

## Bill of Quantity (BOQ)

### Construction of Multi Utility Room at Suarijore PHC of Lephripara block under PIP of Sundargarh district for the year 2020-21

| Sl. No | Item   | Quantity | Unit | Rate     | Amount   |
|--------|--|----------|------|----------|----------|
| 1      | Earth work in excavation of foundation in hard soil or gravelly soil including dressing and leveling the bed. initial leads and lifts as per the direction of Engineer-in-   | 28.52    | Cum  | 181.80   | 5184.94  |
| 2      | Supplying & filling foundation and plinth with sand well watered and rammed including cost, cost of all labour, carriage, royalty, taxes, T&P etc complete as per the direction of Engineer-in-charge.   | 32.24    | Cum  | 469.90   | 15149.58 |
| 3      | Cement Concrete (1:3:6) using 40mm size hard granite C.B. metal approved quality from approved quarry including hoisting laying using concrete mixture and vibrators including cost, carriage, royalty, cost of all labour T&P etc complete as per the direction of Engineer-                            | 9.06     | Cum  | 4857.90  | 44012.58 |
| 4      | C.C. (1:2:4) with 12mm and down grade C.B. chips approved quality from approved quarry including hoisting, laying hire charges of concrete mixture, vibrator, watering, curing and including cost, carriage, royalty, cost of all labour T.&P. etc complete as per the direction of Engineer-in-charge.  | 1.31     | Cum  | 6104.40  | 7996.77  |
| 5      | R.C.C. M-25 grade with 20mm and down grade C.B. chips including hoisting, laying hire charges of concrete mixture, vibrator, watering, curing and cost of all materials and labour, T&P centering shuttering etc complete but cost of reinforcement complete as per the direction of Engineer-in-charge. |          |      |          |          |
|        | (A) Column base and footing  | 3.97     | Cum  | 5501.90  | 21842.55 |
|        | (B) Plinth band (Grade beam)   | 1.97     | Cum  | 5849.40  | 11523.32 |
|        | (C) Lintel   | 1.02     | Cum  | 8945.30  | 9124.21  |
|        | (D) Chajja   | 5.58     | Sqm  | 805.40   | 4494.14  |
|        | (E) Column in Superstructure, Beam   | 2.80     | Cum  | 11041.70 | 30916.76 |
|        | (F) Roof slab  | 5.43     | Cum  | 9511.90  | 51649.62 |
| 6      | Providing M.S. reinforcement for R.C.C. work including cutting, bending, binding and tying the grills and placing in position including cost of binding wire 18 to 20 gauge and cost and carriage of steel as per the direction of Engineer-in-charge.   | 15.62    | Qntl | 6092.10  | 95158.61 |

|    |   |        |     |         |          |
|----|---|--------|-----|---------|----------|
| 7  | Brick work with Fly Ash bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm <sup>2</sup> with dimensional tolerance $\pm 2$ percent in cement mortar (1:6) in <b>Foundation&amp;Plinth</b> including watering, curing, cost, carriage, royalty and taxes of all materials, cost of all labour, T&P etc complete as per the direction of Engineer-in-charge.              | 6.31   | Cum | 4104.70 | 25900.66 |
| 8  | Brick work with Fly Ash bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm <sup>2</sup> with dimensional tolerance $\pm 2$ percent in cement mortar (1:6) in <b>Superstructure</b> including watering, curing, cost, carriage, royalty and taxes of all materials, cost of all labour, T&P etc complete as per the direction of Engineer-                               | 15.89  | Cum | 4137.70 | 65748.06 |
| 9  | Supplying <b>M.S Door</b> made out with ms flat , angle of approved design & specification including cost of all materials cost of manufacture, cost of one coat of primer, all taxes T&P etc complete as per the direction of Engineer-in-charge.  | 98.00  | Kgs | 72.00   | 7056.00  |
| 10 | Supplying <b>M.S Window</b> made out with ms flat , angle of approved design & specification including cost of all materials cost of manufacture, cost of one coat of primer, all taxes T&P etc complete as per the direction of Engineer-in-charge.  | 384.75 | Kgs | 76.00   | 29241.00 |
| 11 | Labour charge for fitting ,fixing of M.S door,window, grill , Gate including all cost etc complete as per the direction of Engineer-in-charge.  | 10.55  | Sqm | 68.10   | 718.46   |
| 12 | 12mm thick C.P. in C.M.(1:6) over brick masonry to the smooth surface including watering, curing, cost, carriage, royalty and taxes of all materials, cost of all labour, T&P etc complete as per the direction of Engineer-in-charge.  | 112.25 | Sqm | 133.60  | 14996.60 |
| 13 | 16mm thick C.P. in C.M.(1:6) over brick masonry to the smooth surface including watering, curing, cost, carriage, royalty and taxes of all materials, cost of all labour, T&P etc complete as per the direction of Engineer-in-charge.  | 105.39 | Sqm | 190.50  | 20076.80 |
| 14 | Supplying, fitting and fixing Vetrified tile in floors treads or steps and landing of size 600mm x 600mm Coloured /Printed series (Homogeneous) laid on 25mm thick cement mortar (1:1) 1cement:1 course sand and filling joints with white cement of approved quality including cost of all materials, labour T&P etc. required for the work all complete as per direction of Engineer-in-charge. | 32.26  | Sqm | 1286.80 | 41512.17 |
| 15 | Supplying, fitting and fixing Vetrified tile of size 600mm x 600mm Coloured /Printed series (Homogeneous) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including all costs complete as per the direction of Engineer-in-charge.   | 4.76   | Sqm | 1036.80 | 4935.17  |

