

## **SCHEDULE OF PARTICULAR**

### **General**

- i) Contractors shall provide in the spaces provided on attached Schedules against relevant items the names of manufacturers, catalogue numbers if any, ratings, dimensions and all other details as relevant.
- ii) Entries such as "LOCAL MANUFACTURE", "TO BE ADVISED LATER", "TO SPECIFICATION REQUIREMENTS" or "TO B.S.S." shall not be entertained and if entered may render the Tender liable for rejection.
- iii) Where Contractors have entered the names of two manufacturers and/or, the works "OR EQUIVALENT", the Engineer's choice of the particular item shall be deemed to be final.
- iv) Where relevant, Contractors shall also attach Catalogues or Brochures for the various items; where such Catalogues or Brochures are not available test certificates or approval letters from the relevant authorities shall be provided to confirm their usage in this country.
- v) Claims by Contractors that equipment and/or materials have been used on other projects and as such that these can be deemed to be approved by the relevant authorities, shall not be entertained.

**SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF STREET LIGHTINGS AT SG LANGAT  
DAM**

**SCHEDULE OF PARTICULAR - SG LANGAT DAM**

| <b>Item No.</b> | <b>Description</b>  | <b>Tender Specification</b>   | <b>Tenderer's Particular</b> |
|-----------------|---|---|------------------------------|
| <b>1</b>        | <b>FEEDER PILLAR</b>  |   |                              |
| <b>A</b>        | <b>Weatherproof Metalclad Feeder Pillar</b><br>Manufacturer / Make:<br>Country of Origin / Manufacture:<br>Type Test:<br>Rated Voltage (V):<br>Panel Thickness<br>Framework Thickness<br>Ingress Protection | To Offer<br>To Offer<br>To Offer<br>230/400<br>14SWG/2.0mm<br>12SWG/2.5mm<br>IP56 |                              |
| <b>B</b>        | <b>Copper Busbars</b><br>Normal Rated Current (A)<br>Dimension (mm)<br>Insulation Type  | 32A/63A/100A/300A<br>25mm x 3mm<br>Tinned copper bars                             |                              |
| <b>C</b>        | <b>Distribution Board</b><br>Manufacturer<br>Local Agent<br>Panel Thickness<br>Framework Thickness<br>Degree of Protection (Indoor)<br>Degree of Protection (Outdoor)                                       | To Offer<br>To Offer<br>14SWG/2.0mm<br>12SWG/2.5mm<br>IP41<br>IP54                |                              |
| <b>D</b>        | <b>Miniature Case Circuit Breaker (MCCB)</b><br>Manufacturer<br>Country of Manufacture<br>Local Agent<br>Model No.<br>Standard To Which Manufactured  | To Offer<br>To Offer<br>To Offer<br>To Offer<br>IEC 60947-2                       |                              |
| <b>E</b>        | <b>Miniature Circuit Breaker (MCB)</b><br>Manufacturer<br>Country of Manufacture<br>Local Agent<br>Model No.<br>Standard To Which Manufactured  | To Offer<br>To Offer<br>To Offer<br>To Offer<br>IEC 60947-2                       |                              |
| <b>F</b>        | <b>Fuse</b><br>Manufacturer<br>Country of Manufacture<br>Local Agent<br>Model No.<br>Rated Voltage (V)  | To Offer<br>To Offer<br>To Offer<br>To Offer<br>To Offer                          |                              |

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|-----------------|--------------------------------|-----------------------------|------------------------------|
| <b>1</b>        | <b>FEEDER PILLAR (Cont'd)</b>  |                             |                              |
| <b>G</b>        | <b>Ammeter</b>                 |                             |                              |
|                 | Manufacturer                   | To Offer                    |                              |
|                 | Country of Manufacture         | To Offer                    |                              |
|                 | Local Agent                    | To Offer                    |                              |
|                 | Model No.                      | To Offer                    |                              |
| <b>H</b>        | <b>Voltmeter</b>               |                             |                              |
|                 | Manufacturer                   | To Offer                    |                              |
|                 | Country of Manufacture         | To Offer                    |                              |
|                 | Local Agent                    | To Offer                    |                              |
|                 | Model No.                      | To Offer                    |                              |
| <b>I</b>        | <b>Contactora</b>              |                             |                              |
|                 | Manufacturer                   | To Offer                    |                              |
|                 | Country of Manufacture         | To Offer                    |                              |
|                 | Local Agent                    | To Offer                    |                              |
|                 | Model No.                      | To Offer                    |                              |
|                 | Rated Voltage (V)              | 230/400                     |                              |
| <b>J</b>        | <b>By-Pass Switch</b>          |                             |                              |
|                 | Manufacturer                   | To Offer                    |                              |
|                 | Country of Manufacture         | To Offer                    |                              |
|                 | Local Agent                    | To Offer                    |                              |
|                 | Model No.                      | To Offer                    |                              |
|                 | Standard Specification         | BS 5419                     |                              |
| <b>K</b>        | <b>Time Switch</b>             |                             |                              |
|                 | Manufacturer                   | To Offer                    |                              |
|                 | Country of Manufacture         | To Offer                    |                              |
|                 | Local Agent                    | To Offer                    |                              |
|                 | Model No.                      | To Offer                    |                              |
|                 | Rated Voltage (V)              | 230                         |                              |
|                 | Rated Current (A)              | 16                          |                              |
|                 | Spring Working Reserve (Hours) | 24hours                     |                              |
|                 | Frequency (Hz)                 | 50Hz                        |                              |

