

Schedule - B

Construction of Scientist Rest Rooms at Devasthal(Jadapani) Tehsial-Dhari, Distt-Nainital (Uttarakhand).

Estimated cost :

Tender cost:

Earnest money :

Allowed Time:

| S.N. | Description | Unit | Qty | Rates | | Amount |
|----------|---|---------|------|--------|----------|--------|
| | | | | In no. | In words | |
| 1 | Earthwork | | | | | |
| 1.1 | Earth work. in excavation over areas (exceeding 30 em' in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, for all reads; Within the campus and lift upto 1.5m; disposed earth; to be levelled and neatly dressed. | | | | | |
| a) | All kinds of soil | Cum | 149 | | | |
| b) | Ordinary Rock | Cum | 118 | | | |
| 1.2 | Filling available excavated earth (excluding rock) in: trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each, deposited layer by ramming and watering, All lead: and lift up to 1.5m. | Cum | 267 | | | |
| 1.3 | Extra for every additional lift of 1,5 m or part thereof in | | | | | |
| a) | All kinds of soil | Cum | 36 | | | |
| b) | Ordinary Rock | Cum | 30 | | | |
| 1.4 | Supplying and filling in piinth with sand under floor including, watering, ramming consolidating and, dressing complete | Cum | 18.5 | | | |
| 1.5 | Supply and stacking of good earth including royalty and carriage upto site all leads. (earth measured In stack will be reduced by 20%.for payment) | Cum | 148 | | | |
| 2 | concrete work | | | | | |
| 2.1 | Providing and laying in position cement concrete ofl specified grade excluding the cost of centering and shuttering - up to plinth level. | | | | | |
| a) | 1:4:8 (1Cement:4 coarse sand : 8 graded stone aggregate 40 mm nominal size) | Cum | 30 | | | |
| b) | 1:5:10 (1 Cement: 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) | Cum | 12.5 | | | |
| 2.2 | Providing and laying damp-proof course 40mm thick with cement concrete 1: 2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) in horizontal / vertical surface | Sqm | 13 | | | |
| 2.3 | Extra for providing and mixing' water proofing material in cement concrete work in the proportion recommended by the manufacturers. (Impermo. | 50 kg b | 3.5 | | | |

| | | | | | | |
|----------------------|---|-----|-------|--|--|--|
| 2.4 | Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface - with brushes and finally with a piece of cloth lightly soaked in kerosene oil | Sqm | 13 | | | |
| Subhead Total | | | | | | |
| 3 | R. C. C. Work | | | | | |
| 3.1 | Providing and laying in position machine batched, machine mixed and machine vibrated design mix concrete of specified grade for reinforced concrete structural elements, excluding the cost of centring, shuttering, finishing and reinforcement | | | | | |
| | a) All work up to plinth level | Cum | 34 | | | |
| | b) All work from plinth level upto floor V level | | | | | |
| | i) Walls, columns, pillars, posts and struts | Cum | 20 | | | |
| | ii) Beams, plinth beams, girders, bressumers, cantilevers, suspended floors lintels roofs and staircases including spiral staircases, shelves etc. | Cum | 60 | | | |
| 3.2 | Add or deduct for providing richer or leaner mixes respectively at all floor level. | | | | | |
| | a) Providing M - 25 grade RCC instead of M - 20 grade RCC | Cum | 94 | | | |
| | b) Providing M - 30, grade RCC instead of M - 20 grade, RCC | Cum | 20 | | | |
| 3.3 | Centring and shuttering including strutting, propping etc. and removal of form for: | | | | | |
| | a). Foundations, footings, bases of columns etc. for mass concrete | Sqm | 45 | | | |
| | b) Suspended floors, including inclined roofs, landings, balconies and access platform | Sqm | 155 | | | |
| | c) Lintels, beams, plinth beams, girders, bressumers and cantilevers | Sqm | 230 | | | |
| | d) Columns, Pillars, Piers, Abutments, Posts | Sqm | 238 | | | |
| | e) Stairs, (excluding landings) except spiral- | Sqm | 50 | | | |
| 3.4 | Reinforcement for R,C,C work including straightening, cutting, banding, placing in position and binding all complete | | | | | |
| | Thermo mechanically treated bars | Kg | 17000 | | | |
| Subhead Total | | | | | | |
| 4 | Brick work | | | | | |
| 4.1 | Brick work with bricks of class designation 75 foundation and plinth in in super structure above plinth upto floor V level over cement mortar 1: 6 (1 | Cum | 40 | | | |
| Subhead Total | | | | | | |
| 5 | Stone Work | | | | | |