|      |   |        |     |         |          |
|------|---|--------|-----|---------|----------|
| 16   | Fixing Glazed tiles (20cmx30cm / 20cm x 20cm special plain /printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including all costs complete as per the direction of Engineer-in-charge.      | 12.00  | Sqm | 730.50  | 8766.00  |
| 17   | Providing fitting, fixing of Aluminium door with anodized Al. door section of 9202 as vertical member, 9201 as top, 9200 as bottom and middle member with frame section as 9221 with tapered clip No. 4660 and the frame to be completed by means of jointing angle No. 1855 including all cost of labour, T&P, hire charges of drilling machine, labour charges etc. complete excluding cost of laminated board. | 17.50  | Kgs | 459.40  | 8039.50  |
| 18   | Providing and fitting of (12 mm thick) Pre-laminated Board Standard Type (ISI) in Aluminium frame of doors including cost of all materials, labour T&P etc complete as per the direction of Engineer-in-charge.   | 1.63   | Sqm | 744.80  | 1214.02  |
| 19   | Painting 2 coats with any approved paint in new iron works including sand papering, polishing surfaces, cost of paints, cost of all labour, T&P, etc complete in all floors as per direction of Engg-in charge.   | 27.71  | Sqm | 131.70  | 3649.41  |
| 20   | Finishing plastered surface of wall surface with Acrylic wall putty (Water based ) & making smooth to receive painting including cost of scaffolding etc. with cost of all materials, labour T&P etc complete as per the direction of Engineer-in-charge.   | 36.00  | Sqm | 90.00   | 3240.00  |
| 21   | Priming 1 coat with wall primer (water bond) of any approved shade including all costs complete as per the direction of Engineer-in-charge.   | 122.07 | Sqm | 57.30   | 6994.62  |
| 22   | Distempering 2 coats to walls with distemper of approved shade on new work to give an even shade including cost of distemper and labour, T & P. etc complete. as per direction of Engineer-in-charge.   | 122.07 | Sqm | 62.40   | 7617.17  |
| 23   | Finishing to the exposed surfaces of wall with weather coat of any approved shade on new work 2 coats to give an even shade including cost of weather coat all cost of all labours and T&P etc complete as per the direction of Engineer-in-charge.   | 112.25 | Sqm | 127.40  | 14300.65 |
| 24   | Fixing water closet Porcelain pan ( Indian type W.C pan ) confirming to IS 2556:Part 3-2004 duly embedded in cement concrete 1:4:8 (using hbg metal 4 cm size) all complete as per P.H specification.   |        |     |         |          |
| (i)  | 580 x440mm size Orissa Pan (White)  | 1.00   | Nos | 2772.60 | 2772.60  |
| 25   | Fixing of Brass Screw -Down Bib Cocks (Tap) Polished bright confirming to IS:781-1995 of the following nominal sizes as per specification complete.   |        |     |         |          |
| (i)  | 15 mm dia C.P. Brass Short Body Bib Cock  | 2.00   | Nos | 672.10  | 1344.20  |
| (ii) | 15 mm diameter Pillar cock  | 1.00   | Nos | 696.90  | 696.90   |