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|-----------------|---|---|------------------------------|
| <b>1</b>        | <b>FEEDER PILLAR (Cont'd)</b>   |   |                              |
| <b>L</b>        | <b>Surge Protection device (SPD)</b><br><br>Manufacturer / Make:<br>Country of Origin / Manufacture:<br>Model/Type:<br>Standard To Which Manufactured<br>Rated Voltage (kV):<br>Short Circuit Current Withstand (ISSCR)<br>Respon Time (ns) | Schneider, Erico<br>(Critec), ABB, Furse,<br>Novaris & Obo<br>Betterman or<br>equivalent<br>To Offer<br>To Offer<br>To Offer<br>IEC 61643-11:2011<br>To Offer<br>To Offer<br>To Offer |                              |
| <b>M</b>        | <b>13A Switch Socket Outlet (Inside Feeder Pillar)</b><br>Manufacturer<br>Country of Manufacture<br>Local Agent<br>Rated Amps (A)<br>IP Rating  | To Offer<br>To Offer<br>To Offer<br>13A<br>IP54   |                              |
| <b>O</b>        | <b>Flourescent Light (Inside Feeder Pillar)</b><br>Manufacturer<br>Country of Manufacture<br>Local Agent<br>Model No.<br>Wattage  | To Offer<br>To Offer<br>To Offer<br>To Offer<br>18W   |                              |

**Note:**

- (i) To attach catalogue with SPAN/ SIRIM/ IKRAM certification, if available.
- (ii) All warranties shall commence from the date of CPC and shall not less than DLP.

.....  
Signature and Official  
Stamp of Tenderer

Date : .....

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|-----------------|--|--|------------------------------|
| <b>2</b>        | <b>CABLE</b>   | Mega Cable, Central Cable, Olympic Cable, Southern Cable or equivalent |                              |
| <b>A</b>        | <b>XLPE/SWA/PVC Cable</b><br>Manufacturer<br>Voltage Rating<br>Standard To Which Manufactured    | To Offer<br>1000/600V<br>IEC 60502                                     |                              |
| <b>B</b>        | <b>PVC/SWA/PVC Cable</b><br>Manufacturer<br>Voltage Rating<br>Standard To Which Manufactured     | To Offer<br>1000/600V<br>IEC 60502                                     |                              |
| <b>C</b>        | <b>PVC Insulated Cable</b><br>Manufacturer<br>Voltage Rating<br>Standard To Which Manufactured   | To Offer<br>1000/600V<br>IEC 60502                                     |                              |
| <b>D</b>        | <b>PVC/PVC Control Cable</b><br>Manufacturer<br>Voltage Rating<br>Standard To Which Manufactured | To Offer<br>1000/600V<br>IEC 60502                                     |                              |
| <b>E</b>        | <b>Overhead Cable</b><br>Manufacturer<br>Voltage Rating<br>Standard To Which Manufactured        | To Offer<br>1000/600V<br>IEC 60502                                     |                              |

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|-----------------|---|--|------------------------------|
| <b>3</b>        | <b>Earthing System</b>  | SAGA, SAG, Pekat, Tokai, Furse, Marsa or equivalent                      |                              |
| <b>A</b>        | <b>Copper Tape</b><br>Manufacturer<br>Country of Manufacture<br>Type/Model<br>Standard To Which Manufactured<br>Material / Finish<br>Size | To Offer<br>To Offer<br>To Offer<br>MS IEC 62305<br>Copper<br>25mm x 3mm |                              |
| <b>B</b>        | <b>Earth Rod</b><br>Manufacturer<br>Country of Manufacture<br>Type/Model<br>Material / Finish<br>Standard To Which Manufactured           | To Offer<br>To Offer<br>To Offer<br>Copper<br>MS IEC 62305               |                              |
| <b>C</b>        | <b>Earth Pit/Chamber</b><br>Manufacturer<br>Country of Manufacture<br>Type/Model<br>Standard To Which Manufactured                        | To Offer<br>To Offer<br>Heavy Duty Concrete<br>MS IEC 62305              |                              |
| <b>D</b>        | <b>Exothermic Welding</b><br>Manufacturer<br>Country of Manufacture<br>Model No.<br>Standard/Technical Specification                      | To Offer<br>To Offer<br>To Offer<br>MS IEC 62305                         |                              |

