |
| | Fins W1 T/B | 16 | 0.60 | | | 0.750 | 7.20 | | | | | |
| | Loading Platform | 8 | 2.40 | | | 0.750 | 14.40 | | | | | |
| | Total Ground Floor | | | | | | 371.49 | | | Sqm | | |
| | First Floor | | | | | | | | | | | |
| | Front Side/Back Side | 2 | 15.000 | | | 2.150 | 64.50 | | | | | |
| | Left/Righth Side | 2 | 12.46 | | | 2.150 | 53.58 | | | | | |
| | Column Offiset | 20 | 0.30 | | | 2.150 | 10.97 | | | | | |
| | Gable Walls | 4 | 4.80 | | | 0.600 | 11.52 | | | | | |
| | | 4 | 9.60 | | | 0.600 | 23.04 | | | | | |
| | | 2 | 4.80 | | | 0.230 | 2.21 | | | | | |
| | | 2 | 9.12 | | | 0.230 | 4.20 | | | | | |
| | Total First Floor | | | | | | 170.02 | | | Sqm | | |
| 24 | Integrally mixed water proofing | | | | | | | | | | | |
| | SSR Item no 31.06 | | | | | | | | | | | |
| | Ground Floor for Chajjas | | | | | | | | | | | |
| | For RS1 | 4 | 4.000 | 0.60 | | | 9.60 | | | | | |
| | For W1 | 4 | 1.500 | 0.60 | | | 3.60 | | | | | |
| | Total For G.F | | | | | | 9.60 | | | Sqm | | |
| | First Floor for Chajja,s | | | | | | | | | | | |
| | Total For F.F | | | | | | 0.00 | | | Sqm | | |
| 25 | Aluminum Window/Ventilator | | | | | | | | | | | |
| | SSR Item no 39.68 | | | | | | | | | | | |
| | W 1 1200 x 1200 | 4 | 1.2 | | | 1.200 | 5.76 | | | Sq.M | | |
| 26 | Mild steel grill work for windows,ventilator | | | | | | | | | | | |
| | SSR Item no 40.02 | | | | | | | | | | | |
| | Ground Floor | | | | | | | | | | | |
| | W1 | 4 | 1.200 | | | 1.200 | 5.76 | | | | | |
| | Total | | | | | | 5.76 | | | Sqm | | |



| | | | | | | | | |
|----|---|---|-------|-------|-------|---------------|------|-------------|
| 27 | Rolling Shutter SSR Item No 39.24 | | | | | | page | |
| | Ground Floor | | | | | | | |
| | RS 3000 x 2400 | 4 | 3.00 | | 2.400 | 28.800 | | |
| | Total | | | | | 28.80 | | Sqm |
| 28 | Cement Concrete Flooring S.S.R Item no 33.18 | | | | | | | |
| | Ground Floor | | | | | | | |
| | Godown Hall | 1 | 14.54 | 29.54 | | 429.51 | | |
| | Loading Platform | 4 | 4.00 | 2.40 | | 38.40 | | |
| | Plinth Protection work | 2 | 15.75 | 0.75 | | 23.63 | | |
| | | 2 | 30.75 | 0.75 | | 46.13 | | |
| | Total G.F | | | | | 537.66 | | Sqm |
| 29 | Kotah for Risers and steps S.S.R Item no 33.18 | | | | | | | |
| | Ground Floor | | | | | | | |
| | Tread | 3 | 1.50 | 0:30 | | 1.35 | | |
| | Riser | 4 | 0.15 | 0.15 | | 0.09 | | |
| | Total | | | | | 1.44 | | Sq.M |
| 30 | One coat of seal cement primer | Qty As per Sand Face Plaster | | | | | | |
| | Ground Floor | | | | | 371.49 | | Sq.M |
| | First Floor | | | | | 170.02 | | Sq.M |
| 31 | Water proof cement paint | Qty As per Sand Face Plaster | | | | | | |
| | Ground Floor | | | | | 371.49 | | Sq.M |
| | First Floor | | | | | 170.02 | | Sq.M |
| 32 | Priming coat on concrete/masonry/ asbestos cement/ plastered surface | Qty As per Ceiling Putty+12 mm Internal Plaster+ 20 mm Plaster | | | | | | |
| | A)Ground Floor, | | | | | | | |
| | 20 mm Plaster | | | | | 297.89 | | |
| | B) First Floor | | | | | | | |
| | 20 mm Plaster | | | | | 103.23 | | |
| | Total (GF+FF) | | | | | 401.12 | | Sqm |
| 33 | Plastic Emulsion Paint | Qty As per 20 mm Plaster | | | | | | Sq.M |
| | A)Ground Floor, | | | | | | | |
| | 20 mm Plaster | | | | | 297.89 | | |
| | B) First Floor | | | | | | | |
| | 20 mm Plaster | | | | | 103.23 | | |
| | Total | | | | | 401.12 | | Sqm |
| 34 | Structural Steel | | | | | | | |
| | Ground Floor | | | | | | | |
| | Base Plate 530 x 300 x 20 mm 0.785 x | 18 | 0.53 | 0.3 | 0.0 | | | |
| | Column 2 x ISMC 200 @ 44.2 kg/rmt | 36 | 2.70 | 44.20 | | | | |
| | Runner 50 x 50 x 6 @ 4.5 kg/rmt | 4 | 30.00 | 4.50 | | | | |