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|-----|--|-----|------|--|--|--|
| 5.1 | 25 mm thick Kota stone shelves (Semi polished) fixed' in walls in cement mortar 1: 3 (1 cement : 3 coarsesand) including finishing complete. | Sqm | 13 | | | |
| 5.2 | Random rubble masonry with hard stone in foundation and plinth including levelling with cement concrete 1: 6 : 12 (1 cement: 6 coarse sand: 12 graded stone aggregate 20 mm nominal size) at plinth level with: | | | | | |
| | Cement mortar 1:6 (1 cement:6 Course sand) | Cum | 33 | | | |
| 5.3 | Extra for random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including levelling up with cement concrete 1:6: 12 (1 cement: 6 coarse sand: 12 graded stone aggregate 20 mm nominal size) at window sills cei | Cum | 20 | | | |
| | Subhead Total | | | | | |
| 6 | Wood Work / Aluminum Work | | | | | |
| 6.1 | Providing wood work in frames of doors, windows,; clerestory windows and other frames, wrought framed and fix in position | | | | | |
| | a) Second class teak wood | Cum | 2 | | | |
| | b) Kiln seasoned and chemically treated hallock wood | Cum | 2 | | | |
| 6.2 | Providing and fixing wooden Sub frame of hollock; wood for doors, windows, ventilators and partitions, fixed with rawl plugs and screws or with fixing clips, or: with expansion hold fastners including necessary: filling up of gaps, all complete as per arch | Cum | 0.5 | | | |
| 6.3 | Providing and fixing paneled or paneled and glazed shutters for doors, windows and clerestory windows' including ISI mark ed black inameled butt hinges with necessary screw excluding, paneling which will be: paid for separately | | | | | |
| | a) 40 mm thick | | | | | |
| | l) Second class teak wood | Sqm | 22.5 | | | |
| 6.4 | Providing and fixing 35 mm thick glazed shutters for doors, windows and clerestory windows using 10. Kg/square meter (4mm thick) glass panes including ISI marked M .S. butt hinges with necessary screws and cutting rebate where ever required as per archite | | | | | |
| | .a) Second class teak wood | Sqm | 35 | | | |
| 6.5 | Providing and fixing 35 mm thick wire gauze shutters using galvanized MS wire gauze of average width of aperture 1.4mm with wire of dia 0.63 mm for doors, windows and clerestory windows including IS1 marked MS. butt 11inges wjth necessary screws and cutt | | | | | |
| | .a) Second class teak wood | Sqm | 34 | | | |