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|-----------------|--|---|------------------------------|
| <b>4</b>        | <b>Street Lighting/Perimeter Lighting</b>  |   |                              |
| <b>A</b>        | <b>Street Lighting Pole - Concrete</b><br><br>Manufacturer<br>Country of Manufacture<br>Model / Type.<br>Height  | PMW, Winabumi,<br>ZENN HRB or<br>equivalent<br>To Offer<br>To Offer<br>Concrete<br>8m / 9m                              |                              |
| <b>B</b>        | <b>Lighting Pole (Streetlight/Floodlight) - Foldable</b><br><br>Manufacturer<br>Country of Manufacture<br>Model / Type.<br>Height<br>Thickness (mm)        | Galvapole, Lysaght,<br>Mestron or equivalent<br>To Offer<br>To Offer<br>Foldable / HDG<br>6m , 8m, 10m, 12m<br>To Offer |                              |
| <b>C</b>        | <b>Lighting Pole (Streetlight/Floodlight)</b><br><br>Manufacturer<br>Country of Manufacture<br>Model / Type.<br>Height<br>Thickness (mm)                   | Galvapole, Lysaght,<br>Mestron or equivalent<br>To Offer<br>To Offer<br>HDG<br>2m, 3m<br>To Offer                       |                              |
| <b>D</b>        | <b>LED Street Lighting (lantern)</b><br>Manufacturer<br>Country of Manufacture<br>Model No.<br>Colour Temperature<br>Burning Hours<br>IP Rating<br>Wattage | To Offer<br>To Offer<br>To Offer<br>3000K - 4500K<br>50,000 hrs<br>IP65<br>50/100/150/200 (W)                           |                              |
| <b>E</b>        | <b>LED Flood Lighting (lantern)</b><br>Manufacturer<br>Country of Manufacture<br>Model No.<br>Colour Temperature<br>Burning Hours<br>IP Rating<br>Wattage  | To Offer<br>To Offer<br>To Offer<br>3000K - 4500K<br>50,000 hrs<br>IP65<br>100/200 (W)                                  |                              |

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|---------------------|--------------------|---------------------------------|----------------------------------|
|---------------------|--------------------|---------------------------------|----------------------------------|

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|-----------------|----------------------------------|---|------------------------------|
| <b>5</b>        | <b>OTHERS</b>                    |   |                              |
| <b>A</b>        | <b>GI Pipe</b>                   | Southern Pipe,<br>Maruichi, Pipe Fab<br><b>Industries or Equivalent</b> |                              |
|                 | Manufacturer                     | To Offer  |                              |
|                 | Local Agent                      | To Offer  |                              |
|                 | Diameter (mm)                    | 100/150   |                              |
| <b>B</b>        | <b>HDPE Pipe</b>                 | Southern Pipe,<br>Maruichi, Pipe Fab<br><b>Industries or Equivalent</b> |                              |
|                 | Manufacturer                     | To Offer  |                              |
|                 | Size                             | To Offer  |                              |
|                 | Model / Type                     | To Offer  |                              |
| <b>C</b>        | <b>Service Box</b>               | Armanis, Gruppe,<br>Mestron or equivalent                               |                              |
|                 | Manufacturer                     | To Offer  |                              |
|                 | Local Agent                      | To Offer  |                              |
|                 | Model / Type                     | To Offer  |                              |
| <b>D</b>        | <b>Steel Tray / Trunking</b>     | U-Li, Metal<br>Perforators, Lanric, SJ<br>Trunk or equivalent           |                              |
|                 | Manufacturer                     | To Offer  |                              |
|                 | Local Agent                      | To Offer  |                              |
|                 | type of material                 | Galvanised  |                              |
|                 | Thickness of material (mm)       | 1.6/2.0   |                              |
|                 | Tray/trunking Finishes           | Coated Orange   |                              |
| <b>E</b>        | <b>Switch</b>                    |   |                              |
|                 | Manufacturer                     | To Offer  |                              |
|                 | Country of Manufacture           | To Offer  |                              |
|                 | Local Agent                      | To Offer  |                              |
|                 | Model No.                        | To Offer  |                              |
|                 | Standard/Technical Specification | BS 3676, IEC 60669-1  |                              |
| <b>F</b>        | <b>Switch Socket Outlet</b>      |   |                              |
|                 | Manufacturer                     | To Offer  |                              |
|                 | Country of Manufacture           | To Offer  |                              |
|                 | Local Agent                      | To Offer  |                              |
|                 | Model No.                        | To Offer  |                              |
|                 | Standard/Technical Specification | BS 546, IEC 60529   |                              |

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|---------------------|--|----------------------------------|----------------------------------|
| <b>5</b>            | <b>OTHERS (Cont'd)</b>   |                                  |                                  |
| <b>G</b>            | <b>Junction Box</b><br>Manufacturer<br>Local Agent<br>Model / Type | To Offer<br>To Offer<br>To Offer |                                  |

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