| | | | | | | | |
|----|--|-------|-------|--------|--|---------------------|-----|
| | For Purlins 50.50 6 mm For Loading Platform | 4 | 4.00 | 4.70 | | 0.30 <i>page</i> | |
| | Steel Col for Loading Platform | 4 | 8.00 | 15.10 | | 0.48 | |
| | Total | | | | | 5.67 | |
| | Add 5 % for Gusset,Cleat etc | | | | | 0.283 | |
| | Total G.F | | | | | 5.95 | Mt |
| | First Floor | | | | | | |
| | Beams ISMB 400 @ 93 kg/rmt | 18 | 8.30 | 93.00 | | 13.89 | Mt |
| | Purlins 50 x 50 x 6 mm @ 4.5kg/rmt | 8 | 30.00 | 4.50 | | 1.08 | |
| | Total | | | | | 21.21 | |
| | Add 5 % for Gusset,Cleat etc | | | | | 1.060 | |
| | Total F.F | | | | | 22.27 | Mt |
| 35 | Galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing | | | | | | |
| | SSR Item no 38.05 | | | | | | |
| | For Side Cladding walls | 2 | 2.70 | 30.000 | | 162.00 | |
| | For Roofing Godown | 2 | 8.50 | 30.000 | | 510.00 | |
| | For Roofing of Loading Platform | 4 | 4.00 | 2.400 | | 38.40 | |
| | Total | | | | | 710.40 | Sqm |
| 36 | Information Display Board | | | | | | |
| | C.S.R. Item No. 6.36 | | | | | | |
| | | 1 | | | | 1.0 | |
| | Total | | | | | 1.0 | Nos |
| 37 | Recovery of Royalty charges for the murrum, soil,solling and hand broken metal | | | | | | |
| | CSR Genral Note 4.50 | | | | | | |
| | (A) Murrum/Soil | | | | | | |
| | Plinth Filling | 1.00 | | 293.39 | | 293.39 | |
| | Total (A) | | | | | 293.39 | Cum |
| | (B) Solling/Hand broken metal | | | | | | |
| | Solling | 1.20 | | 90.33 | | 108.40 | |
| | Total (B) | | | | | 108.40 | Cum |
| | (C) Sand | | | | | | |
| | M-10 Grade Concrete | 0.47 | | 9.77 | | 4.59 | |
| | M-15 grade Conc | 0.44 | | 41.92 | | 19.70 | |
| | M-20 grade Conc | 0.425 | | 43.82 | | 18.62 | |
| | Total (C) | | | | | 42.92 | Cum |



Name of Work :- CONSTRUCTION OF SHED FOR THE DALMIL, CLEANING , GRADING AND PACKING AT GHAZIPUR, GUT NO 1, TALUKA PAITHAN DIST AURANGABAD.

