

**TAMIL NADU POLICE HOUSING CORPORATION LTD.,**  
**(An ISO 9001 : 2015 Certified Company)**  
**No. 132, E.V.R. Salai, Kilpauk, Chennai – 10**



Lr.No.CE/Plg/8534/2021

Dated:05.06.2023

To

The Director General of Police,  
Head of Police,  
Tamil Nadu,  
Chennai – 04.

Sir,

**Sub:** TNPHC- Construction of new building for Otteri Urban Police Station under Tambaram Police Commissionerate in Chennai City - Feasibility report and detailed estimate proposal-Sent-Regarding.

**Ref:** 1. Budget Announcement 2023 – 2024 on 20.04.2023 & 21.04.2023.  
2. The DGP's Lr.C.No.02939- 4/ Bldg I (1)/2023, Dated:26.04.2023.

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With reference to the letter 1<sup>st</sup> cited, the construction of new building for Otteri Urban Police Station under Tambaram Police Commissionerate in Chennai City to a value of **Rs. 215.00 Lakhs** is comes under the <sup>Announcement of</sup> Hon'ble Chief Minister of Tamil Nadu as announcement No.40.

2) Based on the Budget Announcement 2023-24, the DGP/HoPF has requested to furnish the detailed estimate proposal vide in the reference 2<sup>nd</sup> cited.

3) Accordingly, the detailed estimate for the construction of new building for Otteri Urban Police Station under Tambaram Police Commissionerate in Chennai City is prepared adopting PWD schedule of rates 2023-24, Electrical SD data for the rates for the year of 2023-2024 and TWAD schedule of rates for the year of 2022 - 23 and including all over head charges. Necessary Type design and tentative layout are enclosed herewith.

| Sl. No | Name of Work   | Amount in Lakhs | Remarks   |
|--------|--|-----------------|---|
| 1.     | Construction of new building for Otteri Urban Police Station under Tambaram Police | 215.00          | ❖ The land is identified in S. No.277/10, No.1 Mannivakkam Village, Vandalur Taluk in Chengalpattu District having an |

|  |                                 |  |   |
|--|---------------------------------|--|---|
|  | Commissionerate in Chennai City |  | <p>extent of 1.821 Sq.m</p> <ul style="list-style-type: none"> <li>❖ The land belongs to Police Department.</li> <li>❖ The Site is Low lying for 1.00m from the existing Ground level, hence filling is required.</li> <li>❖ It is feasible to construct the Otteri Urban Police Station building at Chengalpattu District .</li> </ul> |
|--|---------------------------------|--|---|

3) It is requested that necessary administrative and financial sanction may be obtained from the competent authority and communicated to us to take up the work early.

**Encl: As Stated.**

**Yours faithfully,**



**Chief Engineer**

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**TAMIL NADU POLICE HOUSING CORPORATION LIMITED**

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**GENERAL ABSTRACT****Name of Work : Construction of Police Station at T7 Otteri under Tambaram  
Commissionerate in Chennai City**

| Sl.No. | Qty  | Description  | Rate                           | Unit   | Amount      |
|--------|------|--|--------------------------------|--------|-------------|
|        |      | <b>BUILDING WORKS</b>  | <b>AS PER PWD SR 2023-2024</b> |        |             |
| 1      | 1.00 | Construction of Police Station at T7 Otteri under Tambaram Commissionerate in Chennai City | 14311727.72                    | 1 unit | 14311727.72 |
|        |      | <b>SUB - TOTAL - I Rs.</b>   | <b>14311727.72</b>             |        |             |
|        |      | <b>Development works</b>   |                                |        |             |
| 2      | 1.00 | Borewell and Pumpset Arrangements  | 544239.30                      |        | 544239.30   |
| 3      | 1.00 | Storm & Sullage Drain  | 127592.31                      |        | 127592.31   |
| 4      | 1.00 | Plinth Protection  | 59737.86                       |        | 59737.86    |
| 5      | 1.00 | Septic Tank  | 198078.50                      |        | 198078.50   |
| 6      | 1.00 | Cement Concrete Road   | 660627.76                      |        | 660627.76   |
| 7      | 1.00 | Retaining wall   | 907373.56                      |        | 907373.56   |
| 8      | 1.00 | Provision for Soil investigation   | LS                             |        | 50000.00    |
|        |      | <b>SUB - TOTAL - II Rs.</b>  | <b>16859377.01</b>             |        |             |
| 9      |      | <b>GST at 18.0% ( GST at 9% + CGST 9% )</b>  |                                |        | 3034687.86  |
|        |      | <b>SUB - TOTAL - IV Rs.</b>  | <b>19894064.87</b>             |        |             |
| 10     |      | Labour Welfare fund @ 1 %  | As per PWD Norms               |        | 168593.77   |
| 11     |      | Unforeseen items, Contingencies & PS.Charges 1 %   | As per PWD Norms               |        | 168593.77   |
| 12     |      | Supervision Charges @ 5 %  | As per PWD Norms               |        | 842968.85   |
|        |      | <b>SUB - TOTAL - V Rs.</b>   | <b>21074221.26</b>             |        |             |
| 13     |      | Advertisement charges  | LS                             |        | 51000.00    |

| Sl.No. | Qty | Description   | Rate | Unit | Amount                      |
|--------|-----|---|------|------|-----------------------------|
| 14     |     | Provision for EB Deposits                                       | LS   |      | 175000.00                   |
| 15     |     | Provision for planning permission & payment to other department | LS   |      | 150000.00                   |
| 16     |     | Structural Design / Consultancy charges                         | LS   |      | 50000.00                    |
|        |     | <b>GRAND TOTAL Rs.</b>  |      |      | <b>21500221.26</b>          |
|        |     |   |      |      | <b>Say Rs. 215.00 Lakhs</b> |

