

M.S.R.L.M.  
Navi Disha Mahila Prabhag Sangha, Malvandi(Vairag),Tal.: -Barshi.  
NAME OF WORK :- PROPOSED NEW CONSTRUCTION OF 510 MT Cap WH BLDG.

Annexure /  
Bill of Quantity

| Sr. No. | Items  | Quantity | Units | Rates                   |                    | Total Amounts<br>( In Rs.) |
|---------|--|----------|-------|-------------------------|--------------------|----------------------------|
|         |  |          |       | In Figures<br>( In Rs.) | In Words ( In Rs.) |                            |
|         | <b>SUB WORK I :-Civil work</b>   |          |       |                         |                    |                            |
| 1       | Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means....  | 27.06    | cum   |                         |                    |                            |
| 2       | Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Mean...   | 24.16    | CUM   |                         |                    |                            |
| 3       | Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granitel quartzitel gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)...   | 33.96    | CUM   |                         |                    |                            |
| 4       | Providing and laying Cast 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, Steel centering, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc | 11.83    | cum   |                         |                    |                            |

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|---------|---|----------|-------|----------------------|--------------------|-------------------------|
|         |   |          |       | In Figuars ( In Rs.) | In Words ( In Rs.) |                         |
| 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 drawings or as directed including steel centering, formwork, cover blocks compacting and roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)   | 12.32    | cum   |                      |                    |                         |
| 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 steel 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 fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc).... | 24.21    | cum   |                      |                    |                         |
| 7       | Providing and casting in situ cement concrete M-20 of trap/Granite / quartzite/ gneiss metal for R.C.C. chhajja as per detailed designs and drawings including centering, formwork, cover blocks 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 concrete mixer With natural sand.   | 0.45     | CUM   |                      |                    |                         |
| 8       | Providing & laying in situ cement concrete M-20 of trap metal for R.C.C. work in slabs as per detailed drawing and design as directed including dewatering if necessary centering, formwark, compaction, finishing the formed surface wit   | 0.55     | cum   |                      |                    |                         |
| 9       | Providing and laying in situ cement concrete M-20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4 mm wide and 20 mm deep with necessary refilling with bitumen etc.  | 279.45   | SQM   |                      |                    |                         |
| 10      | 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, linteis pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules, including cutting, bending, hooking the bass, binding with wires or tack welding and supporting as required complete .....  | 3.77     | MT    |                      |                    |                         |

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|---------|--|----------|-------|----------------------|--------------------|-------------------------|
|         |  |          |       | In Figuars ( In Rs.) | In Words ( In Rs.) |                         |
| 11      | 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.   | 15.83    | Cum   |                      |                    |                         |
| 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, watering and scaffolding etc. Complete.  | 65.18    | Cum   |                      |                    |                         |
| 13      | Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm, to 20cm, including watering and compaction etc. complete.....   | 167.67   | CUM   |                      |                    |                         |
| 14      | Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, rammimg, watering etc. Complete   | 60.23    | CUM   |                      |                    |                         |
| 15      | Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete...  | 393.87   | sqm   |                      |                    |                         |
| 16      | 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..... | 559.29   | sqm   |                      |                    |                         |
| 17      | Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete...   | 393.87   | SQM   |                      |                    |                         |
| 18      | Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.   | 559.29   | SQM   |                      |                    |                         |
| 19      | Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete   | 5.31     | MT    |                      |                    |                         |

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|---------|--|----------|-------|----------------------|--------------------|-------------------------|
|         |  |          |       | In Figures ( In Rs.) | In Words ( In Rs.) |                         |
| 20      | Providing and fixing colour coated Zinalume (R) AZ150 ( min 150 gms/sq.mt. Total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 Mpa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) vth COLORBOND (R) steel quality with thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 coat on back surface. Profile sheet shall have nom. 950-1050 mm width and nominal 25-30 mm deep ribs with subtle square fluting in shall be designed for anti-capillary groove. & return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. Fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. Complete. (weight of profile 4.52 kg/sqm)..(As directed by Engineer in charge.)   | 302.16   | SQM   |                      |                    |                         |
| 21      | Providing and fixing of colour coated Zinaluminium R) AZ150 ( min 150 gms/sq.mt. Total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT), Hi-strength steel with min.550 Mpa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 mm, comprising of nominal 25mm exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with sublet square fluting in the five pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove. & return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. Fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. Complete. (weight of profile 4.52 kg/sqm) 301 mm to 600 mm girth (Surface Width)..(As directed by Engineer in charge.) | 6.00     | SQM   |                      |                    |                         |