Rate Analysis

| | | | | | | | |
|----|---|--------|---|---------|----|----|-----------------|
| 4 | Conveying materials obtained from excavation including all lifts, laying in layers of 20cm to 30cm. for a lead of 2 km inclusive from the site of excavation to the site of deposition as directed. | | | | | | |
| | C.S.R. Item No. 2.25 | | | | | | |
| A | Basic Rate | | | | | Rs | 177.00 |
| | Deduct Compaction Charges | | | | | | -75.00 |
| | Add 2 kms for lead | 1.00 | x | 178.13 | Rs | | 178.13 |
| | Total | | | | | | 280.13 Per Cum |
| 6 | Filling in plinth and floors with contractor's soil, sand or murum in 15cm to 20cm, layers including all leads watering and compaction complete. | | | | | | |
| | SSR Item No 21.37 | | | | | | |
| | Basic Rate | | | | | Rs | 550.00 |
| | Lead Charges | 1.00 | x | 220.06 | Rs | | 220.06 |
| | Total | | | | | Rs | 770.06 Per Cum |
| 9 | Providing soling using 80 mm size trap metal in 15 cm layer , including filling voids with sand-grit ramming watering complete. | | | | | | |
| | SSR Item No 21.4 | | | | | | |
| | Basic Rate | | | | | Rs | 1322.00 |
| | Add for lead | 1.2 | x | 366.82 | Rs | | 440.18 |
| | Total | | | | | | 1762.18 Per Cum |
| 10 | Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for 50 mm thick below Plinth Beams 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 | | | | | | |
| | C.S.R. Item No.24.01 | | | | | | |
| | Basic Rate | | | | | Rs | 5538.00 Per Cum |
| | Rate for 50 mm thick | 0.05 | x | 5538.00 | | | 276.90 Per Sqm |
| | Lead for Cement | 0.011 | x | 174.55 | Rs | | 1.92 |
| | Lead for sand | 0.0235 | x | 237.12 | Rs | | 5.57 |
| | Lead for metal below 40 mm | 0.047 | x | 299.83 | Rs | | 14.09 |
| | Deduct Royalty for Sand | -0.024 | x | 141.34 | Rs | | -3.32 |
| | Total | | | | | | 295.16 Per Sqm |



| | | | | | | | |
|----|---|--|--|--------|---|--------|-----------------|
| 11 | 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 | | | | | | |
| | S.S.R. Item No.24.01 | | | | | | |
| | Basic Rate | | | | | Rs | 5538.00 Per Cum |
| | Lead for Cement | | | 0.22 | x | 174.55 | Rs 38.40 |
| | Lead for sand | | | 0.47 | x | 237.12 | Rs 111.45 |
| | Lead for metal below 40 mm | | | 0.94 | x | 299.83 | Rs 281.84 |
| | Total | | | | | Rs | 5969.69 Per Cum |
| 12 | Providing and laying Cast in situ/Ready Mix cement concrete in M-15 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 | | | | | | |
| | S.S.R. Item No.24.08 | | | | | | |
| | Basic Rate | | | | | Rs | 6030.00 Per cum |
| | Add Cement Diff (6.00-4.40) | | | 0.08 | x | 4700 | 376.00 |
| | Lead for Cement | | | 0.300 | x | 174.55 | Rs 52.37 |
| | Lead for sand | | | 0.44 | x | 237.12 | Rs 104.33 |
| | Lead for metal below 40 mm | | | 0.89 | x | 299.83 | Rs 266.85 |
| | Total | | | | | Rs | 6829.55 Per cum |
| 13 | 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, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand | | | | | | |
| | S.S.R. Item No. 25.11 | | | | | | |
| | Basic Rate | | | | | Rs | 6666.00 Per cum |
| | Lead for Cement | | | 0.35 | x | 174.55 | Rs 61.09 |
| | Lead for sand | | | 0.425 | x | 237.12 | Rs 100.78 |
| | Lead for metal below 40 mm | | | 0.85 | x | 299.83 | Rs 254.86 |
| | Deduct Royalty for Sand | | | -0.425 | x | 141.34 | Rs -60.07 |
| | Total | | | | | Rs | 7022.66 Per cum |