  
**Chief Engineer**  
 Tamilnadu Police Housing Corporation Ltd  
 Chennai - 600 010

  
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### Construction of Police Station at T7 Otteri under Tambaram Commissionerate in Chennai City

| Sl. No. | Description of Work   | Rate<br>(M- sand) | Unit | Total Qty.<br>(Building + Dev) |           |
|---------|---|-------------------|------|--------------------------------|-----------|
|         |   |                   |      | Qty                            | Amount    |
| 1.1     | Earth work excavation in all soils (including refilling)  |                   |      |                                |           |
|         | a. 0 to 2 mt.   | 260.80            | Cum. | 217.100                        | 56619.68  |
| 1.5     | Earth work excavation for <b>Open foundation</b> (excluding refilling)                              |                   |      |                                |           |
|         | a. 0 to 2 mt.   | 123.26            | Cum. | 42.200                         | 5201.57   |
| 1.6     | Earth work excavation for <b>Open foundation</b> for drains (excluding refilling) width upto 1.25 m |                   |      |                                |           |
|         | a. 0 to 2 mt.   | 184.89            | Cum. | 15.300                         | 2828.82   |
|         | Filling C.S. Sand   | 1634.57           | Cum. | 49.500                         | 80911.22  |
| 2.6     | Supply and filling of 40 mm HBSJ  | 1318.79           | Cum. | 6.400                          | 8440.26   |
| 2.7     | Supply and filling of 20 mm HBSJ  | 1737.99           | Cum. | 6.400                          | 11123.14  |
| 3.1     | C.C.1:5:10 for Foundation & Basement  | 4987.45           | Cum. | 73.600                         | 367076.32 |
| 3.2     | P.C.C. 1:2:4 for Foundation & Basement and other similar works                                      | 6538.90           | Cum. | 71.300                         | 466223.57 |
| 3.3     | P.C.C. 1:8:16 using 20 mm broken brick jelly  | 4460.77           | Cum. | 0.100                          | 446.08    |
| 7.2     | Supply and fixing of <b>Bituminous filler pad</b> , 20 mm tk. for expansion joint                   | 719.00            | Sqm. | 78.000                         | 56082.00  |
| 13.1    | Filling with Excavated Earth  | 42.85             | Cum. | 35.600                         | 1525.46   |
| 21.2    | <b>Teak wood Wrought &amp; Put up</b>   |                   |      |                                |           |
|         | a. T.W. over 2 m & below 3 m  | 126659.00         | Cum. | 0.063                          | 7979.52   |
|         | b. T.W. below 2 m length.   | 114459.00         | Cum. | 0.041                          | 4692.82   |
| 23.3    | S&F of Magnetic door catches  | 52.00             | Each | 13.000                         | 676.00    |
| 24.0    | Manufacturing & supply of steel windows (Weight basis)  | 69.60             | Kg.  | 1590.400                       | 110691.84 |
| 25.0    | M.S.Holdfast  | 9.60              | Each | 78.000                         | 748.80    |
| 26.0    | Flooring in C.C.1:5:10  | 4987.45           | Cum. | 12.800                         | 63839.36  |
| 28.0    | <b>Floor plastering</b> in C.M. 1:4, 20 mm tk.  | 551.81            | Sqm. | 71.600                         | 39509.60  |
| 30.0    | Ellispattern  | 480.48            | Sqm. | 34.900                         | 16768.75  |
| 31.0    | Weathering course   | 4198.27           | Cum. | 52.800                         | 221668.66 |
| 33.0    | Plastering in C.M. 1:5, 12 mm tk.   | 270.30            | Sqm. | 2604.400                       | 703969.32 |
| 34.0    | Plastering in C.M. 1:4, 12 mm tk.   | 276.38            | Sqm. | 206.900                        | 57183.02  |
| 35.0    | Spl. Ceiling plastering in C.M. 1:3, 10 mm tk.  | 311.00            | Sqm. | 623.100                        | 193784.10 |
| 36.0    | <b>Cement mortar Border in C.M. 1:5, 12 mm tk.</b>  |                   |      |                                |           |
|         | a. 150 mm wide  | 87.59             | Rmt  | 316.600                        | 27730.99  |
|         | b. 75 mm wide   | 57.20             | Rmt  | 249.400                        | 14265.68  |
|         | c. 50 mm wide   | 42.62             | Rmt  | 116.700                        | 4973.75   |

