

**MIRA-BHAYANDAR MUNICIPAL CORPORATION**  
**SCHEDULE 'B'**

**NAME OF WORK : Supply, Installation, Testing, Commissioning of Electrification work at Western Hotel Junction At Western Express Highway No. 48 in MBMC Area.**

| Item No | Quantity as per Sanctioned Estimate | Item of Work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Estimated Rate |     |          | Unit | Total Amount according to estimated quantities | Specification |         | Additional Specification |
|---------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|----------|------|------------------------------------------------|---------------|---------|--------------------------|
|         |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | In Figures     |     | In Words |      |                                                | Clause No     | Page No |                          |
|         |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rs.            | Ps. | Rs.      |      |                                                |               |         |                          |
| 1       | 2                                   | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4              | 5   | 6        | 7    | 8                                              | 9             | 10      | 11                       |
| 1       | 0.00                                | ITEM NO.1<br>Supply of advanced micrprocessor based adaptive traffic signal controller housed in M.S. 16 SWG fabrication, weather proof, vandal proof, M. steel 16 guage cabinet passivated and painted with appropriate colour separate access to police control incorporating for special features like hardware & software conflict monitoring 16 signal groups and capable to directly communicate with higher form of traffic control system such as cordinated with or adjacent controller | 350000         | 0   | 350000   | Each | 22802                                          |               |         | As Above                 |
| 2       | 0.00                                | ITEM NO.2<br>Construction of signal controller foundation upto 600mm height above ground level and 600 mm below ground level on C.C. M20 grade pedestal, having size (LXBXH) with fixing of SS304 nut bolts for controller cabinet & Power supply box cabinet (R2-RT-14.30)                                                                                                                                                                                                                      | 7517           | 0   | 7517     | Each | 81924                                          |               |         | As Above                 |
| 3       | 11.00                               | ITEM NO.3<br>Supply of count down timer for non-ATC Signal Junctions (EN12966 Graffic Type a (R2-RT-NATC 1.14)                                                                                                                                                                                                                                                                                                                                                                                   | 25960          | 0   | 25960    | Each | 141425.00                                      |               |         | As Above                 |
| 4       | 11.00                               | ITEM NO.4<br>Earthing<br>Installation and commissionning of count down timer for non-ATC signal juntion (R2-RT-NATC 1.15)                                                                                                                                                                                                                                                                                                                                                                        | 763            | 0   | 763      | Nos. | 32436.00                                       |               |         | As Above                 |

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|----|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|-------|------|----------|--|--|----------|
| 5  | 1.00   | ITEM NO.5<br>Earthing Pit with 50 mm dia. G.I. pipe, 1000 mm long GI pipe (Class B or better) earth pit as per IS 3043. The earth pit shall be provided with watering pipe (Class B) with wire messed funnel, 25x6 GI strip / 8 SWG GI wire up to chamber (wire or strip size as per fault level), disconnecting links with 450 x 450 mm (clear) RCC chamber & heavy duty 3mm thick CI chequered plate cover with hinge & stainless steel bolts. Bentonite/ Charcol & Salt shall be provided for earth pits. Excavation, backfilling, removal of excess soil is included in the scope(R2-RT-ATC 1.18) | 8202  | 0 | 8202  | Each | 19911.00 |  |  | As Above |
| 6  | 410.00 | ITEM NO .6<br>Supply of single120 mm(OD)103.5 mm (ID)Dobule walleed corrugated high density poly ethlene (HDPE)pipes ( etc .(R2-RT-NATC 3.1)                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 224   | 0 | 224   | Each | 4896.00  |  |  | As Above |
| 7  | 410.00 | ITEM NO.7<br>Laying of single120 mm(OD)103.5 mm (ID)Dobule walleed corrugated high density poly ethlene (HDPE)pipes ( etc .(R2-RT-NATC 3.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14    | 0 | 14    | Each | 1802.00  |  |  | As Above |
| 8  | 7.00   | ITEM NO.8<br>Supply of Galvanised Iron Class B Traffic Signal straight pole of 6 mtr height as per Specification (R2-RT-ATC 4.1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14369 | 0 | 14369 | Each | 46711.00 |  |  | As Above |
| 9  | 3.00   | ITEM NO.9<br>Supply of Galvanised Iron Class B Traffic Signal cantilever pole of as per Specification (R2-RT-ATC 4.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 40627 | 0 | 40627 | Each | 31867.00 |  |  | As Above |
| 10 | 10.00  | ITEM NO.10<br>Supply of 2 mm thick 310 mm x 215 mm x 100 mm MS junction box including providing cover with provision to adjust overall height, knock outs on four sides to accept cables of specified sizes and including elmex connector, gland, cable terminations etc(R2-RT-NATC 5.1)                                                                                                                                                                                                                                                                                                              | 1140  | 0 | 1140  | Each | 9306.00  |  |  | As Above |
| 11 | 10.00  | ITEM NO.11<br>installation of 2 mm thick 310 mm x 215 mm x 100 mm MS junction box as described above (R2-RT-NATC 5.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 183   | 0 | 183   | Each | 24318.00 |  |  | As Above |