| | | | | | | | |
|----|---|-------|---|--------|----|----------|-----------|
| 14 | 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, 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 natural sand/V.S.I. quality Artificial Sand | | | | | | |
| | S.S.R. Item No. 25.31 | | | | | | |
| | Basic Rate | | | | Rs | 12987.00 | Per cum |
| | Lead for Cement | 0.35 | x | 174.55 | Rs | 61.09 | |
| | Lead for sand | 0.425 | x | 237.12 | Rs | 100.78 | |
| | Lead for metal below 40 mm | 0.85 | x | 299.83 | Rs | 254.86 | |
| | Total Rate for G.F | | | | Rs | 13403.73 | A |
| | Add 3 % for floor lift | | | | | 389.61 | |
| | Rate at F.F | | | | Rs | 13793.34 | B |
| 15 | 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, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand | | | | | | |
| | S.S.R. Item No. 25.50 | | | | | | |
| | Basic Rate | | | | Rs | 11483.00 | Per cumec |
| | Lead for Cement | 0.35 | x | 174.55 | | 61.09 | |
| | Lead for sand | 0.425 | x | 237.12 | | 100.78 | |
| | Lead for metal below 40 mm | 0.85 | x | 299.83 | | 254.86 | |
| | Total Rate for G.F | | | | Rs | 11899.72 | A |
| | Add 3 % for floor lift | | | | | 344.49 | |
| | Rate at F.F | | | | Rs | 12244.21 | B |
| 16 | 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 | | | | | | |
| | S.S.R. Item No. 26.05 | | | | | | |
| | Basic Rate | | | | Rs | 13111.00 | Per cumec |
| | Lead for Cement | 0.35 | x | 174.55 | | 61.09 | |
| | Lead for sand | 0.425 | x | 237.12 | | 100.78 | |
| | Lead for metal below 40 mm | 0.85 | x | 299.83 | | 254.86 | |
| | Total Rate for G.F | | | | Rs | 13527.72 | |
| | Add 3 % for floor lift | | | | | 393.00 | |
| | Rate at F.F | | | | Rs | 13920.72 | |



| | | | | | | | |
|----|---|-------|---|--------|----|----------|-----------|
| 17 | Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and rougheningthem 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) | | | | | | |
| | SSR Item No 26.17 | | | | | | |
| | Basic Rate | | | | Rs | 14692.00 | Per cumec |
| | Lead for Cement | 0.35 | x | 174.55 | Rs | 61.09 | |
| | Lead for sand | 0.425 | x | 237.12 | Rs | 100.78 | |
| | Lead for metal below 40 mm | 0.85 | x | 299.83 | Rs | 254.86 | |
| | Total Rate for G.F | | | | Rs | 15108.72 | A |
| | Add 3 % for floor lift | | | | | 440.76 | |
| | Rate at F.F | | | | Rs | 15549.48 | B |
| 18 | Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/ pumping, compacting ,curing , finishing and roughening them if special finish is to beprovided and curing complete. (Excluding reinforcement andstructural steel).with fully automatic micro processor based PLC withSCADA 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) | | | | | | |
| | C.S.R. Item No. 26.23 | | | | | | |
| | Basic Rate | | | | Rs | 6800.00 | Per cumec |
| | Lead for Cement | 0.35 | x | 174.55 | Rs | 61.09 | |
| | Lead for sand | 0.425 | x | 237.12 | Rs | 100.78 | |
| | Lead for metal below 40 mm | 0.85 | x | 299.83 | Rs | 254.86 | |
| | Total Rate for G.F | | | | Rs | 7216.72 | A |
| | Add 3 % for floor lift | | | | | 204.00 | |
| | Rate at F.F | | | | Rs | 7420.72 | B |
| 19 | 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. | | | | | | |
| | S.S.R. Item No.26.33 | | | | | | |
| | Basic Rate | | | | Rs | 71778.00 | Per MT |
| | Lead Charges | 1.00 | x | 174.55 | Rs | 174.55 | |
| | Total Rate for G.F | | | | Rs | 71952.55 | A |
| | Add 1% for floor lift | | | | | 717.78 | |
| | Rate at F.F | | | | Rs | 72670.33 | |



