

TENDER

(Tender Ref. No.: JIL-YEW/NIT/2024/105 Dated 10.04.2024)

VOLUME - II : (BOQ)

For

Construction of Toilet and Septic Tank at Cafeteria, km 39 LHS on
Yamuna Expressway.

(Last Date for Submission of Bids: **24.04.2024**)

Issued By

Jaypee Infratech Limited
Sector 128, Noida – 201304
Uttar Pradesh, India



PREAMBLE TO BILL OF QUANTITIES

1. This Bill of Quantities (“BOQ”) shall be read in conjunction with all Volumes of the tender documents such as NIT, ITT & GCC and all other documents as mentioned in the tender documents.
2. Rates shall include the cost of all labour, materials, tools, plants and machinery, equipment, hoists, all form of works, steel scaffoldings, transportation and wastages etc. and testing of materials with Contractor’s testing appliances (as required), all other taxes, duties, levies, royalties, any other statutory obligations, Electricity, water, Contractor’s overheads & profit etc. Only GST shall be paid extra, as applicable.
3. The items of work set out herein which are further detailed in the work order, shall be carried out as per the approved drawings, specifications and directions of the Engineer-in-charge of Jaypee Infratech Limited (hereinafter called as JIL).
4. The Contractor shall be deemed to have studied the specifications and details of work to be completed within the time schedule and to have acquainted itself with the conditions prevailing at Site. The quoted rates shall be applicable for all works in any shape/size/section and design etc.
5. The quantities shown against various items, as provided by JIL, are estimated and provisional and are given to provide a common basis for bidding. The basis of payment will be made against actual measured quantities of work ordered and carried out items of Work as per BOQ. JIL (JAYPEE INFRATECH LIMITED) reserve reserves the right to add/ delete/ alter/ modify/ withdraw any items or part of the item or to reduce or increase any quantity or area to any extent without any limitations. The Contractor shall have no objection to the same. The Contractor shall execute the work/ items/ area/ quantity as per actual and final requirement of the work as per instructions of Engineer-in-charge (EIC) of JIL. The Contractor will be bound to execute these items as per contract rates. JIL will not entertain any claims or damages or part of the profit (which the Contractor might not make due to change in the quantities). No extra claim is entitled on this account.
6. In cases where the specifications given in the Description of the item of work in BOQ are found wanting, the CPWD Specifications-2019 (with up-to-date correction slips), MoRTH & IRC Specifications, shall be followed; and where not specified, specifications of the latest edition of relevant IS codes shall be applicable. In case of any ambiguity in interpretation, JIL’s decision shall be final and binding.
7. The rates and the prices shall hold good for all heights/ depths leads, lifts and levels, working in all conditions including in/under water, liquid mud, foul conditions etc. unless otherwise specifically stated against an item in the BOQ.
8. Rates include all costs for disposal of rubbish or malba etc. (generated / accumulated by the Contractor during the execution of this work) outside the site premises, removal of labour hutment, any temporary structure etc., demobilization from site/any premises provided by JIL. Nothing extra shall be payable on any such account.
9. General directions and descriptions of work are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.
10. All materials samples to be submitted and got approved from JIL before execution of work.
11. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of Work.
12. The method of measurement of completed work for payment shall be in accordance with the Technical Specifications & IS Codes.

Bill Of Quantity (BOQ)

Construction of Toilet and Septic Tank at Cafeteria, km 39 LHS on Yamuna Expressway.

| Item No. | Item Description | UNIT | Quantity | Rate (Rs.) | Amount (Rs) |
|----------|---|------|----------|------------|-------------|
| | | | A | B | C = (A x B) |
| 1 | Earth work excavation in foundations ,Trenches ,Pits, Columns, Footing etc (in all types of soils, Strata up to 1.50m depth from existing ground level) including disposal of excess earth as directed within site up-to a lead of 80 mtrs. | cum | 520 | | |
| 2 | Back filling with available excavated earth free from vegetation in plinth in layers not exceeding 20cm. Profusely watering ramming manually leveling etc. Complete in all respects as directed by the Engineer in-charge (EIC). | cum | 410 | | |
| 3 | Providing and laying machine mixed plain cement concrete in volumetric proportions of 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) in foundation etc. at all levels including side shuttering etc. complete in all respect and as per direction given by Engineer in-charge. | cum | 95 | | |
| 4 | Providing and laying RCC 1:1:2 (1 cement: 1 coarse sand: 2 graded stone aggregate 20 mm nominal size) M-25 in all structural elements etc,as per drawing and direction by EIC. | cum | 90 | | |
| 5 | Providing, centering, shuttering and removal of steel/plywood framework for footing, lintel, column, beam etc. | sqm | 320 | | |
| 6 | Providing,strengthening, cutting, fabricating & placing steel reinforcement as per design and details for RCC (Precast and cast in situ) etc. in all elements including binding the reinforcement with 18 gauge annealed wire for binding the reinforcement of all dia. the rates are inclusive of providing, making & placing of cover block in cement mortar 1:1 under reinforcement as directed including spacers, chairs etc. to keep the bars in position at all levels and height including intercartage of reinforcement bars within area. Reinforcement steel bars Grade -Fe500D, Make-JSW/TATA/SAIL. | kg | 4000 | | |
| 7 | Providing and laying DPC 50mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) over brick wall including side shuttering and edges finished smooth with approved waterproofing compound as directed by the Engineer. | sqm | 30 | | |