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|         |   |          |       | In Figuars ( In Rs.) | In Words ( In Rs.) |                         |
| 22      | 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 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. 6248-1979) (Without mechanical gear)... | 4.32     | SQM   |                      |                    |                         |
| 23      | Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing without hot dip zinc coating including fabricating glazing with plain / obscured glass panes and approved type and quality and iron oxidized fixtures and fastening oil paint 2 coats etc. complete.As directed by Engineer in charge.  | 10.32    | SQM   |                      |                    |                         |
| 24      | Providing and fixing 45 cm wide mild steel ladder of 40mm x 6 mm mild steel flat stringers and steps of 18 mm dia. mild steel bar for water tank including fixing it in (1:2:4) M-15 cement concrete block 60cm x 30cm x 30cm and painting the ladder complete.(Anti Corossive Paint)   | 6.00     | Rmts  |                      |                    |                         |
| 25      | Providing and fixing wind oppareted tarbo S. S. ventiletar systim (24 inch dia.) over exsiting roof including cutting of sheet ,propar fixing in position to true line & level with all fixtures & fastning, providing 0.8mm thick FRP sheet for covering area between roof and fan so as to provide waterfoof joints with approved water proffing compound making good the roof surface including cleaning etc. complete (General application for all types of roofs for ventilation & day light parpose at terrace [As directed by Engineer in charge]. (Jalgaon D.S.R.304 /123)  | 4.00     | Nos   |                      |                    |                         |
| 26      | Providing pre-constructional Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrates of 0.5 percent of Hephoclore per square meter of surface   | 279.45   | Sq.m  |                      |                    |                         |
|         | <b>Electrical Works</b>   |          |       |                      |                    |                         |
| 27      | Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire, in HMS PVC conduit min. 20mm dia.CSR 2019-20 Item No 1-6-2 Additional specification No: WG-MA/PC.  | 28.00    | Rmt   |                      |                    |                         |

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|         |   |          |       | In Figures ( In Rs.) | In Words ( In Rs.) |                         |
| 28      | Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia.CSR 2019-20 Item No 1-6-4 Additional specification No: WG-MA/PC.   | 28.00    | Rmt   |                      |                    |                         |
| 29      | Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm FRLSH PVC copper wire in HMS PVC conduit min. 20mm dia,CSR 2019-20 Item No 1-6-6 Additional specification No: WG-MA/PC.   | 4.00     | Rmt   |                      |                    |                         |
| 30      | Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box.CSR2019-20 Item No 1-7-7   | 3.00     | Each  |                      |                    |                         |
| 31      | Supplying and erecting hylam sheet/ ebonite sheet 3 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete. CSR 2019-20 Item No 6-1-9  | 7.00     | kg    |                      |                    |                         |
| 32      | Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) CSR2019-20 Item No 5-4-1Additional specification no. SW-SWR/MCBDB  | 2.00     | Each  |                      |                    |                         |
| 33      | Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board. CSR 2019-20 Item No 5-3-17 Additional specification No. SW-SWR/MCB   | 2.00     | Each  |                      |                    |                         |
| 34      | Supplying, erecting & marking DPMCB 6 A to 32 A B- series (for lighting) in provided distribution board. CSR 2019-20 Item No 5-3-7 Additional specification No. SWSWR/ MCB  | 2.00     | Each  |                      |                    |                         |
| 35      | Supplying & erecting conventional spike Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results. CSR 2019-20 Item No 9-1-3 Additional specification No. EA-EP | 1.00     | Each  |                      |                    |                         |
| 36      | Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe. CSR 2019-20 Item NO 7-1-30 Additional specification No CB-LT/AL            | 20.00    | Rmt   |                      |                    |                         |
| 37      | Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR 2019-20 Item No 7-6-10   | 20.00    | Rmt   |                      |                    |                         |
| 38      | Supplying & erecting Siemens type brass cable glands for 4 core 35 sq. mm./3 core 50 sq. mm. for XLPE armoured cable. CSR 2019-20 Item No 7-7-4 Additional specification No. CB-GL  | 2.00     | Each  |                      |                    |                         |
| 39      | Supplying & erecting crimping type copper lugs for cable 25 sq. mm. complete. CSR 2019-20 Item No 7-9-2 Additional specification No. CB-CL/CU   | 3.00     | Each  |                      |                    |                         |