| | | | | | | |
|------|--|-------|----|--|--|--|
| 6.6 | Providing and fixing flat pressed 12 mm thick 3 layer Bamboo ply board medium density like eco board etc. or graded wood particle board like Bhutan Board, frames to be paid for separately. | Sqm | 13 | | | |
| 6.7 | Providing and fixing IS:3564 marked aluminium die cast body tubular type universal hydraulic door closer, Hardwyn make (classic queen) or Everite with necessary accessories all screws etc. | Each | 6 | | | |
| 6.8 | Providing and fixing aluminium sliding door bolts anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete: | | | | | |
| | 300x16mm | Each | 6 | | | |
| 6.9 | Providing and fixing aluminium handles anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | | |
| | .a) 300 x 10 mm | Each | 4 | | | |
| | b) 250 x 10mm | Each | 20 | | | |
| | .c) 150 x 10 mm | Each | 84 | | | |
| | b) 100 x 10mm | Each | 24 | | | |
| 6.10 | Providing and fixing aluminium handles anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | | |
| | a) 125mm . | Each | 46 | | | |
| | b) 100mm | Each | 50 | | | |
| 6.11 | Providing and fixing aluminium hanging floor door stopper anodised (anodic coating not less than grade AC 10 as per IS ; 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. | | | | | |
| | Twin rubber stopper | Each | 23 | | | |
| 6.12 | Providing and fixing aluminium casement. stays anodised (anodic coating not less than grade AC 10 as per IS ; 1868) transparent or dyed to required colour and shade with necessary screws etc. complete | Each | 42 | | | |
| 6.13 | Providing and fixing bright finished brass night latch including necessary screws etc. complete | Each | 5 | | | |
| 6.14 | Providing and fixing bright finished brass 100mm mortice latch and lock with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS: 1868) aluminium lever handles with necessary screws etc. complete (best make | | | | | |
| | a) For fixed portion. frames | Each | 4 | | | |
| 6.15 | Providing and fixing plain glass panes on wooden frame including teak wood beading complete in all | | | | | |
| | a) 5 mm thick | Sqm | 5 | | | |
| 6.16 | Providing and fixing wooden moulded beading size 50 mm x 12 mm to door and window / frames with iron. screws, plugs and priming coat on unexposed surface etc. complete | Meter | 78 | | | |

| | | | | | | |
|-----|---|------|-----|--|--|--|
| | Subhead Total | | | | | |
| 7.0 | Flooring | | | | | |
| 7.1 | Precast terrazzo tiles 25 mm/ 23 mm thick with graded marble chips of size upto 12mm laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles Including, rubbing and polishing complete with present | Sqm | 206 | | | |
| 7.2 | Precast terrazzo tiles 25mm{23mm thick with graded marble chips of sizes upto 12mm in. skirting and risers of steps not exceeding 30cm in height on 12mm thick cement plaster 1: 3 (1 cement: 3 coarse sand)- jointed with neat cement | | | | | |
| | medium shade using 50% white cement and 50% ordinary cement | Sqm | 236 | | | |
| 7.3 | Providing and fixing matt finish ceramic tiles confirming to IS : 13753 of minimum thickness of 7.00mm of approved make like KAJARIA, SOMANY, NITCO , ORIENT in flooring and walls over 12mm thick bed of cement mortar 1: 3(1cement: 3coarse sand) and jointi | Sqm | 116 | | | |
| 7.4 | Providing and fixing 18mm thick mirror polished machine cut for kitchen platforms, vanity counters facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 | | | | | |
| | a) :Grgnite stone - black | Sqm | 3 | | | |
| | b) Udaipur green marble | Sqm | 2 | | | |
| 7.5 | Extra for providing edge moulding to 18 mm thick stone counters vanities etc. over the above item including machine polishing to edge to give high gloss finish etc. complete as per design approved by Project Engineer | | | | | |
| | a) :Grgnite stone - black | Sqm | 6.5 | | | |
| | b) Udaipur green marble | Sqm | 16 | | | |
| 7.6 | Extra for providing opening of required size & shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in marble/stone work Including necessary holes for pillar taps etc. including rubbing and polishing of cut edges et | Each | 7 | | | |
| 7.7 | Extra for finishing the side of terrazzo tiles in stair case to give the matching appearance of tiles. | Sqm | 27 | | | |
| | Subhead Total | | | | | |
| 8.0 | Roofing Work | | | | | |
| 8.1 | Providing and laying water proofing treatment in sunken portion horizontal/vertical of WC's, bathroom etc.by applying cement slurry mixed with Armourcrete of m/s. The Structural Water Proofiflg Company Pvt. Ltd. or Tapecrete of M/s. CICO Engg. Service co | | | | | |
| | a) First layer of slurry of cement @ 0,488 kg!sqm mixed with Armourcrete or Tapecrete@0.253kg/sqm. This layer will be allowed 10 air cure for 4 hours | | | | | |