| Sl. No. | Description of Work   | Rate<br>(M- sand) | Unit | Total Qty.<br>(Building + Dev) |          |
|---------|---|-------------------|------|--------------------------------|----------|
|         |   |                   |      | Qty                            | Amount   |
| 37.1    | White washing 3 coats (slaked)                                  | 49.68             | Sqm. | 623.100                        | 30955.61 |
| 39.0    | M.s Grills  | 70.15             | Kg.  | 1227.000                       | 86074.05 |
| 40.0    | Painting - New "wood work"                                      | 248.88            | Sqm. | 71.000                         | 17670.48 |
| 41.0    | Painting - New "iron work"                                      | 147.11            | Sqm. | 299.800                        | 44103.58 |
| 46.0    | S & F 20 mm dia Alu. Hanger Rod                                 | 58.00             | Rmt  | 3.600                          | 208.80   |
| 47.0    | S & F Alu Towel rail 75 cm long                                 | 95.00             | Each | 11.000                         | 1045.00  |
| 48.0    | S & F 5 pin Coat stand  | 55.00             | Each | 31.000                         | 1705.00  |
| 49.0    | S & F chromium plated 8 guage Picture Hook                      | 1.50              | Each | 90.000                         | 135.00   |
| 50.2    | Providing precast Kerb stone in C.C. 1:3:6, 450 x 300 x 150 mm  | 270.32            | Rmt  | 219.400                        | 59308.21 |
| 50.3    | Supply and planting avenue trees                                | 372.34            | Each | 4.000                          | 1489.36  |
| 50.4    | Providing Tree guard  | 927.75            | Each | 4.000                          | 3711.00  |
| 50.5    | Supplying, Fabricating and erection of M.S Scheme Name board    | 19993.50          | Each | 1.000                          | 19993.50 |
| 52.0    | <b>PVC Water supply (ASTM)</b>                                  |                   |      |                                |          |
|         | a. 32 mm dia  | 271.54            | Rmt  | 45.000                         | 12219.30 |
|         | b. 25 mm dia  | 253.25            | Rmt  | 165.000                        | 41786.25 |
| 52.1    | G.I Pipe 20mm dia for Hot water line (Fully Concealed in walls) | 332.89            | Rmt  | 14.700                         | 4893.48  |
| 59.5    | Gully Trap using Kiln burnt country bricks 22 x 11 x 7 cm.      | 2170.08           | Each | 9.000                          | 19530.72 |
| 60.0    | PVC Nahani trap (4way/2way)                                     | 160.00            | Each | 17.000                         | 2720.00  |
| 61.2    | <b>Stoneware pipe dry condition</b>                             |                   |      |                                |          |
|         | a. 100 mm dia   | 255.84            | Rmt  | 22.000                         | 5628.48  |
| 69.0    | 15 Amp. Power plug  | 150.00            | Each | 23.000                         | 3450.00  |
| 72.0    | Box type Fibre Fan hook   | 33.90             | Each | 57.000                         | 1932.30  |
| 73.10   | 6 way - D.B.  | 4252.00           | Each | 1.000                          | 4252.00  |
| 74.0    | Charges for fixing of "Fan"                                     | 602.50            | Each | 33.000                         | 19882.50 |
| 76.0    | 8 SWG wire  | 27.13             | Rmt  | 20.000                         | 542.60   |
| 77.3    | S&F of TV/Telephone line Socket                                 | 77.00             | Each | 10.000                         | 770.00   |
| 77.4    | S&F of 20mm dia PVC pipe for TV/Telephone line                  | 90.78             | Rmt  | 138.000                        | 12527.64 |
| 78.0    | Earthing Station IS3043 (Type I)                                | 2997.00           | Each | 1.000                          | 2997.00  |
| 79.2    | 3 Nos.of 30Amps - Fuse Unit                                     | 852.60            | Each | 1.000                          | 852.60   |
| 81.0    | Meter cupboard  | 2650.40           | Sqm  | 1.100                          | 2915.44  |