| | | | | | | | | |
|----|--|-------|---|--------|----|-------|---------|-----------|
| 20 | Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete. | | | | | | | |
| | SSR Item No 27.01 page no 37 | | | | | | | |
| | Basic Rate | | | | | Rs | 7343.00 | Per cumec |
| | Lead for Cement | 0.072 | x | 174.55 | Rs | 12.57 | | |
| | Lead for sand | 0.30 | x | 237.12 | Rs | 71.14 | | |
| | Lead for Bricks | 500 | x | 0.00 | | 0.00 | | |
| | Total Rate for G.F | | | | | Rs | 7426.70 | A |
| 21 | 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 complete. | | | | | | | |
| | SSR Item No 27.05 | | | | | | | |
| | Basic Rate | | | | | Rs | 7570.00 | Per cumec |
| | 420 | 0.072 | x | 174.55 | Rs | 12.57 | | |
| | Lead for sand | 0.30 | x | 237.12 | Rs | 71.14 | | |
| | Lead for Bricks | 500 | x | 0.00 | | 0.00 | | |
| | Total Rate for G.F | | | | | Rs | 7653.70 | A |
| | Add 3 % for floor lift | | | | | | 227.10 | |
| | Rate at F.F | | | | | Rs | 7880.80 | B |
| 22 | Providing internal cement plaster 20 mm thick in two coat in cement mortar 1:4 to concrete or brick surfaces in all positions including scaffolding and curing complete. | | | | | | | |
| | SSR Item No 32.06 & 32.15 | | | | | | | |
| | Basic Rate | | | | | Rs | 420.00 | |
| | Total Basic Rate | | | | | | 420.00 | |
| | Add for lead Sand | 0.024 | x | 237.12 | Rs | 5.69 | | |
| | Total Rate for G.F | | | | | Rs | 425.69 | A |
| | Add 3 % for floor lift | | | | | | 12.60 | |
| | Rate at F.F | | | | | Rs | 438.29 | B |
| 23 | 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. | | | | | | | |
| | SSR Item no 32.11 | | | | | | | |
| | Basic Rate | | | | | Rs | 599.00 | Per Sqm |
| | Lead for sand | 0.03 | x | 237.12 | Rs | 7.11 | | |
| | Total Rate for G.F | | | | | Rs | 606.11 | Per Sqm |
| | Add 3 % for floor lift | | | | | | 17.97 | |
| | Rate at F.F | | | | | | | Per Sqm |

rate analysis



| | | | | | | | |
|----|--|--|--|--|--|----|------------------|
| 24 | Finishing the terrace/chajja's slab integrally mixed with water proofing compound in c.m.1:3 proportion with 12 mm thick layer including curing, finishing using water proofing compound at the rate of 1kg per bag of cement and providing drip mould at the parapet and giving proper curved shape to the surface at the junction of slab and parapetetc. comple etc. | | | | | | |
| | | | | | | | |
| | | | | | | Rs | 320.00 Per Sqm |
| | | | | | | Rs | 12.19 |
| | | | | | | Rs | 332.19 Per Sqm |
| | | | | | | | 9.60 |
| | | | | | | Rs | 341.79 Per Sqm |
| 28 | Providing and laying cement concrete flooring 40 mm thick with M15 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30 cm x 30 cm or other size laid diagonally/ square etc finishing smooth (with extra cement) in any colour as directed and curing etc. complete. With Crushed Sand. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | Rs | 460.00 Per Sq.m |
| | | | | | | | 4.17 |
| | | | | | | | 10.55 |
| | | | | | | Rs | 474.73 Per Sq.m |
| 29 | Providing and laying machine cut polished kotah stone slabs 20 to 25 mm. thick for treads and risers of steps and stair case, in one piece upto 1.35 m width with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning complete. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | Rs | 1493.00 Per Sq.m |
| | | | | | | | 4.74 |
| | | | | | | Rs | 1497.74 Per Sq.m |
| 34 | Providing structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed designs and drawing including fixing in position without connecting plates, braces etc. and paintings complete. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | Rs | 89181.00 |
| | | | | | | | |
| | | | | | | | 89181.00 Per Mt |
| | | | | | | Rs | 891.81 |
| | | | | | | | 90072.81 Per Mt |