|              |  |       |      |         |         |
|--------------|--|-------|------|---------|---------|
| <b>26</b>    | Fixing of Brass or C.P screw down stop cocks/ concealed stop cock/ angle stop cocks confirming to IS: 781-1995 of the following nominal sizes as per P.H specification complete.   |       |      |         |         |
| <b>(i)</b>   | 15 mm dia Brass Screw- down Stop Cock  | 1.00  | Nos  | 656.00  | 656.00  |
| <b>(ii)</b>  | 125mm CP grating   | 3.00  | Nos  | 72.90   | 218.70  |
| <b>27</b>    | Fixing Wash Basins with hole for Pillar Taps confirming to IS 2556:Part 4-2004 with Cast Iron or M.S brackets painted white including cutting holes in walls and making good the damages etc all complete as per P.H   |       |      |         |         |
| <b>(i)</b>   | Vitreous China flat back Wash Hand Basin of size 550 mm x 400 mm   | 1.00  | Nos  | 2863.80 | 2863.80 |
| <b>28</b>    | Providing and fixing to wall or ceiling and floor Chlorinated Polyvinyl Chloride (CPVC) Pipes confirming to IS: 15778 of the following nominal bore with clamp including making good the damages to wall ,ceiling & floor etc complete as per specification as per direction of  |       |      |         |         |
| <b>(i)</b>   | 15 mm nominal outer dia pipe   | 15.00 | Mtrs | 166.80  | 2502.00 |
| <b>(ii)</b>  | 25 mm nominal outer dia pipe   | 15.00 | Mtrs | 297.00  | 4455.00 |
| <b>29</b>    | Providing and laying in trenches PVC pipe ( 4Kg/cm <sup>2</sup> ) as sewer line and alining to requisite gradients inside the trench, jointing with solvent cement with 0.08m sand filling in bed , 0.10m C.C ( 1:4:8) using 40 mm size hbg metal in bed & for intermediate pillar including lowering the pipes to the bed of trench, Earthwork in excavation in all kind of soil ,Filling the trenches with excavated earth with watering and ramming and removal of surplus earth, testing of sewer line etc. complete as per the direction of |       |      |         |         |
| <b>(i)</b>   | 75 mm PVC Pipe   | 8.00  | Mtrs | 819.80  | 6558.40 |
| <b>(ii)</b>  | 110 mm PVC Pipe  | 8.00  | Mtrs | 861.00  | 6888.00 |
| <b>30</b>    | Supplying all materials, labour, T&P and fitting and fixing U-PVC, SWR soil waste ventilating pipes and fitting of the following outside diameter conforming to 13592/1992 to walls with nails bobbins and wooden plugs or laying in trenches including with supply of approved rubber lubricant by non-heat application method as per manufactures specification testing earth work in excavation in all kinds of soil and refilling of trenches all complete as per specification and direction of Engineer.in                                 |       |      |         |         |
| <b>(i)</b>   | 110 mm U-PVC Pipe  | 3.00  | Mtrs | 284.20  | 852.60  |
| <b>(ii)</b>  | 110 mm U-PVC 'P' trap  | 2.00  | Each | 294.20  | 588.40  |
| <b>(iii)</b> | 110 mm U-PVC door bend   | 4.00  | Each | 302.10  | 1208.40 |
| <b>(iv)</b>  | 110 mm U-PVC Plain bend  | 7.00  | Each | 287.10  | 2009.70 |
| <b>(v)</b>   | 110 mm U-PVC Cowl  | 3.00  | Each | 38.40   | 115.20  |
| <b>(vi)</b>  | 110 mm U-PVC Coupler   | 8.00  | Each | 130.30  | 1042.40 |