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|-----|---|-------|-----|--|--|--|
| | b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with Armourcrete or Tarecrete @ 0.126kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours | | | | | |
| | 15 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) as a protective layer over the | | | | | |
| | The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions Of pipes and masonry with polymer mixed slurry and, protective layer, of plaster. | Sqm | 350 | | | |
| 8.2 | Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs balconies. terraces etc. consisting of roHowing operations. | | | | | |
| | a) Applying and grouting a Slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming ot IS 2645 over the RCC slab including cleaning the surface before treatment . | | | | | |
| | b) Laying cement concrete using broken bricks/brick bats 25mm to 100mm size with 50% of cement mortar 1 :5: (1 Cement : 5 coarse sand) admixed with proprietary! 1 water proofing compound conforming to IS 2645 over, '20mm thick layer of cement mortar of m | | | | | |
| | c) After two days of proper curing applying second coat of cement slurry admixed with proprietary waten proofing compound confrming to IS : 2645 | | | | | |
| | d) Finishing the surface with 20mm thick jointless cement mortar of mix 1;4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound conforming to IS 2645 and finally finishing the surface: witt\ trowel wit1 neat cement slurry and | | | | | |
| | e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and final test. All above operations shall be done in order and as directed | | | | | |
| | With average thickness of 120mm and minimum thickness at khurra as 65mm | Sqm | 167 | | | |
| 8.3 | Making khurras 45x45cm with average minimum. thickness of 5cm cement concrete 1: 2: 4 (l cement: 2 coarse sand :4 graded stone aggregate of 20mm nominal size) over PVC sheet 1m x 1m x400 micron, finished with 12mm cement plaster 1: 3 (1 cement; 3 coarse s | Each | 6 | | | |
| 8.4 | Providing and fixing UPVC soil waste rainwater (SWR). pipe withnone end plain and other and integrally socketed and provided with square grooves and along with V shaped rubber ring including fittings bend, tees etc. and making good wall and peering wherov | | | | | |
| | a) 110 mm outer diameter | Meter | 27 | | | |

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|-----|--|-------|-----|--|--|--|
| | b)160mm outer diameter | Meter | 115 | | | |
| 8.5 | Providing and fixing MS holder bat clamps of approved: design to C.I or SCI rain water pipes embedded in and including cement concrete blocks 10x10x10cm of 1 :2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) and cost of cutting | | | | | |
| | a) 100 mm diameter | Each | 18 | | | |
| 8.6 | Providing and fixing to the inlet mouth of rain water pipe cast iron grating | | | | | |
| | a) 15 cm diameter and weight/ing not less than 440gm | Each | 6 | | | |
| 8.7 | Providing and fixing colour coated galvanized.troughened (120 GSM) steel sheet 0.63 mm thick T.CT. colour as required with self drilling self tapping, zinc plated screws 5.5 mm dia 25 mm long to wooden batten fixed to RCC roof with EPDM washers.Complete as | Sqm | 241 | | | |
| 8.8 | Providing and fixing colour coated galvanized.troughened (120 GSM) steel sheet 0.63 mm thick plain sheet 0.63 mm thick bend to shape of trough with interlocking arrangement at junction one and fix RCC roof projection with self tapping zinc plated screw F | Sqm | 35 | | | |
| | Subhead Total | | | | | |
| 9.0 | Finishing work | | | | | |
| 9.1 | 12 cm Cement plaster of mix: | | | | | |
| | 1:6 (1 Cement : 6 fine sand) | Sqm | 356 | | | |
| 9.2 | 15 cm cement plaster on the rough side of single or half brick wall of mix : | | | | | |
| | 1:6 (1 Cement : 6 fine sand) | Sqm | 430 | | | |
| | Description | | | | | |
| 9.3 | 15mm cement plaster 1: 3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall. | Sqm | 30 | | | |
| 9.4 | 6mm cement plaster to ceiling of mix; | | | | | |
| | 1: 3 (1 cement: 3 fine sand) | Sqm | 295 | | | |
| 9.5 | White washing with lime to give an even shade: | | | | | |
| | New work (three or more coats) | Sqm | 295 | | | |
| 9.6 | Distemping with dry distemper of approved brand. and manufacture | | | | | |
| | (two or more coats) and of required shade on new work, over and | | | | | |
| | including priming coat of whitening to given an even | Sqm | 86 | | | |
| 9.7 | Applying priming coat: | | | | | |
| | a) With ready mixed pink or grey primer of approved brand and manufacture on wood work | Sqm | 137 | | | |
| 9.8 | Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade | | | | | |