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|----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|-------|------|-----------|--|--|----------|
| 12 | 0.00  | ITEM NO.12<br>Supply of power supply box 600mm X 400mm X 300mm (HXWXD), with canopy made in welded construction of S.S. 304 material having sheet of thickness 1.6mm with IP 55 protection as per technical specification and as per requirement of power supply authority (R2-RT-NATC 5.4) | 13516 | 0 | 13516 | Each | 2140.00   |  |  | As Above |
| 13 | 0.00  | ITEM NO.13<br>Installation & commissioning of power supply box. (R2-RT-NATC 5.5)                                                                                                                                                                                                            | 2310  | 0 | 2310  | Each | 10632.00  |  |  | As Above |
| 14 | 47.00 | ITEM NO.14<br>Supply of Polycarbonate LED Signal head housing 300 mm dia. as per ATC technical specification and drawing alongwith brackets & accessories etc. (For all type of LED Retrofit (R2-RT-NATC 6.8)                                                                               | 4000  | 0 | 4000  | Each | 359100.00 |  |  | As Above |
| 15 | 10.00 | ITEM NO.15<br>Supply of 300 mm dia – LED retrofit - Red (blow).M2/11 as per Specification                                                                                                                                                                                                   | 5490  | 0 | 5490  | Each | 369510.00 |  |  | As Above |
| 16 | 10.00 | ITEM NO.16<br>Supply of 300 mm dia – LED retrofit - Amber (blow) as per Specification.M2/12                                                                                                                                                                                                 | 5490  | 0 | 5490  | Each | 459800.00 |  |  | As Above |
| 17 | 23.00 | ITEM NO.17<br>Supply of 300 mm dia – LED retrofit - Green (blow) as per Specification.M2/13                                                                                                                                                                                                 | 5911  | 0 | 5911  | Each | 25218.00  |  |  | As Above |
| 18 | 2.00  | ITEM NO.18<br>ISupply of 300 mm dia-Singel Sorce LED retrofit -Amber (Arrow) EN-12368 as per Specification(R2-RT-ATC 6.6)                                                                                                                                                                   | 6490  | 0 | 6490  | Mtr. | 36928.00  |  |  | As Above |
| 19 | 2.00  | ITEM NO.19<br>Supply Of 300 mm dia-No Right Turn /No Left Turn/No stright /No U Turn Aspects by using UV stabilized ink on face plate EN12368 as per specification R2-RT-ATC 6.7                                                                                                            | 3974  |   | 3974  | Each | 48638.00  |  |  | As Above |
| 20 | 32.00 | ITEM NO.20<br>Installation of Polycarbonate LED Signal aspect of 300 mm dia. on standard traffic signal straight pole (R2-RT-NATC 6.15)                                                                                                                                                     | 784   |   | 784   | Each | 60348.00  |  |  | As Above |
| 21 | 15.00 | ITEM NO.21<br>Installation of Polycarbonate LED Signal aspect of 300 mm dia. On standard traffic signal cantilever pole (R2-RT-NATC 6.16)                                                                                                                                                   | 150   |   | 150   | Mtr. | 72058.00  |  |  | As Above |

