

BILL OF QUANTITIES

| SL NO | ITEM DESCRIPTION | UNIT | QNTY | RATE | AMOUNT |
|----------|---|------|------|------|--------|
| | ANNEXURE - I | | | | |
| | Piping and plumbing Work | | | | |
| A | Drawing and details. | | | | |
| I | Preparation of working drawing in Autocad, according to site condition showing all detail of collection pits, piping routing, connections, attachment, sanitary fittings, fixtures etc. in line with existing drawing and structure. Submitting the same for approval from OPGC . | L.S | 1 | | |
| B | SURFACE DRAINAGE | | | | |
| I | (A). Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 20\0 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design. (B). Inside size 120x90 cm and 300 cm deep including C.I. cover with frame (medium duty) 500 mm internal diametre, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : | EACH | 4 | | |
| II | Supplying and laying of Hume Pipe of NP3 class 250 mm dia conforming to IS:- 458 at specified elevation and slope including collars jointing with stiff mix of 1:2 concrete, testing of joints. | RMT | 120 | | |
| III | Providing ,Collecting,lifting ,shifting ,conveying,supplying and filling sand in different location at plant including cost, conveyance, royalty, of all materials, T&P and labour charges etc. complete as per direction of Engineer-in-charge. | CUM | 50 | | |
| IV | Earth work for ordinary soil or hard soil & gravel soil in foundation,trenches etc. including dressing of sides and ramming of bed,shoring,shuttering and pumping of water if required as per direction of EIC . | CUM | 351 | | |
| V | Back filling in foundation with excavated materials in layers including watering & ramming with rammers including all cost of labour,T&P, taxes etc. complete as per direction of Engineer-in-charge. | CUM | 300 | | |
| c | PIPING WORKS | | | | |
| I | Supplying of cpvc/upvc heavy duty of Supreme make or equivalent of various size with all attachments and fixtures for water supply within the Power House Building at identified level and position to nearest outlet position. Necessary bib cock stop of cera / hindware shall be inclusive in the rate. The rate should include chase cutting of brickwork, concrete etc, for fixing the piping, testing and finishing to good with 1:2:4 concrete. | | | | |
| a | 15NB | RMT | 24 | | |
| b | 20NB | RMT | 120 | | |
| c | 25NB | RMT | 85 | | |
| d | 40NB | RMT | 220 | | |
| e | 50NB | RMT | 130 | | |
| II | Fixing of cpvc/upvc heavy duty of Supreme make or equivalent of various size with all attachments and fixtures for water supply within the Power House Building at identified level and position to nearest outlet position. Necessary bib cock stop of cera / hindware shall be inclusive in the rate. The rate should include chase cutting of brickwork, concrete etc, for fixing the piping, testing and finishing to good with 1:2:4 concrete. | | | | |
| a | 15NB | RMT | 24 | | |
| b | 20NB | RMT | 120 | | |
| c | 25NB | RMT | 85 | | |
| d | 40NB | RMT | 220 | | |
| e | 50NB | RMT | 130 | | |
| III | UPVC pipes : 75 mm Dia | | | | |
| | Supplying, fitting & fixing UPVC pipes of Supreme make or equivalent and fittings conforming to I.S. 13592-1992 with all necessary clamps, nails etc. including making holes in the walls, floor etc. and cutting trenches etc. in any floor through masonry/ concrete, mending good damages including vents and jointing & jointing materials (spun yarn, valamoid, bitumen, M-seal etc.) complete. The rate should include fittings like single branch equal, double branch equal bend with door offsets, shoe head, tees etc. and similar specials as required for smooth commissioning of system as per drawing & design for Soil pipe line. | | | | |