|               |  |       |      |        |         |
|---------------|--|-------|------|--------|---------|
| <b>(vii)</b>  | 75 mm U-PVC Plain bend   | 8.00  | Each | 163.80 | 1310.40 |
| <b>(viii)</b> | 75 mm U-PVC Coupler  | 8.00  | Each | 97.60  | 780.80  |
| <b>31</b>     | Fixing 15 mm dia PVC inlet connection pipe and making connection with pillar cocks and supply main for wash basin complete as per specification. & direction of Engineer-in-charge.  |       |      |        |         |
| <b>(i)</b>    | 15mm dia   | 1.00  | Nos  | 195.40 | 195.40  |
| <b>32</b>     | Fixing PVC Waste Pipe of the following diameter for sink or wash basin including brass check nut complete as per specification & direction of Engineer-in-charge.  |       |      |        |         |
| <b>(i)</b>    | 32mm dia   | 1.00  | Nos  | 174.50 | 174.50  |
| <b>33</b>     | Fixing chromium plated Brass waste of the following nominal diameter for wash basin and sink as per specification & direction of Engineer-in-charge.   |       |      |        |         |
| <b>(i)</b>    | 32mm dia   | 1.00  | Nos  | 409.70 | 409.70  |
| <b>34</b>     | Cutting holes through existing brick work including making good the same in cement mortar ( 1: 4 ) for taking G.I / P.V.C pipes and fittings all complete as per specification & direction of Engineer-in-charge.  |       |      |        |         |
| <b>(i)</b>    | 250 mm thick wall  | 6.00  | Nos  | 47.40  | 284.40  |
| <b>(ii)</b>   | 375 mm thick wall  | 4.00  | Nos  | 71.10  | 284.40  |
| <b>35</b>     | Recessed wiring to light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked with 20 Amp, 250 V piano type switch ISI marked and ceiling rose ISI marked mounted on MS box having front bakelitemm dia non-metalic PVC conduit with 5 cover of suitable size, MS box with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge. |       |      |        |         |
| <b>(i)</b>    | Group (A)  | 9.00  | Nos  | 584.20 | 5257.80 |
| <b>(ii)</b>   | Group (B)  | 4.00  | Nos  | 690.00 | 2760.00 |
| <b>(iii)</b>  | Group (C)  | 8.00  | Nos  | 829.00 | 6632.00 |
| <b>36</b>     | Supplying and fixing of following piano type switch / socket on the existing switch box / cover including connections etc as required (5/6A) as per direction of Engineer in Charge.   | 6.00  | Nos  | 212.00 | 1272.00 |
| <b>37</b>     | Supplying and fixing batten holder / BK angle holder ISI marked including connection etc as required as per direction of Engineer in Charge.   | 8.00  | Nos  | 43.00  | 344.00  |
| <b>38</b>     | Supply and drawing of following sizes FR PVC insulated single core multistrand copper conductor in existing surface / recessed STEEL/PVC conduit as required (2 x 2.5 sqmm) as per direction of Engineer in Charge.  | 25.00 | Mtrs | 115.00 | 2875.00 |

|                       |   |                             |      |   |         |
|-----------------------|---|-----------------------------|------|---|---------|
| <b>39</b>             | Supply and drawing of following sizes FR PVC insulated single core multistrand copper conductor in existing surface / recessed STEEL/PVC conduit as required (2 x 4.0 sqmm) as per direction of Engineer in Charge. | 25.00                       | Mtrs | 132.00  | 3300.00 |
| <b>Total 39 items</b> |   | <b>Total Estimated Cost</b> |      | <b>621,712.00</b><br>( Rupees Six Lakh<br>Twenty One Thousand<br>Seven Hundred Twelve )<br>Only |         |

My quoted rate is ..... % ( both figure & word ) Excess over / Less than / Equal to above estimated cost.

**Note**

- 1 The Contractor should not write anything except quoting of percentage and incase of anything regarding tender.
- 2 Strick out which are not applicable.

**Total :- 39 (Thirty Nine) Items only**

**No. of correction :-**

**No.of overwriting :-**

**No. of Interpolation :-**

**Approved for 39 (Thirty Nine) Items only**

**Full signature of the Contractor with date.**

**Chief District Medical & Public Health Officer  
Cum District Mission Director  
Sundargarh**