| Sl. No. | Description of Work  | Rate<br>(M- sand) | Unit           | Total Qty.<br>(Building + Dev) |           |
|---------|--|-------------------|----------------|--------------------------------|-----------|
|         |  |                   |                | Qty                            | Amount    |
| 86.0    | Anti termite treatment   | 34.00             | Sqm.           | 178.000                        | 6052.00   |
|         | Supplying and fixing of Three phase ELCB   | 3091.30           |                | 3.000                          | 9273.90   |
| 112.0   | S & F of Exsaust Fan 300 mm dia  | 2364.00           | Each           | 10.000                         | 23640.00  |
|         | <b>Brick work in C.M. 1:5 (F&amp; B) using Fly ash bricks of size 23 x 11 x 7 cm</b>                           | 7342.71           | Cum.           | 92.100                         | 676263.59 |
|         | <b>Brick work in C.M. 1:6 using Fly ash bricks of size 23 x 11 x 7 cm</b>                                      |                   |                |                                |           |
|         | a. In Ground Floor   | 7357.01           | Cum.           | 14.100                         | 103733.84 |
|         | b. In First Floor  | 7532.13           | Cum.           | 53.600                         | 403722.17 |
|         | c. In Second Floor   | 7707.25           | Cum.           | 65.100                         | 501741.98 |
|         | d. In Third Floor  | 7882.37           | Cum.           | 9.600                          | 75670.75  |
|         | <b>Brick partition work in C.M. 1:4 using Fly ash bricks of size 23 x 11 x 7 cm , 110 mm tk (B.P.)</b>         |                   |                |                                |           |
|         | a. Foundation & basement   | 929.55            | M <sup>2</sup> |                                |           |
|         | b. In Ground Floor   | 939.10            | M <sup>2</sup> | 15.100                         | 14180.41  |
|         | c. In First Floor  | 958.36            | M <sup>2</sup> | 60.500                         | 57980.78  |
|         | d. In Second Floor   | 977.62            | M <sup>2</sup> | 44.100                         | 43113.04  |
|         | <b>Brick work in C.M. 1:4 using using Fly ash burnt bricks bricks of size 23 x 11 x 7 cm , 70 mm tk (B.P.)</b> |                   |                |                                |           |
|         | a. In Ground Floor   | 637.57            | Sqm            | 2.600                          | 1657.68   |
|         | b. In First Floor  | 649.83            | Sqm            | 18.900                         | 12281.79  |
|         | c. In Second Floor   | 662.09            | Sqm            | 28.400                         | 18803.36  |
| 14.I    | <b>Precast Cupboard slab 20 mm tk.using standardised concrete mix M20 (annexure)</b>                           |                   |                |                                |           |
|         | a. In Ground floor/ stilt floor  | 1618.73           | Sqm.           | 2.900                          | 4694.32   |
|         | b. In First floor  | 1623.97           | Sqm.           | 17.000                         | 27607.49  |
|         | c. In Second floor   | 1629.21           | Sqm.           | 31.900                         | 51971.80  |
| 14.II   | <b>Precast cupboard slab 40 mm tkusing standardised concrete mix M20 (annexure)</b>                            |                   |                |                                |           |
|         | b. In Ground floor/ stilt floor  | 1775.09           | Sqm.           | 0.800                          | 1420.07   |
|         | c. In First floor  | 1785.58           | Sqm.           | 4.300                          | 7677.99   |
|         | d. In Second floor   | 1796.07           | Sqm.           | 8.000                          | 14368.56  |
| 8.2.3.2 | <b>Standardised concrete Mix M20 Grade Concrete</b>  |                   |                |                                |           |
|         | a. In Foundation and basement  | 8218.43           | Cum            | 71.100                         | 584330.37 |
|         | b. Ground floor/ stilt floor   | 8350.27           | Cum            | 43.000                         | 359061.61 |
|         | c. In First Floor  | 8609.98           | Cum            | 42.500                         | 365924.15 |
|         | d. In Second Floor   | 8869.69           | Cum            | 40.900                         | 362770.32 |
|         | e. In Third floor  | 9129.40           | Cum            | 11.500                         | 104988.10 |
|         | Supplying and filling stone dust   | 308.01            | Cum.           | 645.100                        | 198697.25 |
|         | Supplying and filling Quarry Rubbish   | 299.96            | Cum.           | 3000.000                       | 899880.00 |
|         | Plastering with CM 1:3, 12mm with WPC  | 295.07            | Sqm            | 65.700                         | 19386.10  |
| 18.1    | <b>Formwork using M.S.Sheet</b>  |                   |                |                                |           |
|         | a.For Column footings,plinth beam,Grade beam,Raftbeam,Raft slab etc.,  | 923.99            | Sqm            | 260.900                        | 241068.99 |

| Sl. No. | Description of Work   | Rate<br>(M- sand) | Unit | Total Qty.<br>(Building + Dev) |            |
|---------|---|-------------------|------|--------------------------------|------------|
|         |   |                   |      | Qty                            | Amount     |
|         | b.Plain surfaces such as Roof slab,floor slab,Beams,lintels,lofts,sill slab,staircase,portico slab and other similar works                          | 1027.42           | Sqm  | 981.100                        | 1008001.76 |
|         | c.For Square and rectangular columns and small quantities   | 1232.90           | Sqm  | 345.000                        | 425350.50  |
|         | d.Vertical wall   | 1130.16           | Sqm  | 391.900                        | 442909.70  |
| 21.6    | <b>R.C.C.Door frames of size 100 x 75mm with one edge grooves size 't' x 20 mm using M20 grade ( with out vibrating charges)</b>                    |                   |      |                                |            |
|         | c. 1000 x 2100 mm   | 3009.32           | Each | 13.000                         | 39121.16   |
|         | Providing T.W double leaf shutter with 18mm thick BWR Plywood for Cupboard / ward robes shutters (Rest room) 3000x2100mm                            | 3827.88           | Sqm  |                                |            |
|         | T.W. frame & TW styles & rails with 9mm thick BWR double leaf shutters for cup board/ ward robes including two coat enamel paint & one coat primer. | 4412.45           | Sqm  | 29.000                         | 127961.05  |
|         | TW frame & TW styles & rails with 9mm tk BWR double leaf shutter for ward robe / cup board  |                   |      |                                |            |
|         | a) men rest room cupboard of size 3.93mx2.10m   | 5860.70           | Sqm  | 8.300                          | 48643.81   |
|         | b) Women Rest room Cupboard 3.35mx2.10m   | 5794.87           | Sqm  | 7.100                          | 41143.58   |
|         | TW double leaves shutter of size with brass fittings a.1800 x 2100mm <b>For PS</b>  | 8756.63           | Sqm  | 3.500                          | 30648.21   |
|         | TW styles & rails with 9mm thick BWR single leaf shutters with brass screws size of 1000 x 2100 mm  | 3489.37           | Sqm  | 22.200                         | 77464.01   |
| 21.5.2  | Supply and Fixing Soild UPVC door Shutter with frame  | 3325.00           | Sqm  | 17.800                         | 59185.00   |
| 23.2.1  | 4mm thick pin headed Glass panels with Aluminium beedings   | 857.30            | Sqm  | 48.300                         | 41407.59   |
| 29.8    | Glazed tiles using Grout (Tile Joint Filler)  | 1463.88           | Sqm  | 120.000                        | 175665.60  |
| 29.9    | Floor ceramic tiles (Anti-skid) using Grout (Tile Joint Filler).  | 1279.13           | Sqm  | 30.500                         | 39013.47   |
| 43.0    | <b>Fabrication of Mild steel / RTS grills (without cement slurry) for all sizes of rods.</b>  | 91904.50          | MT   | 28.170                         | 2588949.77 |
| 44.6    | PVC SWR 110 mm dia with ISI mark type- A for <b>Rain water down fall pipe</b>   | 357.54            | Rmt  | 74.500                         | 26636.73   |
| 50.6    | Precast slab 50 mm tk.in C.C. 1:3:6 with fibre  | 421.98            | Sqm  | 87.800                         | 37049.84   |
| 52.4    | 20mm dia PVC water supply ASTM pipe (fully consealed in walls)  | 250.47            | Rmt  | 71.600                         | 17933.65   |
| 53.4    | S&F of C.I Manhole cover 60 x 60 cm (50kg weight )  | 1864.00           | Each | 1.000                          | 1864.00    |
|         | Wash Hand Basin of size 550 x 400 mm (White without Pedestal)   | 3495.67           | Each | 7.000                          | 24469.69   |
| 58.3    | <b>PVC SWR pipe (Soil line) with ISI mark - type 'B'.</b>   |                   |      |                                |            |
|         | a. 110 mm dia.  | 758.37            | Rmt  | 210.500                        | 159636.89  |
|         | b. 75 mm dia.   | 641.07            | Rmt  | 108.700                        | 69684.31   |
| 58.4    | Supplying, Laying & Concealing the 50mm dia PVC ( SWR) pipe with ISI mark type - 'B' with relevant specials.  | 115.30            | Rmt  | 10.500                         | 1210.65    |