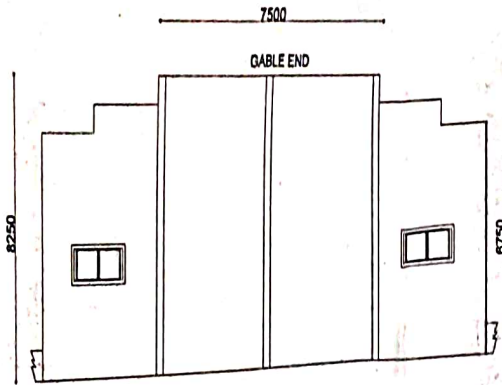


Name of Work :- CONSTRUCTION OF SHED FOR THE DALMIL, CLEANING , GRADING AND PACKING AT GHAZIPUR, GUT NO 1, TALUKA PAITHAN DIST AURANGABAD.

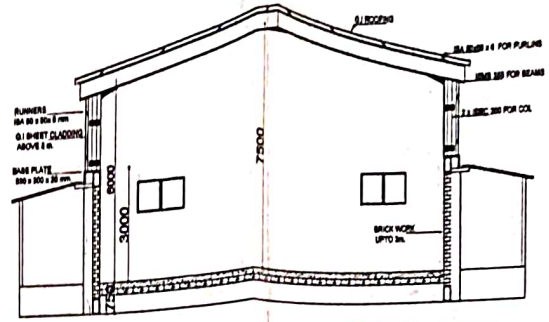
Lead Calculation

| Sr.No | Material | Location | Lead in Km | Pay load Factor | Initial Lead Charges | Final Lead Charges | Net Lead Charges | Unit |
|-------|---|----------------|------------|-----------------|----------------------|--------------------|------------------|------|
| 1 | Rubble/Solling/Metal above 40 mm | | 10.00 | 4.70 | 0.00 | 366.82 | 366.82 | Cum |
| 2 | Metal Below 40 mm | | 10.00 | 5.75 | 0.00 | 299.83 | 299.83 | Cum |
| 3 | Sand | Godavari River | 5.00 | 5.75 | 0.00 | 237.12 | 237.12 | Cum |
| 4 | Cement(Within 5 kms lead) | Local | 7.00 | 10.00 | 0.00 | 174.55 | 174.55 | MT |
| 5 | Steel | | 7.00 | 10.00 | 0.00 | 174.55 | 174.55 | MT |
| 6 | Brick | | 0.00 | 3500.00 | 0.00 | 0.00 | 0.00 | Nos |
| 7 | Hard/Soft Murrum | Local | 5.00 | 6.00 | 0.00 | 220.06 | 220.06 | Cum |
| 8 | Conveying Excavated material upto lead of 5 kms | | 2.00 | 6.00 | 0.00 | 178.13 | 178.13 | Cum |

