



Karnataka  
Forest  
Department

### ESTIMATE

|                |   |
|----------------|---|
| Specification: | As per OM issued by the O/o The PCCF(HOFF), Bangalore vide OM No:KFD/WP/A1(BUD)/5/2024 Dated:22.07.2024 & KFD/DEV/B1/SSR/1/2026-DEV-KFD E-2185876 Dated: 01.04.2026 |
|----------------|---|

### PART-A

[illegible]

| Sl. N                        | Particulars  | Unit             | Box | No       | L                                       | B             | D     | Qty/Unit      | Rate in Rs. | Amount in Rs.                      |  |                             |          |            |          |      |
|------------------------------|--|------------------|-----|----------|---|---------------|-------|---------------|-------------|------------------------------------|--|-----------------------------|----------|------------|----------|------|
| 1                            | 2  | 3                | 4   | 5        | 6                                       | 7             | 8     | 9             | 10          | 11                                 |  |                             |          |            |          |      |
|                              | 5918.00  | 710.16           |     | 6628.16  |   |               |       |               |             |                                    |  |                             |          |            |          |      |
| 3                            | 2.2.1. Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.<br>(PWD Schedule of Rates 2023-2024 Vol No.1, Page No:15, Item No:2.2.1)   |                  |     |          |   |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              | Footing  |                  |     | 1        | x                                       | 0.50          | x     | 0.50          | x           | 0.575                              | =                                      | 0.14375                     |          |            |          |      |
|                              |  | cum              | 1   |          |   |               |       |               |             |                                    |  | 0.14375                     |          |            |          |      |
|                              |  | Nos              |     | 50       |   |               |       |               |             |                                    |  | 7.18750                     | cum      | 7323.10    | 52635.00 |      |
|                              | Basic Rate   | Scaffolding @4%  |     |          | Total                                   | AW @ 12%      |       | Total         |             |                                    |  |                             |          |            |          |      |
|                              | 6184.00  | 251.48           |     |          | 6435.48                                 | 784.6176      |       | 7220.10       |             |                                    |  |                             |          |            |          |      |
| 4                            | 2.4.2 Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20Design Mix Using 20 mm nominal size graded crushed coarse aggregates.<br>(PWD Schedule of Rates 2023-2024 Vol No.1, Page No:16, Item No:2.4.2) |                  |     |          |   |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              | Column   |                  |     | 1        | x                                       | (0.35+0.25)/2 | x     | (0.35+0.25)/2 | x           | 1                                  | =                                      | 0.09000                     |          |            |          |      |
|                              | Cap  |                  |     | 1/3      |   | 0.25          | x     | 0.25          | x           | 0.05                               |  | 0.00104                     |          |            |          |      |
|                              |  | cum              | 1   |          |   |               |       |               |             |                                    |  | 0.09104                     |          |            |          |      |
|                              |  | Nos              |     | 50       |   |               |       |               |             |                                    |  | 4.55208                     | cum      | 7789.94    | 35460.00 |      |
|                              | Basic Rate   | Scaffolding @10% |     |          | Total                                   | AW @ 12%      |       | Total         |             |                                    |  |                             |          |            |          |      |
|                              | 6221.00  | 622.1            |     |          | 6843.10                                 | 821.172       |       | 7664.27       |             |                                    |  |                             |          |            |          |      |
| 5                            | 2.11 Steel Fabrication Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancillary operations complete as per drawing and technical specification.<br>(PWD Schedule of Rates 2023-2024 Vol No.1 Page No:18, Item No: 2.11h)   |                  |     |          |   |               |       |               |             |                                    |  |                             |          |            |          |      |
| Calculation Sheet for Steel  |  |                  |     |          |   |               |       |               |             | Calculation Sheet for Rings (RMTR) |  |                             |          |            |          |      |
| Calculation Sheet for Pillar | a) 10mm dia vertical bars  |                  | 4   | Nos.     | Total length from Top to Bottom + Bent  |               |       |               |             |                                    | 8 mm dia meter 130 mm c/c bars 12 nos. | 12 Rings from bottom to top | Details  | Particular | Nos.     | RMTR |
|                              |  |                  |     |          | = 1.6 + 0.08                            |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              |  |                  |     |          | = 1.68 RMTR                             |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              |  |                  |     |          | = 4 X 1.68 =6.72 RMTR                   |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              |  |                  |     |          | = 6.72 X 0.62 kg/m                      |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              | Total  |                  |     |          | = 4.17 kg                               |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              | b) 8 mm dia Rings  |                  | 12  | Nos.     | Total RMTR of 12 Rings + Bent for Rings |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              |  |                  |     |          | = 13.192 + 0.768                        |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              |  |                  |     |          | = 13.96 RMTR                            |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              |  |                  |     |          | = 13.96 X 0.39 kg/m                     |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              | Total  |                  |     |          | = 5.44 kg                               |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              | Grand Total (a+b)  |                  |     |          | = 9.61 Kg                               |               | tonne | 0.00961       |             |                                    |  |                             |          |            |          |      |
|                              | Pillar   | tonne            |     | 1        |   |               |       |               |             |                                    |  |                             |          |            |          |      |
|                              | Nos  |                  | 50  |          |   |               |       |               |             |                                    | 0.48050                                | tonne                       | 89621.28 | 43063.00   |          |      |
| Basic Rate                   | AW @ 12%   |                  |     | Total    |   |               |       |               |             |                                    |  |                             |          |            |          |      |
| 80019.00                     | 9602.28  |                  |     | 89621.28 |   |               |       |               |             |                                    |  |                             |          |            |          |      |

