

# PATNA MUNICIPAL CORPORATION

## Bill Of Qunatity

Name of Work : Repair &Upgradation of Metropolitan Survellaince unit  
at Rajaghat Patna (Bihar)

1. Estimated Cost : Rs. 2849527.00

2. Cost Of BOQ : Rs.

3. Earnest Amount : Rs.

4. Tender Number :

5. Authority of recieving and opening of Tender : Executive Engineer, Azimabad Division, P.M.C PATNA

6. Time Of Completion :

7. Date and Time Of issuing BOQ :

8. Date and Time for Recieving the Tender :

9. Date and Time for Opening the Tender :

10. Bill Of Quantity Issued to the:  
through the office of executive engineer, Azimabad  
Division, P.M.C PATNA

| Sl.No. | Item Of Work   | Quantity | Unit        | Rate    | Amount    |
|--------|--|----------|-------------|---------|-----------|
| 1      | WATER SUPPLY Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.(32 mm nominal outer dia Pipes) | 50.000   | Metre       | 549.80  | 27490.00  |
| 2      | Providing and fixing on wall face unplastidsed-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion. 110 mm diameter   | 55.000   | Metre       | 257.50  | 14162.00  |
| 3      | Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of engineer-in charge, 20 mm dia & 150mm length   | 24.000   | Set         | 6303.40 | 151281.00 |
| 4      | WOOD WORK & PVC WORK Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete., Fixed to openings/ wooden frames with rawl plugs screws etc  | 4200.000 | Kg          | 144.50  | 606900.00 |
| 5      | Earth work in excavation over areas ( exceeding 30 cm in depth. 1.5 m in width as well es 10 sqm on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m; disposed earth to be levelled and neatly dressed. (AH Kinds of soil)   | 84.380   | Cubic Meter | 314.90  | 26571.00  |

| Sl.No. | Item Of Work   | Quantity | Unit         | Rate    | Amount    |
|--------|--|----------|--------------|---------|-----------|
| 6      | Earth work in excavation over areas ( exceeding 30 cm in depth. 1.5 m in width as well es 10 sqm on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m; disposed earth to be levelled and neatly dressed. (AH Kinds of soil)   | 45.000   | Cubic Meter  | 314.90  | 14170.00  |
| 7      | Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level. , 1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)  | 4.220    | Cubic Meter  | 3998.10 | 16871.00  |
| 8      | Reinforced cement conrete work in beams,suspended floors, roofs having slope upto 15, landings,balconiec, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excludingthe cost of centring, shuttering, finishing and reinforcement with 1:2:4(1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size).   | 29.440   | Cubic Meter  | 5335.90 | 157088.00 |
| 9      | Thermo-Mechanically Treated bars (FE-500) 20mm dia.  | 2310.730 | Kg           | 91.70   | 211893.00 |
| 10     | Centring and shuttering including strutting,propping etc. and removal of form for., Suspended floors, roots, landings, balcnies and access platform.   | 33.750   | Square Meter | 437.50  | 14765.00  |
| 11     | 12 mm cement plaster of mix: 1:4(1 cement :4 coarse sand)  | 123.750  | Square Meter | 176.40  | 21829.50  |
| 12     | DRAINAGE,STONE WARE PIPES AND FITTINGS, Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be isible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design. | 45.000   | Each         | 362.70  | 16321.50  |
| 13     | S.C.I. Tee 150 mm  | 6.000    | Each         | 570.00  | 3420.00   |
| 14     | SANITARY INSTALLATIONS Providing and fixing soil, waste and vent pipes :75 mm diameter :(Sand cast iron S&S pipe as per IS: 1729)  | 36.000   | Metre        | 898.50  | 32346.00  |
| 15     | SANITARY INSTALLATIONS Providing and fixing terminal guard :75 mm(Sand cast iron S&S as per IS - 1729)   | 9.000    | Each         | 318.30  | 2864.00   |



| Sl.No. | Item Of Work  | Quantity | Unit  | Rate     | Amount    |
|--------|---|----------|-------|----------|-----------|
| 16     | DRAINAGE,STONE WARE PIPES AND FITTINGS,<br>Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality, L D-10, Circular Shape 500 mm internal diameter   | 9.000    | Each  | 1082.70  | 9744.30   |
| 17     | DRAINAGE,STONE WARE PIPES AND FITTINGS,<br>Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | 4.000    | Each  | 33603.40 | 134413.59 |
| 18     | DRAINAGE,STONE WARE PIPES AND FITTINGS,<br>Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 350 to 450 mm diameter | 3.000    | Each  | 620.90   | 1862.70   |
| 19     | RAIN WATER HARVESTING & TUBEWELLS<br>Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. (All types of soil)               | 90.000   |       | 426.00   | 38340.00  |
| 20     | RAIN WATER HARVESTING & TUBEWELLS<br>Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths,as per direction of Engineer -in-charge.(100 mm nominal size dia)  | 50.000   | Metre | 595.30   | 29765.00  |
| 21     | RAIN WATER HARVESTING & TUBEWELLS<br>Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths,as per direction of Engineer -in-charge.(150 mm nominal size dia)  | 30.000   | Metre | 684.70   | 20541.00  |