| Sl. No. | Description of Work  | Rate<br>(M- sand) | Unit | Total Qty.<br>(Building + Dev) |           |
|---------|--|-------------------|------|--------------------------------|-----------|
|         |  |                   |      | Qty                            | Amount    |
| 58.5    | PVC(SWR) pipe with ISI mark - type 'A' for Ventilating shaft with cowl   | 454.00            | Each | 2.000                          | 908.00    |
|         | <b>Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.( Ordinary)</b>  |                   |      |                                |           |
|         | a. Light point with ceiling rose   | 1693.00           | Each | 81.000                         | 137133.00 |
|         | b. Light point without ceiling rose  | 1696.00           | Each | 40.000                         | 67840.00  |
|         | c. Calling bell point with Buzzer/Calling bell   | 1733.00           | Each | 2.000                          | 3466.00   |
| 65.1    | Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for <b>Fan point</b> .  | 1768.00           | Each | 33.000                         | 58344.00  |
| 66.1    | Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for <b>Staircase Light Point</b> .                                | 3177.00           | Each | 4.000                          | 12708.00  |
|         | Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for <b>5 amps 5 pin plug socket point @ Switch Board Itself</b> . | 869.50            | Each | 36.000                         | 31302.00  |
| 68.2    | Wiring with 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990 for <b>5 amps 5 pin plug socket point @ Convenient Places</b> .   | 1175.00           | Each | 42.000                         | 49350.00  |
|         | Supply and delivery of <b>48" (1200 mm) Fan</b> with ISI mark with Eletronic Dimmer  | 1552.70           | Each | 33.000                         | 51239.10  |
|         | Run of 2 Wires of 4 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.  | 273.00            | Rmt  | 384.200                        | 104886.60 |
| 77.5    | Run of 2 Wires of 1.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.  | 215.00            | Rmt  | 144.400                        | 31046.00  |
|         | Run of 2 Wires of 2.5 sqmm PVC insulated single core multi strand fire retardant flexible copper cable with ISI mark confirming IS: 694:1990.  | 233.00            | Rmt  | 244.000                        | 56852.00  |
| 44.2    | <b>Rain water harvesting using defunct borewell and providing perforated cover slab</b>  |                   |      |                                |           |
|         | a). Providing pit (M20)  | 2203.48           | Each | 5.000                          | 11017.40  |
|         | b) Augering 30cm dia   | 528.97            | Rmt  | 20.000                         | 10579.40  |
|         | Providing Rain water Harvesting well ring of Circular shape of 90mm dia, 60cm depth using Standardised Mix design M20  | 1470.86           | Each | 5.000                          | 7354.30   |
| 344.2   | S&F of Bevelled edge mirror 500 x 400 x 5.5mm  | 398.30            | Each | 10.000                         | 3983.00   |
| 71.2    | Supplying and fixing of 32 AMPS Triple pole main switch  | 2196.00           | Each | 1.000                          | 2196.00   |
|         | Exterior Emulsion PAINT including primer for outer walls   | 250.52            | Sqm  | 1371.100                       | 343487.97 |
| 38.4.1  | Two coat plastic emulsion paint  | 248.97            | Sqm  | 1662.000                       | 413788.14 |
| 448.2   | Providing PVC Tee with end cap   | 104.50            | Each | 7.000                          | 731.50    |