| Sl. No | Particulars | Unit | Box | No | L | B | D | Qty/Unit | Rate in Rs. | Amount in Rs. |
|--------|-------------|------|-----|----|---|---|---|----------|-------------|---------------|
| 1      | 2           | 3    | 4   | 5  | 6 | 7 | 8 | 9        | 10          | 11            |

- 6 2.11 Steel Fabrication Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancillary operations complete as per drawing and technical specification.  
(PWD Schedule of Rates 2023-2024 Vol No.1 Page No:18, Item No: 2.11h)

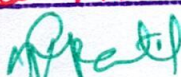
| Calculation Sheet for Footing        |                                     |   |                        |                           |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|--------------------------------------|-------------------------------------|---|------------------------|---------------------------|---------------------------|--|--|--|--|--|--|--|---------|-------|----------|----------|--|--|
| Footing including Jali at the bottom | a) 10mm dia corner vertical bars    | 4 | Nos.                   | Total RMTS + Bent         |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 0.55+0.08                 |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 0.63 RMTR                 |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 4 X 0.63                  |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 2.52 RMTR                 |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 2.52 X 0.62               |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | Total                  | =                         | 1.56 kg                   |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      | b) 10 mm dia Bars for Jali (Border) | 4 | Nos.                   | Total RMTR + Bent         |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 4(0.45)+0.08              |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 1.8+0.08                  |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 1.88 RMTR x 0.62 =1.17 kg |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   |                        |                           |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      | Bars for jali Bottom                |   | 4                      | Nos.                      |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      | For Top                             |   | 2                      | Nos.                      |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      | Total                               |   | 6                      | Nos.                      |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   |                        | =                         | 6 x 0.45                  |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   |                        | =                         | 2.7 RMTR x 0.62 =1.674/kg |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      | c) 10mm dia corner vertical bars    | 3 | Nos.                   | Total RMTS + Bent         |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 1.8 +0.0064               |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 1.864                     |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 3 X 1.864                 |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 5.592 RMTR x 0.39 kg/m    |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
|                                      |                                     |   | =                      | 2.18 kg                   |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
| =                                    |                                     |   | 1.56+1.17 +1.674 +2.18 |                           |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
| Grand Total Steel for Footing        |                                     |   | =                      | 6.58 kg                   |                           |  |  |  |  |  |  |  |         |       | tonne    | 0.00658  |  |  |
| Pillar                               | tonne                               |   | 1                      |                           |                           |  |  |  |  |  |  |  | 0.00658 |       |          |          |  |  |
|                                      | Nos                                 |   | 50                     |                           |                           |  |  |  |  |  |  |  | 0.32900 | tonne | 89621.28 | 29485.00 |  |  |
| Basic Rate                           | AW @ 12%                            |   | Total                  |                           |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |
| 80019.00                             | 9602.28                             |   | 89621.28               |                           |                           |  |  |  |  |  |  |  |         |       |          |          |  |  |