| | | | | | | |
|------|--|-----|-----|--|--|--|
| | Two or more coats on new work manufacture. | Sqm | 137 | | | |
| 9.9 | Two or more coats on new works including a coat of wood filter | | | | | |
| | a) french sprit polish | Sqm | 55 | | | |
| 9.10 | Finishing walls with water proofing cement paint | | | | | |
| | "Snowcem-Plush" of M/s. Snowcem India Ltd, orequivalent of required shade: | | | | | |
| | New work (Two or more coats applied @ 3.84 kg/10 Sqmn) | Sqm | 356 | | | |
| 9.11 | Wall painting two or more coats on new work with acrylic emulsion paint approved brand and: | | | | | |
| | manufacture to give an <i>even shade</i> . | Sqm | 344 | | | |
| | Subhead Total | | | | | |
| 10.0 | Miscellaneous Work | | | | | |
| 10.1 | Providing and fixing cup board shutters with 25mm thick veneered particle board conforming to IS : 3097, marked (Novapan , Ecoboard , Bhutan Board etc.) exterior grade (Grade I) of approved make including IInd class teak wood lipping of 25mm wide x 1 | | | | | |
| | With commercial veneednq on both sides | Sqm | 11 | | | |
| 10.2 | Providing and making plinth protection 50 mm thick or CC 1 :3: 6 (1 cement: 3 coarse sand: 6 graded slone aggregate 20 mm nominal size) over 75 mm bed of dry brick ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand includin | Sqm | 68 | | | |
| | finishing the top smooth. | | | | | |
| | Description | | | | | |
| 10.3 | Rough kota stone 20 mm slab noaring in floors over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab. | Sqm | 20 | | | |
| | Subhead Total | | | | | |
| 11 | Development Work . | | | | | |
| 11.1 | Preparation of Sub-grade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and disposal of surplus earth leadup to 50 Mts. | Sqm | 188 | | | |
| 11.2 | Consolidation of sub-grade with power road roller of 8 to 12 tonne capacity including making good the undulation etc. with earth or query spoils etc. and rerolling the sub-grade. | Sqm | 188 | | | |
| 11.3 | Extra for compaction of earth work in embankment | | | | | |
| | under optimum moisture condltions to give at least | | | | | |
| | 95% of the maximum dry density (proctor density) | Cum | 30 | | | |

| | | | | | | |
|------|---|---------|------|--|--|--|
| 11.4 | Supplying and stacking of graded stone aggregate at site of size range. | | | | | |
| | 63mm to 45 mm | Cum | 20 | | | |
| 11.5 | Laying water bound macadam with specified stone aggregate stone screening and binding materials including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete. | | | | | |
| | Base course with 63 mm to 45 mm size including stone screening 13.2 mm size | Cum | 20 | | | |
| 11.6 | Dry stone pitching 22.5 cm thick. including supply | | | | | |
| | stones and preparing surface complete. | Sqm | 47 | | | |
| 11.7 | Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 3 | | | | | |
| | graded stone aggregate 40 mm nominal size in pavements laid to required slopes and camber in panels as required including consolidation finishing and tamping complete. | Cum | 20 | | | |
| 11.8 | Providing and fixing in position pre-molded joint filler in expansion joint | Per mts | 1400 | | | |
| | Subhead Total | | | | | |
| | | | | | | |
| | (A) SANITARY INSTALLATION | | | | | |
| 1 | Providing and fixing white vitreous china water closet squatting pan (Indian type WC pan) with 100 mm sand cast iron P or Strap, 10 litre low level PVC flushing cistern with manually controlled device (handle liner) conforming to IS 7231 | | | | | |
| | a) Orissa pan WC of size 580)(440 mm with integral type foot rests flush pipe and overflow arrangement. | Each | 1 | | | |
| 2 | Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, with C.P. brass hinges and rubber buffers 10 litre low level flushing cistern with fittings & CL I M.S. brackets, 40mm flush bend, overflow arrangement | | | | | |
| | a) W.C. pan with white solid plastic seat and lid with white vitreous china flushing cistern & C.P. flush bend. | Each | 6 | | | |
| 3 | Providing and fixing white vitreous china counter top wash basin of size 570X450 with C.I./ M.S. brackets, 15 mm C.P. brass single hole hot and cold basin mixer, 32mm C.P. brass waste of standard pattern, including painting of fittings and | Each | 5 | | | |
| 4 | Providing and fixing white vitreous china wash basin with C.I./M.S. brackets, 15 mm c.p. brass pillar taps 32 mm c.P. brass waste of standard pattern including painting of fittings and brackets, cutting and making good the wall wherever | | | | | |
| | a) Flat back wash basin size 550 x 400 mm with a pair of 15 mm cp brass pillar tap | Each | 5 | | | |