| Sl. No. | Description of Work   | Rate<br>(M- sand) | Unit | Total Qty.<br>(Building + Dev) |           |
|---------|---|-------------------|------|--------------------------------|-----------|
|         |   |                   |      | Qty                            | Amount    |
|         | Granite Tiles flooring (Ruby red) using 2'x1', 10mm tk  | 1841.88           | Sqm  | 100.900                        | 185845.69 |
|         | Vitrified Tiles flooring (Ivory)  | 1322.57           | Sqm  | 206.400                        | 272978.45 |
|         | Concrete Designer Tiles flooring  | 1552.50           | Sqm  | 70.400                         | 109296.00 |
|         | MS door of Size 1000 x 2100mm   | 9385.85           | each | 2.000                          | 18771.70  |
|         | MS Ventilator of Size 1350 x 600mm  | 4297.06           | Sqm  | 1.700                          | 7305.00   |
|         | 741.1) Supply and fixing of 20 Amps DP plug and socket in sheet enclosure with 32 A DP MCB in Flush with wall with earth connection ( For AC Plug ) | 1858.00           | Each | 5.000                          | 9290.00   |
|         | Supplying and laying of 3.5 core 35 sq.mm PVC armoured LTUG cable (below GL) SD-205/2020-2021   | 599.00            | RMT  | 40.000                         | 23960.00  |
|         | Supplying and laying of 3.5 core 35 sq.mm PVC armoured LTUG cable (above GL) SD-223/2020-2021   | 482.00            | RMT  | 15.000                         | 7230.00   |
|         | Supplying and fixing of brass cable gland suitable for 3.5 core 35 Sqmm PVC armoured LTUG cable SD-187/2020-2021                                    | 439.00            | Each | 2.000                          | 878.00    |
|         | Finishing the top of Terrace floor with one course of solar reflective Ceramic tiles with base concrete   | 1270.86           | Sqm. | 195.400                        | 248326.04 |
|         | <b>UPVC Non Pressure pipe of SN8 SDR 34 ( S 16.5) as per IS 15328/2003</b>  |                   |      |                                |           |
|         | a. 110 mm UPVC Non Pressure pipe  | 500.59            | Rmt  | 65.000                         | 32538.35  |
|         | b. 160 mm UPVC Non Pressure pipe  | 824.81            | Rmt  | 20.000                         | 16496.20  |
|         | <b>PVC Specials as per IS 10124/1982 Part II</b>  |                   |      |                                |           |
|         | a. 110 mm dia PVC bend (TWAD SR 19-20 P-19 S.No-4 )   | 175.20            | Each | 6.000                          | 1051.20   |
|         | <b>PVC Equal Tee as per BIS 7834/1975</b>   |                   |      |                                |           |
|         | a. 110 mm dia PVC Equal tee(TWAD SR 19-20 P-19 S.No-9 )   | 197.50            | Each | 6.000                          | 1185.00   |
|         | S & F of Indian Water closet white glazed (Oriya type) of size 580 x 440mm with PVC SWR grade ' P' or "S' trap - in G.F.                            | 3534.82           | Each | 2.000                          | 7069.64   |
|         | S & F of Indian Water closet white glazed (Oriya type) of size 580 x 440mm with PVC SWR grade ' P' or "S' trap- Other than G.F.                     | 5608.22           | Each | 4.000                          | 22432.88  |
|         | S & F of E.W.C.(White) 500 mm with PVC SWR grade "P" or "S" TRAP  | 7516.55           | Each | 5.000                          | 37582.75  |
|         | S & F of 15mm dia half turn CP long body tap  | 503.00            | Each | 14.000                         | 7042.00   |
|         | S & F of 15mm dia half turn CP short body tap   | 455.00            | Each | 11.000                         | 5005.00   |
|         | Supply and fixing of 9 watts LED bulb (qtn)   | 135.00            | Each | 40.000                         | 5400.00   |
|         | Supply and fixing of 4' 18 watts LED Tube Light   | 707.00            | Each | 81.000                         | 57267.00  |
|         | Supply and fixing of Bulk Head fitting suitable for 12W LED Bulb  | 530.00            | Each | 6.000                          | 3180.00   |
|         | Supply, fiing of 25W LED street light etc.,   | 3459.00           | Each | 6.000                          | 20754.00  |
|         | <b>Wallputty ( one coat)</b>  | 103.16            | Sqm  | 122.100                        | 12595.84  |