| Sl.No. | Item Of Work  | Quantity | Unit         | Rate    | Amount    |
|--------|---|----------|--------------|---------|-----------|
| 22     | <b>RAIN WATER HARVESTING &amp; TUBEWELLS</b><br>Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge. (100 mm nominal size dia)  | 9.000    | Metre        | 646.40  | 5817.60   |
| 23     | <b>RAIN WATER HARVESTING &amp; TUBEWELLS</b> Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.  | 6.000    | cum          | 1388.90 | 8333.40   |
| 24     | <b>RAIN WATER HARVESTING &amp; TUBEWELLS</b><br>Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge. | 6.000    | Hour         | 857.60  | 5145.60   |
| 25     | <b>RAIN WATER HARVESTING &amp; TUBEWELLS</b><br>Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of: (150 mm dia)  | 1.000    | Each         | 210.70  | 210.70    |
| 26     | <b>RAIN WATER HARVESTING &amp; TUBEWELLS</b><br>Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete. (150 mm clamp)   | 1.000    | Each         | 1154.30 | 1154.30   |
| 27     | <b>RAIN WATER HARVESTING &amp; TUBEWELLS</b><br>Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS: 2800 (part I). (100 mm dia)   | 1.000    | Each         | 227.40  | 227.40    |
| 28     | Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/ 10 sqm) over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm   | 3405.000 | Square Meter | 215.20  | 732756.00 |



| Sl.No. | Item Of Work   | Quantity   | Unit         | Rate     | Amount     |
|--------|--|------------|--------------|----------|------------|
| 29     | Kota stone slab flooring over 20 mm (average ) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete . Base with 1:1:1 (1 lime : 1 surkhi: 1 coarse sand ) / 1:4 20 to 25 mm thick -       | 90.000     | Square Meter | 1252.70  | 112743.00  |
| 30     | Kota stone slab flooring over 20 mm (average ) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete . Base with 1:1:1 (1 lime : 1 surkhi: 1 coarse sand ) / 1:4 20 to 25 mm thick -       | 9.000      | Square Meter | 1334.90  | 12014.10   |
| 31     | WATER SUPPLY Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. | 6000.000   | Per Litre    | 9.70     | 58200.00   |
| 32     | Add enhance G.S.T 5.36%  | 133423.270 | NOS          | 1.00     | 133423.27  |
| 33     | Supplying of all equipment ,tools,and installation of 2H.P Single phase submersible pump set   | 1.000      | Each         | 40446.00 | 40446.00   |
| 34     | Add centage @7% upto 10 cr.  | 186417.630 | NOS          | 1.00     | 186417.62  |
|        | Say  |            |              |          | 2849527.00 |

- Note:-The rates shown in the bill of quantity are inclusive of all taxes/royalties etc & for complete
- I/We undertake to execute all items of work as shown in the bill of quantity at rate indicated below  
I/We also undertake to execute any or all extra items of work at the same rates quoted below
- Tender Rate:
  - At Estimated Rates
  - At \_\_\_\_\_% above the estimated rates
  - At \_\_\_\_\_% below the estimated rates
- Strike out which ever is not applicable and sign
- Rate should be quoted both in figure and in word in case found any discrepancy in quoted rates. Tender liable to be

6. Name of tenderer

7. Detail of correspondence

8. Detail of earnest money deposited with the tender documents

9. Registration no./Vat no or any other Information

P.O.Q. Approved Works No. 1 to 34 Dt. ....

For Rs. 28,49,527 (Rs. - twenty eight lakh forty nine thousand five hundred twenty seven) Only.

Full Signature of Tenderer

*(Signature)*  
09/06/26  
**DINESH CHANDRA SINHA**  
Junior Engineer  
Azimabad Division  
PMC, Patna

*(Signature)*  
09/06/26  
AE  
**Vijay Kr. Singh**  
Assistant Engineer  
Azimabad Division  
P.M.C., Patna

*(Signature)*  
09/06/26  
Executive Engineer  
Azimabad Division  
Executive Engineer  
Azimabad Division  
P.M.C., Patna