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|----|--|------|-----|--|--|--|
| 5 | Providing and fixing stainless steel kitchen sink as per IS 13983 with c.i. brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the wall wherever required. | | | | | |
| | a) 535x460 boel deph 178mm | Each | 1 | | | |
| 6 | Providing and fixing 600X450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and | Each | 6 | | | |
| 7 | Providing and fixing towel rail complete with | | | | | |
| | fixed to wooden cleats with c.p. brass screws. | | | | | |
| | 600x200mm size. | Each | 6 | | | |
| 8 | Providing and fixing CP soap dish fixed to rawl plug of approved design with CP brass screws. | | | | | |
| | a) c.p. brass. | Each | 6 | | | |
| 9 | Providing and fixing toilet paper holder, | | | | | |
| | a) c.p. brass | Each | 101 | | | |
| 10 | Providing and fixing CP brcs twin coat hooks fixed to wooden cleats with CP brass screws, hooks or approved equivalent | Each | 6 | | | |
| 11 | Providing and fixing wall mounting type push-type liquid soap dispenser with 1000 ml bulk volume, with, pump suitable for operation on less than 5 PSI complete in all respects. (DATARICA Economaster; Black Model) | Each | 6 | | | |
| 12 | Providing and fixing ball valve (brass) of approved quality complete, High or low pressure with 25 mm nominal bore | Each | 2 | | | |
| 13 | Providing and Fixing in position 25 mm diameter mosquito proof coupling of approved municipal | Each | 2 | | | |
| 14 | Providing and fixing C. P. brass long body bib cock of (lproved quality conforming to IS standards and weighting not less than 690 gms. | | | | | |
| | 15 mm dia nominal bore. | Each | 7 | | | |
| 15 | Providing and fixing c.p.brass bib cock of approved Quality confirming to IS 8931 standards and weighing not less than 810 gms | | | | | |
| | 15 mm dia nominal bore. | Each | 6 | | | |
| 16 | Providing and fixing c.p.brass angle valve for basin mixture and geyser points of approved Quality conforming to IS :8931. | | | | | |
| | 15 mm dia nominal bore. | Each | 18 | | | |
| 17 | Providing and fixing C.P. brass concealed stop approved .quality for shower assembly complete In all respect. | Each | 24 | | | |
| 18 | Providing and fixing CP brass connection pipe With | | | | | |
| | brass union 45cm length. | | | | | |
| | 15 mm dia nominal bore. | Each | 12 | | | |
| 19 | Providing and fixing shower set RELAXA | Each | 6 | | | |