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| 40      | Supplying and erecting single pole and neutral distribution board (SPNDB) surface/flush mounted with 2 ways for incoming and 2 ways for outgoing SPMCBs on iron/ GI frame. CSR 2019-20 Item No 5-4-14 Additional specification No. SW-SWR/MCBDB   | 1.00     | Each  |                      |                    |                         |
| 41      | Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete .CSR 2019-20 Item No 2-5-4 Additional specification No . FGODF/ FLS2.   | 2.00     | Each  |                      |                    |                         |
| 42      | Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads. CSR 2019-20 Item No 2-9-2 Additional specification No. FG-BKT/BPC   | 2.00     | Each  |                      |                    |                         |
| 43      | Providing and fixing lioghtening conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25mm dia. 1.2 mm thick with multiple points head 1.2 mt. long ( Heavy Duty) welded or clamped to G.I. pipe pole B grade 50 mm diaof required length with M.S. round bnase plate 25 Cm diam and 10mm thick at bottom embeded in cement concrete 1:3:6 dfoundation of size 45 cm diam x 45 cm Height and providing earthing with copper earth plate of size 60 x 60 x 0.3 cms with cadmium plated nut bolts to fix earthing strip burried in specially prepared earth pits 1.5 metre below ground level with 40 kg charcoal and salt with altemate layers of charcoal and salt and G.I.pipe 40mm dia 2 meter length burried in earthe upto earthling plate remining portion above ground level for watering and refilling comcpete Note- Copper strip fropm lightning conductor is not considered in this item. CSR 2020-21 Item No 44.18 Additional Spec No:BDW 1 pAGE No 581 | 1.00     | nos   |                      |                    |                         |

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|---------|--|----------|---------|----------------------|--------------------|-------------------------|
|         |  |          |         | In Figures ( In Rs.) | In Words ( In Rs.) |                         |
| 44      | Providing and fixing copper strip 25mm wide and 3mm thick for lightening conductor including fixing with screws required scaffolding etc.complete Note- Lightning conductor and earthinif pits is not considered in this item. CSR 2020-21 Item No 44.19 Additional Spec No :BDW 1 Page No 581 & As directed by Engineer in Charge | 2.00     | Rmt     |                      |                    |                         |
|         | <a href="#">Lab Testings</a>   |          |         |                      |                    |                         |
| 45      | Fineness, Standard Consistency, Setting Time (Initial & Final ), Compressive strength, Soundness   | 1.00     | No.     |                      |                    |                         |
| 46      | Concrete M10 Grade i)Concrete cube compressive strength (Set of 3 Cubes)   | 6.00     | cum     |                      |                    |                         |
| 47      | Concrete M20 Grade i)Mix Design with all tests on basic materials  | 1.00     | No.     |                      |                    |                         |
| 48      | ii)Concrete cube compressive strength (Set of 3 Cubes)   | 4        | No.     |                      |                    |                         |
| 49      | Crushed metal for concretei)Water absorption, Specific gravity,Impact value,Crushing value   | 1.00     | No.     |                      |                    |                         |
| 50      | Bricks:- Crushing value, Water absorption, & Specific Gravity  | 1.00     | No.     |                      |                    |                         |
| 51      | TMT Steel Bar :-Tensile strength ,Yield stress, ultimate tensile stress, %elongation, weight per running meter,Bend/Rebend test.(Set of 3 Bars)  | 1.00     | No.     |                      |                    |                         |
| 52      | Sand :-Fineness Modulus, silt & clay content.  | 1.00     | No.     |                      |                    |                         |
| 53      | Murum :-i)Plasticity Index   | 1.00     | No.     |                      |                    |                         |
| 54      | Murum :-ii) Field Density of compacted layer   | 1.00     | No.     |                      |                    |                         |
| 55      | <a href="#">Royalty Charges</a>  | 486.27   | cum     |                      |                    |                         |
| 56      | Management Strategies and Implementation Plan (MSIP) to manage the Environmental, Social, Health and Safety (ESHS) risks and ESHS Code of ConductManagement Strategies and Implementation Plan (MSIP) to manage the Environmental, Social, Health and Safety (ESHS) risks and ESHS Code of Conduct                                 |          | Lum Sum |                      |                    |                         |
|         |  |          |         |                      |                    | Total Cost Of Works Rs. |

We agree to execute the works in accordance with the approved drawings and technical specifications at a total fixed contract price of Rs.....(amount in figures)

(Rs..... amount in words).

Notes:

- 1) Items for which no rate or price has been entered in will not be paid for when executed and shall be deemed covered by the other rates and prices in the bill of quantities.
- 2) Where there is discrepancy between the unit rate and line items total resulting from multiplying the unit rate by quantity, the unit rate quoted shall govern.
- 3) When there is discrepancy between the rate in figures and words, the rates in words will govern.

Signature of Contractors