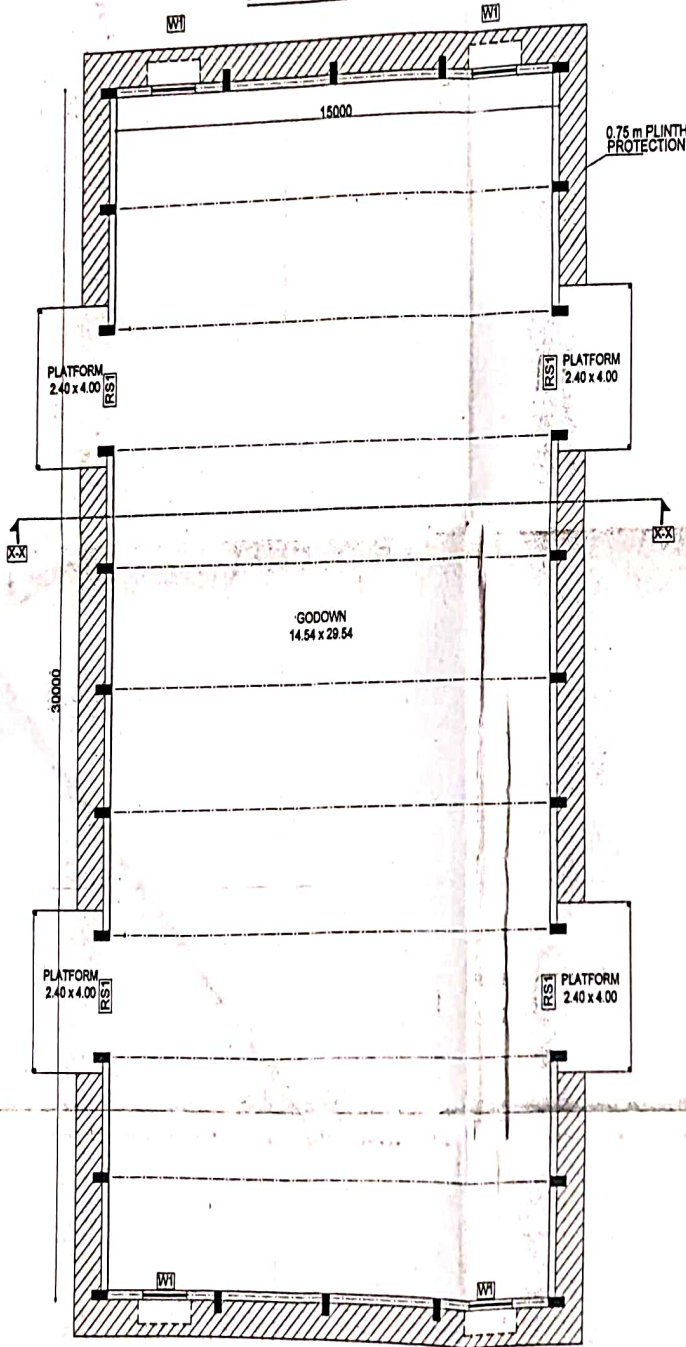




ELEVATION



SECTION X-X



PLAN

SCHEDULE OF OPENING

- | | |
|------------------------------|-------------|
| 1. W1 STEEL/ALUMINIUM WINDOW | 1200 X 1200 |
| 2. RS1 ROLLING SHUTTER | 3000 X 2400 |

DETAILS OF R.C.C MEMBER

- M-20 GRADE CONCRETE AND FE500 STEEL 1200 X 1200
- FOOTING SIZE 1500 X 1200 X 400 & 1200 X 1200 X 400.
- COLUMN SIZE 300 X 530 & 230 X 480.
- ALL BEAMS 230 X 380.

NOTES

- M-20 CONG AND Fe-500 STEEL.
- LAPPING OF TOP BARS AT LH FROM SUPPORT
- EXT. TOP UP TO 0.25 x L FROM SUPPORT
- COVER BEAMS 25 mm SLAB-15 mm
- ALL TOP AND BOTTOM BAR BEND IN L SHAPE AS PER DRAWING NO DUCTO1 AT ENG SUPPORT
- ALL DIMENSION IN mm
- MIN LAP LENGTH AND ANCHOR LENGTH AS MAIN BAR AS PER DRAWING NO DUCTO1
- TOP OF THE ALL BEAMS SHOULD BE KEPT AT ONE LEVEL OTHER WISE SPECIFIED.
- NOT RESPONSIBLE FOR SUPERVISION & O.C
- PLACING OF REINFORCEMENT SHALL BE AS PER TYPICAL DUCTILE DETAILING PROVIDED WITH THIS DRAWING DRAWING NO DUCTO1
- DESIGNED FOR MILD EXPOSURE AND SEISMIC ZONE II.

**NOT FOR EXECUTION
FOR ESTIMATION PURPOSE**

| | | |
|-------------------------------------|----------|-------------------|
| DRW NO: | REVISED: | DRAWING LINE PLAN |
| DESIGN NO: | DATE: | |
| NAME OF WORK: | | |
| CONSTRUCTION OF SHED FOR THE DALMI. | | |
| CLEANING, GRADING AND PACKING AT | | |
| GHAZIPUR GUT NO 1, PATHAN DIST | | |
| AURANGABAD. | | |