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|---|---|-------|-----|--|--|--|
| 20 | Providing , fixing, testing and commissioning of storage type electric water heater with automatic thermostatic control electric element; pressure release valve, brackets fixed to expansion fasteners with M.S. nuts and bolts all complete including cutting | | | | | |
| | a) 25 litres capacity | Each | 4 | | | |
| 21 | providing, fixing, testing and commissioning of Twin; Solar panel of 300 litres capacity of TATA or approved equivalent complete in all respects . | Each | 2 | | | |
| 22 | Providing and fixing CP brass bottle trap for wash basin and sink of approved make complete in all respects | | | | | |
| | a) 32 mm dia | Each | 6 | | | |
| 23 | Providing and fixing stainless steel twin coat hook with, CP brass screws | Each | 6 | | | |
| 24 | Providing and fixing CP brass cockroach trap of approved make complete, | Each | 7 | | | |
| Subhead Total (A) | | | | | | |
| (B) SOIL WASTE & RAIN WATER PIPE | | | | | | |
| 1 | Providing and fixing soil, waste and vent pipes | | | | | |
| | a) .100 mm dia centrifugally cast (spun) iron S&S | Meter | 120 | | | |
| 2 | Providing and fixing M.S. holder-bat clamps of approved design to sand cast iron / cast iron (spun) pipe embedded in and including cement concrete blocks 10X10X10 cm of 1 :2:4 mix (1 cement : 2 coarse sand 4 graded stone aggregate 20mm; nominal size) in | | | | | |
| | a) For 100 mm dia pipe. | Each | 6 | | | |
| 3 | Providing and fixing plain bend of required degree | | | | | |
| | a) 100 mm centrifugally cast (spun) iron S&S | Each | 12 | | | |
| 4 | Providing and fixing plain bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete | | | | | |
| | a) 100 mm centrifugally cast (spun) iron S&S | Each | 12 | | | |
| 5 | Providing and fixing heel rest sanitary bend. | | | | | |
| | a) Centrifugally cast (spun) iron. S&S (100 mm dia) | Each | 12 | | | |
| | b) Centrifugally cast (spun) iron. S&S (75 mm dia) | Each | 12 | | | |
| 6 | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete | | | | | |
| | a) 100 x 100 x 100 mm centrifugally cast (spun) iron S&S | Each | 6 | | | |
| 7 | Providing and fixing terminal guard | | | | | |
| | a) 100 mm centrifugally cast (spun) iron S&S | Each | 12 | | | |
| 8 | Providing lead caulked joints to sand cast iron / centrifugally cast. (spun) iron pipes and fittings of diameter | | | | | |
| | a) 100 mm | Each | 110 | | | |

| | | | | | | |
|----|---|------|-----|--|--|--|
| 9 | Providing and fixing MS stays and clamps for sand cast iron centrifugally cast (spun) iron pipes of diameter | | | | | |
| | a) 100 mm | Each | 12 | | | |
| 10 | Providing and fixing sand cast iron trap of self-cleansing design with sand cast screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the | | | | | |
| | a) 100 inlet and 100 mm outlet | Each | 7 | | | |
| 11 | Providing and fixing single equal plain junction of required degree | | | | | |
| | Plain equal tee 100 X 100 X 100 sand cast iron | Each | 6 | | | |
| 12 | Providing and fixing single unequal equal plain junction of required degree | Each | 6 | | | |
| 13 | Providing and fixing stainless steel Jali (grating) with or without hole for waste pipe for floor / Nahani trap. | | | | | |
| | a) 100 mm dia weight not less than 100 qms | Each | 10 | | | |
| 14 | Painting sand cast iron centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of any colour such as chocolate grey, or buff etc, over a coat of primer (of approved quality) for new | | | | | |
| | a) 100 mm diameter pipe | RM | 80 | | | |
| 15 | Providing and fixing cast brass dean out plug with suitable insert keys for opening male threaded joint fixed to G.I.socket complete (cleanout to be flushed with floor finish) | | | | | |
| | a) 100 mm dia | Each | 1 | | | |
| 16 | Providing and fixing flanged deanout plug with M.S.-flanged tail pieces, blind (lang, 6mm dia nut & bolts, gasket and washers fixed to CL Pipe with drip seal, joint complete in all complete including cutting and making good the walls and floor whereve | | | | | |
| | 100 mm dia | Each | 1 | | | |
| 17 | Providing and fixing G.I. Inlet fitting of suitable size! with 2 & 3 nos. G.I. Socket 32 & 40 welded G.I. Pipe complete in all respect | | | | | |
| | a) 100 mm diameter pipe | Each | 137 | | | |
| 18 | Cutting holes upto 30X30cm In walls Including making good the same . | | | | | |
| | With FPS Bricks | Each | 15 | | | |
| 19 | Providing and fixing wall face SCI rain water pipes including filling the joints with spun yarn, soaked in neat cement slurry and cement mortar 1: 2 (1 cement:2 fine sand) | | | | | |
| | a) 100 mm dia | RM | 50 | | | |
| 20 | Providing and fixing floor drain points formed out of 63 mm dia GI elbow, including with 75mm dia Stainless Steel grating with frame embedded in floor, all complete as directed. | Each | 7 | | | |