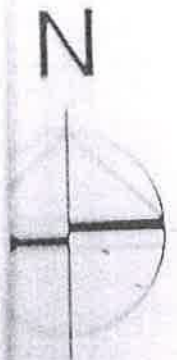
| Sl. No. | Description of Work   | Rate<br>(M- sand) | Unit   | Total Qty.<br>(Building + Dev) |           |
|---------|---|-------------------|--------|--------------------------------|-----------|
|         |   |                   |        | Qty                            | Amount    |
|         | <b>Providing Borewell and Pump Set arrangements</b>   |                   |        |                                |           |
|         | Drilling of 150mm dia borewell in Hard rock   |                   |        |                                |           |
|         | (a)Below ground level   | 551.04            | Rmt    | 170.000                        | 93676.80  |
|         | Supply and delivery of 150mm OD of PVC casing pipes (6kg/cm <sup>2</sup> ) as per IS 12818 11992 of approved quality for borewells with average wall thickness of 1mm and inner/outer threaded ends in standard length of 3m including transporting charges to site of work and all other taxes etc.  | 644.50            | Rmt    | 62.000                         | 39959.00  |
|         | TWAD SOR - 2020-2021, Item 1.1, Sl.No.1   |                   |        |                                |           |
|         | Supply and delivery of 150mm OD ribbed screen pipes (6kg/cm <sup>2</sup> ) as per IS 12818 11992 of approved quality for borewells with average wall thickness of 8.0mm and inner/outer threaded ends in standard length of 1m to 8mm both in horizontal and vertical cutting including transporting charges to site of work and all other taxes etc., all complete as directed by the departmental officers. | 1004.50           | Rmt    | 128.000                        | 128576.00 |
|         | TWAD SOR - 2020-2021, Item 1.1, Sl.No.3   |                   |        |                                |           |
|         | Supplying and fixing of 200mm CS pvc casing pipe as per IS 12818/2010 with excise duty etc., all complete   | 1113.20           | Rmt    | 26.000                         | 28943.20  |
|         | TWAD SOR - 2020-2021 Item 1.1, Sl.No.4  |                   |        |                                |           |
|         | Labour Charges for inserting PVC casing pipes assembly (with slots or without slots) in the drilled hole including jointing the pipes with PVC Couplers with Cement paste etc., complete supply and packing the annular space with pebbles of size quality as approved by the department officials  |                   |        |                                |           |
|         | (a) 150mm dia casing pipes assembly   | 369.60            | Rmt    | 170.000                        | 62832.00  |
|         | TWAD SOR - 2020-2021, Item 13.a, (i)  |                   |        |                                |           |
|         | (b) 200mm dia casing pipes assembly   | 380.60            | Rmt    | 6.000                          | 2283.60   |
|         | TWAD SOR - 2020-2021, Item 13.a, (ii)   |                   |        |                                |           |
|         | Charges for developing the borewell for the entire depth with air compressor of 300cfm capacity [Minimum 8 hours] including transportation, labour and fuel charges for compressor and conducting yield tests by V-notch method etc., all complete as directed by the departmental officers.  | 2490.40           | Houors | 8.000                          | 19923.20  |
|         | TWAD SOR - 2020-2021, Item No. 14.e   |                   |        |                                |           |
|         | Supply and fixing of PVC 160mm dia top end cap of approved make 6.1mm thick with inner thread etc., all complete as directed by the departmental officers.  | 104.50            | Each   | 1.000                          | 104.50    |
|         | TWAD SOR- 2020-2021, It. 1.5, Sl.No. 11   |                   |        |                                |           |
|         | Supplying and delivery of the following dia HDPE pipes of approved make ISI Suitable for borewell including the cost of suitable HDPE etc. all complete and as directed by the departmental officers. (The HDPE pipe should be got approved from the EE before use).  |                   |        |                                |           |
|         | a). 40 mm dia HDPE 10 Kg/cm <sup>2</sup> pipe   | 122.80            | Rmt    | 180.000                        | 22104.00  |
|         | PWD SOR -2020-2021,P.No.104,Sl.No.369 D, (d)  |                   |        |                                |           |

| Sl. No. | Description of Work   | Rate<br>(M- sand) | Unit | Total Qty.<br>(Building + Dev) |          |
|---------|---|-------------------|------|--------------------------------|----------|
|         |   |                   |      | Qty                            | Amount   |
|         | Supplying, laying, fixing and jointing the following UPVC pipes as per D- 1785 of schedule 40 of wall thickness not less than the specified in IS 4985 Suitable for plumbing by threading of wall thickness including the cost of suitable PVC/GI specials GM Specials like Elbow , tee reducers ,plug , union , bend, coupler, nipple/ GM gate value, check and wheel value etc. wherever required below Ground level including necessary earth work excavation, refilling the trenches to alignment and gradient cost of teflon tape and redoing the chipped of masonry etc. as directed by the departmental officers. (The pvc pipe should be got approved from the Executive Engineer before laying). |                   |      |                                |          |
|         | b) 40 mm dia UPVC pipes   | 336.61            | Rmt  | 45.000                         | 15147.45 |
|         | c) 32 mm dia UPVC pipes   | 323.41            | Rmt  | 45.000                         | 14553.45 |
|         | Supplying and delivery of following materials of best approved quality for erection of submersible pumpset etc.. all complete and as directed by the departmental officers.   |                   |      |                                |          |
|         | a) M.S clamp set TWAD 50 mm   | 237.00            | Each | 1.000                          | 237.00   |
|         | TWAD SOR-2020-2021, It. 5.1,b Sl.No. 24   |                   |      |                                |          |
|         | b) Nylon rope for Bore well   | 61.80             | Rmt  | 200.000                        | 12360.00 |
|         | PWD SOR-2020-2021, P.No. 105, Sl.No. 383  |                   |      |                                |          |
|         | Supply and Delivery of Submersible motor Pumpset with ISI mark IS 8034 without Panel Board of 3H.P capacity electric motor pump set with accessories at bore well for Single phase operation etc.,all complete and as directed by the departmental officers.(The brand of pumpset should got approved by the Executive Engineer before erection).   | 37380.00          | Each | 1.000                          | 37380.00 |
|         | Labour charges for the erection of submersible pumpset in Borewell/open well including fixing and jointing submersible cable with proper clamps upto the starter to required depth and also fixing of riser pipes to the required depth valves erection clamps, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPICN switches starter, Voltmeter, Ammeter, three pilot (indicating) lamps capacitor single phasing preventor, water level guard and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumpset and trial run for 10 days.   | 11056.10          | Each | 1.000                          | 11056.10 |
|         | TWAD SOR- 2020-2021, It. 17, C (i)  |                   |      |                                |          |
|         | Supplying and laying 3 core 4 sqmm FLAT COPPER CABLE with ISI mark including cost of all materials specials etc. all complete.  | 194.00            | Rmt  | 200.000                        | 38800.00 |
|         | TWAD SOR-2020-2021, It. 12.1, Sl.No. 3  |                   |      |                                |          |
|         | Supply and delivery of MS Fabricated DOL panel control board with ISI Mark for single phase wall moulded type Ammeter, voltmeter ON/OFF Switch etc. complete and as directed by the departmental officers.  | 7635.00           | Each | 1.000                          | 7635.00  |
|         | TWAD SOR-2020-2021, Item No. 11.3   |                   |      |                                |          |
|         | Supplying and fixing the following Specials.  |                   |      |                                |          |
|         | a. 50 mm non return valve   | 2498.00           | Each | 1.000                          | 2498.00  |