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| 22 | 0.00   | ITEM NO.22<br>Supply of PVC insulated armoured cable-1<br>Sq.mm. 16 core copper conductor. M2/5                                                                                                                                                                                                                                                                                                     | 452   |  | 452   | Mtr. | 83768.00  |  |  | As Above |
| 23 | 0.00   | ITEM NO.23<br>Supply of PVC insulated armoured cable - 1 Sq.mm. 8 core copper<br>conductor (R2-RT-ATC 7.3)                                                                                                                                                                                                                                                                                          | 129   |  | 129   | Mtr  | 95478.00  |  |  | As Above |
| 24 | 8.00   | ITEM NO.24<br>Excavate and install brick built or equivalent sectional chamber to<br>be450mm (L)X 450mm (B) X 600mm(D) to tie into proposed 120<br>mm ducts/65mm G.I. Pipe in foot path include permanent<br>reinstatement and backfill material as per Technical Specification. M2/34                                                                                                              | 11785 |  | 11785 | Each | 107188.00 |  |  | As Above |
| 25 | 8.00   | ITEM NO.25<br>Supply & installation of FRP Chamber Cover size 510 X 510 X35 mm<br>as per EN 124:2004 for 25 MT load capacity. M2/35                                                                                                                                                                                                                                                                 | 7981  |  | 7981  | Each | 118898.00 |  |  | As Above |
| 26 | 8.00   | ITEM NO.26<br>Supply & installation of FRP Chamber Cover Frame of size 620 (L)<br>X 620(B) X72 (W) mm suitable of FRP cover size 510 X 510 X45 mm<br>as per EN 124:2004 for 25 MT load capacity. M2/36                                                                                                                                                                                              | 3221  |  | 3221  | Each | 130608.00 |  |  | As Above |
| 27 | 0.00   | ITEM NO.27<br>Laying of signal cables (all types including communication cables with<br>multi pairs as described above) in trenches, existing ducts / G.I. Pipes<br>including ferruling, testing etc. but excluding any cable<br>joint,excavation etc.(R2-RT-ATC 7.14)                                                                                                                              | 38    |  | 38    | Each | 142318.00 |  |  | As Above |
| 28 | 340.00 | ITEM NO.28<br>Excavation of trench for traffic signals and VMS boards cables and<br>conduiting as per requirement of the signal junction up to the depth of<br>1000mm below the ground surface and width 500mm in the Carriage<br>way (Asphalt/ Mastic Asphalt/ paver block) including refilling of the<br>trench in carriage way and removal of debris as per the MCGM<br>guidelines.(R2-RT-14.13) | 2514  |  | 2514  | Each | 154028.00 |  |  | As Above |
| 29 | 7.00   | ITEM NO.29<br>Erecting straight pole in pole foundation of concrete M20 grade<br>circular in shape of depth 1.3m below and/or above ground level<br>having dia. Of 300mm only, as per technical specification and drawing<br>no.( RT-14.25)                                                                                                                                                         | 7517  |  | 7517  | Each | 165738.00 |  |  | As Above |

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|----|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|-------|------|-----------|--|--|----------|
| 30 | 3.00 | ITEM NO.30<br>Erecting cantilever pole in pole foundation of concrete M20 grade circular in shape of depth 1.3m below and/or above ground level having dia. Of 450mm only, as per technical specification and drawing no(. RT-14.26) | 6476  |  | 6476  | Mtr  | 177448.00 |  |  | As Above |
| 31 | 1.00 | ITEM NO.31<br>Sealing of controller with bitumen/ oam for achieving IP 55 protection.M2/3                                                                                                                                            | 7132  |  | 7132  | Each | 189158.00 |  |  | As Above |
| 32 | 1.00 | ITEM NO.32<br>Installation, testing and commissioning of all types of controller.M2/2                                                                                                                                                | 16146 |  | 16146 | Each | 200868.00 |  |  | As Above |
| 33 | 1.00 | ITEM NO.33<br>Providing pipe type earthing with 40 mm. dia.G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as specification no.EA-EP                                                                                    | 1500  |  | 1500  | Each | 212578.00 |  |  | As Above |

Contractor /Agency

No.of Correction :

Executive Engineer  
Mira-Bhayandar Municipal Corporation