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|----------|--|------|----------|------------|-------------|
| | | | A | B | C = (A x B) |
| 8 | Brick work in foundation up-to plinth using approved first class bricks in 1:6 Cement Mortar (1 Cement :6 Coarse sand) including curing etc.for completion of work as directed by the EIC. | cum | 140 | | |
| 9 | Brick work 230mm thick in super structure, using approved first class bricks in 1:6 Cement Mortar (1 Cement :6 Coarse sand) including curing etc. for completion of work as directed by the EIC. | cum | 40 | | |
| 10 | Providing and laying 115mm thick half brick in partition walls above plinth level using cement mortar 1:4 (1 Cement :4 Coarse sand) and including providing and placing 2 each. 6mm dia bars or 25x3mm ms flat at every third course, scaffolding, racking of joints, curing etc complete. | sqm | 130 | | |
| 11 | Providing and laying burn bats of 40mm normal size under floors including side shuttering, ramming and leveling etc. complete as directed by the EIC. | cum | 100 | | |
| 12 | Providing and laying 12 to 15mm thick plaster in cement mortar 1:6 (1 cement: 6 sand - 50% fine sand and 50% coarse sand) including necessary scaffolding, curing etc. at any level. | sqm | 300 | | |
| 13 | Providing , fabrication and erection of M.S. Structure with M.S.Pipe ,angle and gusset plate including primer etc.as per drawing with proper alignment and level. Complete in all respect and as per direction given by Engineer in-charge. Make : JINDAL/TATA/SAIL//APOLLO | kg | 7000 | | |
| 14 | Providing & applying two coats of Birla putty over plastered surface including preparation of the surface even and smooth complete in all respects at any level. | sqm | 300 | | |
| 15 | Providing and applying three coats of Plastic emulsion paint including primer complete in all respect and as per instruction of Engineer in-charge. Make : Asian / Berger/Nerolac. | sqm | 250 | | |
| 16 | Providing and applying two or three coats of Apex paint including primer of approved make and shade complete in all respects at any level. Make : Asian/Berger/Nerolac | sqm | 240 | | |
| 17 | Providing and applying two of Enamel paint of approved brand including preparing of surface etc. complete in all heights as per instruction of EIC. Make - Asian/Berger/Nerolac | sqm | 500 | | |

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|----------|--|-------|----------|------------|-------------|
| | | | A | B | C = (A x B) |
| 18 | Providing & Fixing track deck sheets thickness 0.62 mm(Galvanized sheet) with curved ridge and aluminium screw cum washer of desired sample and color as approved by client.(Make-Essar/Jindal/ Kamdhenu) | sqm | 210 | | |
| 19 | Providing & Laying of approved make wall Tiles (Thickness of tile - 5 mm) and size (200x300)mm in 12-15 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) complete in all respect and as per instruction of Site in-charge. Make : Kajaria/Somany | sqm | 265 | | |
| 20 | Providing and laying of approved make Floor Tiles (Thickness of tile - 8 mm) and size (600x600) mm in 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), complete in all respect and as per instruction given by the Engineer in-charge. Make : Kajaria/Somany | sqm | 170 | | |
| 21 | Providing and fixing 20mm green/cheema granite with polish on cladding /dado/bands in specified sized as per drawing laid over 20 mm avg. thickness of cement mortar 1:3 (1 cement :3 coarse sand) . The item is inclusive of providing and fixing stainless steel. Cramp of adequate size & design fixed in cladding as per design, cutting pockets in brick work & fixing with non shrink grouting materials, pins dash fasteners and fixing grit on back of stone with araldite etc. including filling the joints with white cement with matching pigment, chamfering, making grooves, pointing, etc wherever required scaffolding, curing etc. complete as per drawing or as directed by Engineer in-charge. | sqm | 100 | | |
| 22 | Providing and fixing of 6mm thick Hi-Lux calcium silicate board false ceiling with GI frame work of Channels and ' T ' grid with CSB jointing compound to give seamless finish or tile of same material of size 595x595 mm laid into GI grid 600x600 mm with 24mm wide pre-coated leash and light cutting complete as per drawing. Make- Gyprock/Boral/IGL | sqm | 85 | | |
| 23 | Providing and Fixing of M S door Frame(single rebated, (Door frame - 125x50mm)16 SWG, filled with C C 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) complete as per requirement of site and directed by Engineer In-charge. | metre | 120 | | |