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|--|--|------|-------|------|--------|
| a | Supply & Jointing | RMT | 305 | | |
| b | Fixing pvc fabricated saddle pieces | EACH | 80 | | |
| IV | UPVC pipes : 110 mm Dia | | | | |
| | Supplying, fitting & fixing UPVC pipes of Supreme make and fittings conforming to I.S. 13592-1992 with all necessary clamps, nails etc. including making holes in the walls, floor etc. and cutting trenches etc. in any floor through masonry/ concrete, mending good damages including jointing, vents & jointing materials (spun yarn, valamoid, bitumen, M-seal etc.) complete. The rate should include fittings like single branch equal, double branch equal bend with door offsets, shoe head, tees etc. and similar specials as required for smooth commissioning of system as per drawing for Waste water pipe line. | | | | |
| a | Supply & Jointing | RMT | 235 | | |
| b | Fixing pvc fabricated saddle pieces | EACH | 70 | | |
| V | UPVC pipes : 40 mm Dia | | | | |
| | Supplying, fitting & fixing UPVC/cpvc pipes of Supreme make and fittings conforming to I.S. 13592-1992 with all necessary clamps, nails etc. including making holes in the walls, floor etc. and cutting trenches etc. in any floor through masonry/ concrete, mending good damages including jointing, vents. & jointing materials (spun yarn, valamoid, bitumen, M-seal etc.) complete. The rate should include fittings like single branch equal, double branch equal bend with door offsets, shoe head, tees etc. and similar specials as required for smooth commissioning of system as per drawing for water pipeline (15 mm) and Waste pipe line (40 mm) at battery room located at EL(+) 8.5m. | | | | |
| a | 40mm dia | RMT | 90 | | |
| VI | PVC connection pipe: Providing and fixing unplasticised PVC connection pipe with brass unions 45cm length 50/40mm nominal bore. | NO'S | 15 | | |
| ANNEXURE - II | | | | | |
| A.Shifting and Fixing of Owner Supplied Sanitary Items :- | | | | | |
| 1 | Shifting, Lifting, fixing of White vitreous China wash basin (600x450) with RS and CI brackets painted white, 15mm chromium plated brass hot and cold faucets with nylon washer, chromium plated brass chain with rubber plug 32 mm chromium plated brass bottle trap and waste of standard pattern, 32 mm dia chromium plated brass trap unions, plastic connections pipes with chromium plated B7nuts making good the walls where required etc. to supply water at any level, height and position as per approved drawing. (Rate should be inclusive of provision all adhesive, Teflon tapes, transporting, storage of materials, lifting, shifting, abiding all safety norms, fixing and finishing good to walls and complete in all respect as per EIC) | NO | 8 | | |
| 2 | Shifting, Lifting, fixing of White vitreous China wash basin(oval shaped)of approved make on RCC/ granite counter with RS and CI brackets painted white, 15mm chromium plated brass hot and cold faucets with nylon washer, chromium plated brass chain with rubber plug 32 mm chromium plated brass bottle trap and waste of standard pattern, 32 mm dia chromium plated brass trap unions, plastic connections pipes with chromium plated nuts making good the walls where required etc. to supply water at any level, height and position as per approved drawing. (Rate should be inclusive of provision all adhesive, Teflon tapes, transporting, storage of materials, lifting, shifting, abiding all safety norms, cutting, fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 7 | | |
| 3 | Shifting, Lifting, fixing of Flat back glazed vitreous china urinals of size 440x265x355mm with photo voltaic control flushing system as per IS 2556 (part 6 section 1) with flush pipes lead pipes, gratings, traps and necessary CP fittings etc, complete in all respect at any level, height and position as per approved drawing. (Rate should be inclusive of provision all adhesive, Teflon tapes, transporting, storage of materials, lifting, shifting, abiding all safety norms, cutting, fixing and finishing good to walls and complete in as per respect as per EIC). | NO | 12 | | |
| 4 | Shifting, lifting, fixing of Stone/ porcelain coloured/ white slab in urinal partitions at site of size 675x325x85mm all complete. (Rate should include cutting, fixing with mortar/ concrete, provision all adhesive, Teflon tapes, transporting, storage of materials, lifting, shifting, abiding all safety norms, cutting, fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 12.00 | | |