- 7 12.3A Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth. Compacting each deposited layer by ramming after watering with a lead upto 50m, and lift upto 1.5m including cost of all labour complete as per specifications.  
(PWD Schedule of Rates 2023-2024 Vol No.I, Page No:7, Item No:1.10)

|            |          |   |        |   |      |   |      |   |       |   |          |     |        |
|------------|----------|---|--------|---|------|---|------|---|-------|---|----------|-----|--------|
| Earth Work |          |   | 1      | x | 0.80 | x | 0.80 | x | 0.6   | = | 0.38400  |     |        |
| Deduction  |          |   |        |   | 0.80 | x | 0.80 | x | 0.075 | = | 0.04800  |     |        |
|            |          |   |        |   | 0.50 | x | 0.50 | x | 0.525 | = | 0.13125  |     |        |
|            | cum      | 1 |        |   |      |   |      |   |       | = | 0.20475  |     |        |
|            | Nos      |   | 50     |   |      |   |      |   |       | = | 10.23750 | cum | 179.20 |
| Basic Rate | AW @ 12% |   | Total  |   |      |   |      |   |       |   |          |     |        |
| 160.00     | 19.2     |   | 179.20 |   |      |   |      |   |       |   |          |     |        |

- 8 8.10 Providing 6 mm cement plaster with cement mortar 1:3 (1 cement: 3 fine sand) on concrete surface/ceilings including rounding off corners wherever required smooth rendering. Providing and removing scaffolding. Including cost of materials, labour; curing complete as per specifications and as per directions of Engineer-in-charge.(PWD Schedule of Rates 2023-2024 Vol No.2, Page No:43, Item No:8.10)

| Calculation Sheet     |          |                                |        |  |  |  |  |         |     |        |
|-----------------------|----------|--------------------------------|--------|--|--|--|--|---------|-----|--------|
| Cap                   |          | 1/2 x base x slant ht x 4 nos. |        |  |  |  |  |         |     |        |
|                       |          | 0.5 x 0.25 x 0.135 x 4 nos.    |        |  |  |  |  |         |     |        |
|                       |          | 0.0670 sq.mtr.                 |        |  |  |  |  |         |     |        |
|                       |          |                                |        |  |  |  |  | 0.0670  | sqm |        |
| Column                |          | (0.35 + 0.25)/2 x 1 x 4 nos.   |        |  |  |  |  |         |     |        |
|                       |          | 0.30 x 1 x 4 nos               |        |  |  |  |  |         |     |        |
|                       |          | 1.20 sq.mtr.                   |        |  |  |  |  |         |     |        |
|                       |          |                                |        |  |  |  |  | 1.2000  | sqm |        |
| Footing Upper surface |          | (0.5 + 0.5) - (0.35 x 0.35)    |        |  |  |  |  |         |     |        |
|                       |          | = 0.25 - 0.1225 = 0.1275       |        |  |  |  |  |         |     |        |
|                       |          | 0.128 sq.mtr.                  |        |  |  |  |  |         |     |        |
|                       |          |                                |        |  |  |  |  | 0.1280  | sqm |        |
| Footing Side surface  |          | 0.5 x 0.5 x 4                  |        |  |  |  |  |         |     |        |
|                       |          | 0.100 sq.mtr                   |        |  |  |  |  |         |     |        |
|                       |          |                                |        |  |  |  |  | 0.1000  | sqm |        |
|                       | sq.m     | 1                              |        |  |  |  |  |         |     |        |
|                       | Nos      |                                | 50     |  |  |  |  |         |     |        |
|                       |          |                                |        |  |  |  |  | 1.4950  | sqm |        |
|                       |          |                                |        |  |  |  |  | 74.7500 |     | 236.32 |
| Basic Rate            | AW @ 12% |                                | Total  |  |  |  |  |         |     |        |
| 210.00                | 25.2     |                                | 235.20 |  |  |  |  |         |     |        |

4406-01-101-0-01-132  
BUDGET HEAD : Other Capital Expenses (D&P)  
S.O. No. 136/2026-27 Date: 05/06/2026  
Sanctioned for Rupees 442500/- [Four lakh Fourty  
Two thousand Five Hundred only]  
  
Deputy Conservator of Forests  
and Technical Assistant to Conservator of Forests  
Working Plan and Survey, Shivamogga.