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| | | | A | B | C = (A x B) |
| 24 | Providing and fixing Turbine air ventilator 24" Dia Stainless steel graded 304 complete as per requirement of site and directed by Engineer in-charge. | each | 2 | | |
| 25 | Supply, fixing testing commissioning vitreous china wash basin (550x400)mm size with stainless steel waste assembly, SS bottle trap with extension piece wall flange and rubber for waste collection complete including CI/SS brackets duly painted cutting making good for wall /floor as per requirement and specification Make: Hindware and cat no. 10012 | each | 8 | | |
| 26 | Supply, fixing, testing & commissioning of vitreous china Urinal with stainless steel waste assembly,SS bottle trap with extension piece, wall flange and rubber for waste collection complete including CI/SS brackets duly painted cutting making good for wall/floor as per requirement and specification. Make: Hindware and cat. 60002 | each | 9 | | |
| 27 | Providing and fixing of Looking mirror of size (600x900mm), complete in all respect and as per instruction of Engineer in-charge. Make- Saint gobain/Modi guard | each | 8 | | |
| 28 | Supply, fixing testing commissioning of vitreous china wall mounted EWC with cistern, bolts, nut. CI bracket, sheet cover with hinges etc. complete including cutting and making good as per requirement and specification. (Make- Hindware and cat no. 20028) | each | 10 | | |
| 29 | Supply, fixing testing commissioning of CP basin pillar cock, complete in all respect etc. and as per direction of EIC. Make- Jaquar & cat no.CON-021KN | each | 8 | | |
| 30 | Providing and fixing of 15mm CP Brass angle valve with 450mm long branded hoses with nuts and rubber washer with cp brass wall flange complete including cutting and making good the walls, wherever required. Make- Jaquar. | each | 18 | | |
| 31 | Providing and fixing Two way bib cock (Make- Jaquar & cat no. Chr-041KN). | each | 10 | | |

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| | | | A | B | C = (A x B) |
| 32 | Providing and fixing Soap dispenser with push lever of approved brand complete as per drawing or direction of EIC. Make- Jaquar/Hindware/Cera) | each | 6 | | |
| 33 | Providing and fixing C.P.Jali (5") as per approved sample etc. Complete. Make: Jaquar | each | 27 | | |
| 34 | Providing and fixing PVC Pipe 6kg/Cm ² , having thermal stability for hot and cold water supply including all PVC pipe plain and brass threaded fitting i/c fixing the pipe with clamps at 1 mtr spacing. This includes joints of pipe and fitting with one step PVC solvent cement and testing of joints complete in all respect. Make : Apollo/Supreme/Jindal/Prakash | | | | |
| a | PVC Pipe 75mm dia | metre | 6 | | |
| b | PVC Pipe 100mm dia | metre | 100 | | |
| c | PVC Pipe 160mm dia | metre | 90 | | |
| d | PVC Pipe 200mm dia | metre | 75 | | |
| 35 | Construction of Brick masonry rectangular chamber as per drawing in cement mortar 1:4 (1cement & 4 coarse sand) including foundation concreting 1:4:8 (1cement :4 coarse sand:8 graded stone aggregate 40mm nominal size) and inside plastering 12mm thick with cement mortar 1:3 (1cement :3 coarse sand) finish with floating coat need cement and making channels including cost of centering and shuttering, excavation, back filling & disposal of surplus earth including C.I. Cover (heavy duty) as per design complete. | | | | |
| a | Brick Chamber (300x300x300)mm | each | 10 | | |
| b | Brick Chamber (600x600x750)mm | each | 14 | | |
| 36 | Providing and applying of two coats of black japan paint with polythene wrapping on cold water line. | | | | |
| a | 50mm pipe dia | metre | 200 | | |