| | | | | | | |
|------------|---|-------|-----|--|--|--|
| | Subhead Total (B) | | | | | |
| (C) | WATER SUPPLY | | | | | |
| 1 | Providing and fixing of concealed GI pipe complete with GI fittings including chasing and making good extra for | | | | | |
| | a) 15 mm dia. nominal bore | Metre | 100 | | | |
| | b) 20 mm dia. nominal bore | Metre | 50 | | | |
| | c) 25 mm dia. nominal bore | Metre | 50 | | | |
| | d) 32 mm dia, nominal bore | Metre | 10 | | | |
| | e) 40 mm dia, nominal bore | Metre | 10 | | | |
| 3 | Providing and fixing GI pipes complete with GI fittings including tenching and refilling etc. (external work). | | | | | |
| | a) 25 mm dia. nominal bore | Metre | 50 | | | |
| | b) 50 mm dia. nominal bore | Metre | 50 | | | |
| 4 | Painting G.I. pipes and fittings with white paint over a ready | | | | | |
| | mixed priming coat, both of approved Quality for new work. | | | | | |
| | a) 15 mm dia. nominal bore | Metre | 100 | | | |
| | b) 20 mm dia. nominal bore | Metre | 50 | | | |
| | c) 25 mm dia. nominal bore | Metre | 50 | | | |
| | d) 32 mm dia. nominal bore | Metre | 10 | | | |
| | e) 40 mm dia, nominal bore | Metre | 10 | | | |
| 5 | Painting G.I. pipes and fittings with two coats of anti corrosive bitumastic paint of approved quality | | | | | |
| | b) 20 mm dia. nominal bore | Metre | 50 | | | |
| | c) 25 mm dia. nominal bore | Metre | 50 | | | |
| 7 | Constructing masonry chamber 30X30X50cm inside | | | | | |
| | with 75 class designation brick work in cement mortar 1: 5 (1 cement: 5 fine sand) for stop cock, with CI surface box 100x100x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix. | | | | | |
| | a) With F.P.S. brick | Each | 4 | | | |
| 8 | Providing and fixing brass ball valve with C.I. wheel of approved quality (screwed end). | | | | | |
| | a) 15 mm dia. nominal bore | Each | 6 | | | |
| | b) 20 mm dia. nominal bore | Each | 3 | | | |
| | c) 25 mm dia, nominal bore | Each | 2 | | | |

| | | | | | | |
|---|--|------|---|--|--|--|
| 9 | Constructing brick masonry manhole with 75 class designation bricks in cement mortar 1:4 (1 cement: 4 coarse sand), RCC top slab in 1:2:4 mix (1 cement :1 2 coarse sand 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:4 :8 | | | | | |
| | a) Inside size 90 x 80 cm and 45 cm deep including CI cover with frame (light duty) 455 x 610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (wt. of cover 23 kg and wt of frame 15 kg with F.P.S. bricks | Each | 3 | | | |

I/We do hereby tender to execute the **Construction work of Scientist Rest Rooms, Devasthi (Jadapani) Tehsil- Dhari, Distt - Nainital (Uttarakhand)**. during the year 2007. The complete detail of the work has been received by me/us. The NSC/KVP/FDR No----- Dated----- for Rs----- (Rs-----) purchased by me/us from the post offices/bank at ----- as earnest money is being enclosed . I understand that this earnest money may be forfeited to the Director,ARIES.If I/We fail to sign the contract, the form of which I/ We have inspected within the time specified in the notice calling for tenders.

Signature of Tenderer

Full Name

Address

Date