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|-------|--|------|-------|------|--------|
| 5 | Shifting , lifting , fixing of SS/CP liquid soap container (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 10.00 | | |
| 6 | Shifting , lifting , fixing CP soap holder mounted with CP screw etc. (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 8.00 | | |
| 7 | Shifting , lifting, fixing SS toilet paper holder (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 10.00 | | |
| 8 | Shifting , lifting,fixing White /colouredfloor mounted EWC as per Is 2556 with siphon open front solid plastic seat and cover low level12.5 litre flushing cistern(same color as WC) and cistern fittings, nuts, bolts and gasket etc. complete and all attachment, piping, fixtures complete in all respect at any level, height and positioning including cutting and making good of the walls and floors as per approved drawing. (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 9 | | |
| 9 | Shifting , lifting , fixing White wall mounted EWC as per Is 2556 with siphon open front solid plastic seat and cover low level12.5 litre flushing cistern(same color as WC) and cistern fittings, nuts, bolts and gasket etc. complete and all attachment, piping ,fixtures complete in all respect at any level , height and positioning including cutting and making good for the walls and floors as per approved drawing. (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 1 | | |
| 10 | Shifting , lifting , fixing Colored/ white IWC (Orissa type) (580x440) as per Is 2556 part 3 with all fittings including foot rest s low level 12.5 ltrs., PVC flushing cistern with valve less fittings, necessary CP connections etc. (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to floor and complete in as per respect as per EIC) | NO | 3 | | |
| 11 | Shifting , lifting , fixing 610x453x6mm mirror. (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 15 | | |
| 12 | Shifting , lifting , fixing 610x127x6 thick clear glass with CP guard rails and mounted on CP brackets. (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 15 | | |
| 13 | Shifting , lifting , fixing Water cooler of 80 litre cooling capacity complete in all respect. (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 1 | | |
| 14 | Shifting, lifting , fixing 25 mm diameter Stainless steel towel rail (600x25mm), (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC). | NO | 15 | | |
| 15 | Shifting , lifting , fixing Stainless Steel Pantry sink with integrated drain board as per IS 13983 of size 915x460x178m with C.I. brackets and stainless steel chain with rubber plug 40mm, CP brass waste trap with necessary union complete including painting with fittings , (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 1 | | |
| 16 | Shifting , lifting , fixing Chromium plated shower rose with 15 or 20 inlet . (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 1 | | |

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| 17 | Shifting ,lifting , fixing of CI floor traps and urinal trap with jalli and finishing good to floors (rate should be inclusive of providing of white cement) (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 32 | | |
| 18 | Engaging unskilled manpower for Material lifting and shifting atvarious elevations of power house building And also LOADING , UNLOADING from store location to job site and to attend works at disposal location to the designated area within 2kms of the plant premises as per instructions of Engineer in charge including providing necessary tools, PPE, satutory requirements etc., | MND | 625 | | |
| 19 | Supply of tractor of 2.5 cum trailer capacity with driver helper & fuel for safe transporting the materials from owner's store/ godown ,transportation of the same to required location /job site lifting & shifting at various elevations of Power house Building also providing security to the material. | Hours | 480 | | |
| PART - B Supply and Fixing of Sanitary Items | | | | | |
| 1 | Supplying and fixing of pillar tap of Jaquar make for sink and wash basin with all attachment and fixtures etc. to supply water at any level, height and position as per approved drawing. Required bib cock and stop cock of jaquar make shall be inclusive in the rate. (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 18 | | |
| 2 | Providing and fixing PVC waste pipe for sink or wash basin including PVC waste fitting complete: Flexible pipe 32mm dia(Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 18 | | |
| 3 | Providing and fixing PTMT Bottle Trap for Wash basin and sink. (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 18 | | |
| 4 | Providing, supply and fixing of health faucet with angular stop cock etc. to wall and finishing the same with white cement, adhesive, teflon tapes, jute, CP screws etc. Good to walls and free from leakages. (Rate should include cutting, fixing with mortar/ concrete ,provision all adhesive , Teflon tapes ,transporting ,storage of materials , lifting , shifting ,abiding all safety norms, cutting , fixing and finishing good to walls and complete in as per respect as per EIC) | NO | 12 | | |