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| | | | A | B | C = (A x B) |
| 37 | Supply, fixing, testing and commissioning of GI Pipe(Class-Medium) for cold and flushing supply pipes with pipe complete as per requirement of technical specification with solvent welded GI fitting i.e. Tees, Elbos, Couplers, Unions, Reducers, brushing etc. including fitting connection between CPVC fitting and metal pipe i.e. Brass adapter (both male and female threaded). GI solvent cement conforming to ASTM F-493 with fabricated and subsequently hot dip galvanised clamp/structural steel support as required directed at site including cutting chasing and fixing the same with cement concrete. cement mortar as required including painting the exposed pipes with one coat of desired shade of enamel paint (INTERNAL & EXTERNAL WORK). All termination points for installation of faucets shall have brass fitting complete in all respect or as directed by EIC. Make- JINDAL/APPOLO/TATA | | | | |
| a | 50mm dia | metre | 200 | | |
| 38 | Providing fixing & testing heavy quality zoloto gate valve screwed Art no. 1035 complete in all respect. | | | | |
| a | Gate valve 25mm | each | 10 | | |
| b | Gate valve 50mm | each | 5 | | |
| 39 | Providing and fixing CPVC pipe having thermal stability for hot and cold water supply including all CPVC pipe plain and brass threaded fitting including fixing the pipe with clamp at 1 metre spacing . This includes joints of pipe and fitting with one step CPVC solvent cement and testing of joints complete in all respect. Make : Astral/Kamdhenu/Unique | | | | |
| a | CPVC Pipe 20mm dia | metre | 70 | | |
| b | CPVC Pipe 25mm dia | metre | 25 | | |
| 40 | Providing and fixing ISI marked flush door shutters conforming to IS: 2202(Part I) 35mm thick Flush door shutter including SS hinges, SS tower bold, SS aldrop, SS handle etc. complete as per requirement of site and directed by Engineer in-charge | sqm | 25 | | |

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| | | | A | B | C = (A x B) |
| 41 | Providing & fixing 4mm thick clear glass including putty complete as per requirement of site and directed by Engineer in charge. Make: Saint gobain/Modi guard | sqm | 20 | | |
| 42 | Manufacturing, supply & erection of single side Retro Reflective Sign Boards, having two colours, aluminium Composite pannels (ACP) cladding on all sides. The ACP shall be 4mm thick of DURABUILD/ALUDECOR/EUROBOND make, having 0.30mm thick skin of aluminium with polyvinylidene fluoride (PVDF) coating on one side and the other one will be either mill finish or coated with polyester (as the manufacturer's specification). The front side of the board is to be fully covered with 3M/ Avery Dennison/ Orafol make fully cube polycarbonate micro prismatic retro reflective sheeting conforming to TYPE XI of ASTM D 4956-09 with coloured electrocut overlay sheeting 3M/ Avery Dennison/ Orafol make as per the approved design by the employer. Subject matter, logos and border will duly computerised cut of the same type XI. | sqm | 35 | | |
| 43 | Providing & fixing of paper holder(approved make) complete in all respect as per the instruction of site in charge. Make- Jaquar/Hindware/Cera | each | 10 | | |
| 44 | Providing and fixing testing commissioning of CP (Health Faucet) hand shower with 8mm dia, 1mtr Long flexible tube and wall hook complete in all respect (Make-Jaquar and cat no ALD-CHR-587) | each | 10 | | |
| 45 | Hole cutting for Wash basin/GI/PVC/CI pipes in RCC slabs and brick wall & making good repair the same etc. complete in all respect. Make- Jaquar/Hindware/Cera | each | 9 | | |
| 46 | Supply, fixing, testing & commissioing of C.P. urinal flush valve with flange complete in all respect (Make- Jaquar & cat no. Prs-Chr-077). | each | 9 | | |
| 47 | Providing & fixing PVC Trap self cleaning design setting in cement concrete 1:2:4 mix in all respect. | | | | |
| a | P trap in 125x100mm | each | 15 | | |

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| | | | A | B | C = (A x B) |
| 48 | Providing and laying cement concrete 1:2:4 in bed and all around PVC Pipe of sizes as under including back filling, centering, shuttering etc. complete in all respect as per the instruction of site in charge. | | | | |
| a | PVC Pipe 100mm dia | metre | 100 | | |
| b | PVC Pipe 160mm dia | metre | 90 | | |
| c | PVC Pipe 200mm dia | metre | 75 | | |
| 49 | Excavation of trenches of required width for pipes etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m , including getting out the excavated soil. | metre | 265 | | |
| 50 | Providing and applying of anti termite treatment on post constructed portion complete in all respect and as per instruction of Engineer in-charge. | sqm | 180 | | |
| 51 | Providing & fixing of window glass shutter in marandy wood frame including hing ,tower bolt as per drawing complete | sqm | 10 | | |
| 52 | Providing and fixing of fly mesh (jali) for door/window where as complete as per requirement of site and directed by Engineer in-charge. | sqm | 10 | | |
| 53 | Providing and fixing CGI sheets with ridge and screw with washer, J/U- bolts of desired sample as approved by client. (Thickness- 0.5mm) | sqm | 125 | | |

Total (without GST), Rs.

Amount in Words (without GST): Rupees.....

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Note:

1. Only GST shall be paid extra as applicable.
2. All other taxes, Octroi, Royalty, Labour Cess, other Cess, Levies etc. are included in the above quoted rates.
3. Approved make of Cement : Ultratech, ACC, Ambuja, or other equivalent as approved by the Engineer-in-charge.
4. Fittings and other materials shall be with ISI mark (wherever approved makes are not mentioned).