| Sl. No. | Description of Work  | Rate<br>(M- sand) | Unit | Total Qty.<br>(Building + Dev) |                    |
|---------|--|-------------------|------|--------------------------------|--------------------|
|         |  |                   |      | Qty                            | Amount             |
|         | Supplying and fixing 1 No of 450 x 375 x 20 mm thick TW plank well varnished with 3 No 32 amps 500 volts fuse unit and 1 No of copper earth plate of suitable size bolts and nuts on walls for EB service connections including cost of all materials, etc., all complete.             | 1348.00           | Each | 2.000                          | 2696.00            |
|         | Supplying and delivery of following G.I specials & plumbing fittings required for erection of pumpset Confirming to I.S Specifications etc., all complete and as directed by the departmental officers ( The materials quality & brand should be got approved from the EE before use ) |                   |      |                                |                    |
|         | a. 40mm GM gate valve  | 977.00            | Nos  | 2.000                          | 1954.00            |
|         | b. 32mm GM gate valve  | 760.00            | Nos  | 2.000                          | 1520.00            |
|         | Supply and delivery at site and fixing of SFRC manhole cover with frame with locking arrangement of clear opening heavy duty (35 M.T Capacity) to with stand any type of impact load if any, confirming to I.S.I specifications and as directed by the departmental officers           |                   |      |                                |                    |
|         | a. 600 x 600mm Rectangular   | 2701.00           | Nos  | 16.000                         | 43216.00           |
|         | <b>Numbering &amp; lettering and Fire Extinguisher</b>   |                   |      |                                |                    |
|         | Supplying and fixing of 18" height TNPHC Emblem of with approved colour powder coat in finishing matt including cost of materials etc., all complete   | 4200.00           | Each | 1.000                          | 4200.00            |
|         | Supplying and fixing of 12" Height Aluminium letters following height with approved coloured powder coat finishing matt including cost of materials etc., all complete   | 840.00            | Each | 25.000                         | 21000.00           |
|         | Supplying and fixing of 9" Height Aluminium letters following height with approved coloured powder coat finishing matt including cost of materials etc., all complete  | 1179.00           | Each | 14.000                         | 16506.00           |
|         | Supplying and fixing of 20" X 5" size plastic foam name plate with vinyl cutting letter with approved colours including cost of labour charges for the finishing etc., complete.   | 320.00            | Each | 20.000                         | 6400.00            |
|         | Supply and fixing of 24"x 8" plastic foam name plate with vinyl cutting letters RWH Board with approved colour etc..complete and as directed by the departmental officers.   | 450.00            | Each | 1.000                          | 450.00             |
|         | Supplying and fixing of Safety First fire 4Kg (ABC type )Fire Extinguisher Mono Ammonium phosphate powder, Stored pressure type, pressure guage, Gross weight 8 Kg including delivery and installation charges etc.. all complete and as directed by the departmental officers.        | 5248.00           | Each | 1.000                          | 5248.00            |
|         | Supplying and fixing of Safety first fire 4.5Kg ,Co2 gas type fire extinguisher, Easy weight management ,used Unused mechanism, Gross weight 19.1 kg including delivery and installation charges etc.. all complete and as directed by the departmental officers                       | 8748.00           | Each | 1.000                          | 8748.00            |
|         | <b>Total</b>   |                   |      |                                | <b>16809377.01</b> |







TENTATIVE LAYOUT

PROPOSED URBAN POLICE STATION BUILDING AT OTTERI AT CHENGALPATTU DISTRICT

G.P. Pongal  
15/5/23  
A.E. on-II

EXECUTIVE ENGINEER  
CHENNAI DIVISION - II  
T.N.P.H.C Ltd  
Avadi, Chennai - 600054.

Chief Engineer  
Tamilnadu Police Housing Corporation Ltd  
Chennai - 600 010