

**PRICE FORMAT FOR SUPPLY  
2X660 MW IB TPP BANHARPALI UNIT # 3 & 4 - STATION LIGHTING SYSTEM**

| ITEM NO. | DESCRIPTION - MAIN EQUIPMENT  | UNIT | TOTAL QUANTITY | INDIAN BIDDER             |                            |                                    |  | FOREIGN BIDDER   |                               |                           |                            |   |                   |   |  |
|----------|---|------|----------------|---------------------------|----------------------------|------------------------------------|--|--|-------------------------------|---------------------------|----------------------------|---|-------------------|---|--|
|          |   |      |                | UNIT EX-WORKS PRICE (INR) | TOTAL EX-WORKS PRICE (INR) | EXCISE DUTY with cess@.....% (INR) | CST@.....% against Form C/VAT@.....% (Whichever is applicable) (INR) | FREIGHT CHARGES (Including Service tax @ applicable rate)-to be quoted as % of Ex-Works@.....% (INR) | TOTAL F.O.R. SITE PRICE (INR) | UNIT FOB PRICE (Currency) | TOTAL FOB PRICE (Currency) | Marine Freight Insurance by BHEL (Currency) | Custom Duty (INR) | Inland Freight & Port Clearance etc (INR) | Total F.O.R. Site Price (INR + CURRENCY) |
| 1.0      | Lighting Distribution Board (LDB)   |      |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 1.1      | AC LDB Type LDB-H (12)  |      |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 1.1.1    | AC LDB Type LDB-H (12) without transformer (including cubicle suitable for 1 no. 100 kVA transformer)             | Nos. | 16             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 1.1.2    | 100kVA transformer for housing in 1.1.1   | Nos. | 16             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 1.2      | AC LDB Type LDB-F (8)   |      |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 1.2.1    | AC LDB Type LDB-F (8) without transformer (including cubicle suitable for 1 no. 50 kVA transformer)               | Nos. | 6              |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 1.2.2    | 50kVA transformer for housing in 1.2.1  | Nos. | 6              |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 1.3      | DCLDB Type LDB-D (6)  | Nos. | 4              |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 1.4      | AC WDB Type WDB-H (12)  |      |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 1.4.1    | AC WDB Type WDB-H (12) without transformer (including cubicle suitable for 1 no. 100 kVA transformer) for welding | Nos. | 4              |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 1.4.2    | 100kVA transformer for housing in 1.4.1   | Nos. | 4              |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 2.0      | Lighting Panels (LP)  |      |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 2.1      | AC Normal /Emergency indoor Type LP - A (6) [with timer]  | Nos. | 3              |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 2.2      | AC Normal /Emergency indoor Type LP - A (12) [with timer]   | Nos. | 55             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 2.3      | AC Normal /Emergency outdoor Type LP - A (12) [with timer]  | Nos. | 65             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 2.4      | AC Normal (Decorative) Type LP - A (12)   | Nos. | 12             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 2.5      | AC Normal /Emergency indoor Type LP - A (18) [with timer]   | Nos. | 10             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 2.6      | AC Normal /Emergency outdoor Type LP - A (18) [with timer]  | Nos. | 16             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 2.7      | DC indoor Type LP - D (6)   | Nos. | 21             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 2.8      | DC outdoor Type LP - D (6)  | Nos. | 10             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 3.0      | Lighting Luminaires (complete with accessories)   |      |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 3.1      | Luminaires Type FC02: (*) for 28W T5 tube   | Nos. | 60             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 3.2      | Luminaire Type FC06: (*) for 28W T5 tube  | Nos. | 1535           |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 3.3      | Luminaire Type FC26: (*) for 28W T5 tube  | Nos. | 405            |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 3.4      | Luminaire Type FC81: (*) for 28W T5 tube  | Nos. | 260            |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 3.5      | Luminaire Type FC32: (*) for 28W T5 tube  | Nos. | 20             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 3.6      | Luminaire Type FC07: (*)  | Nos. | 290            |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 3.7      | Luminaire Type FC33: (*)  | Nos. | 160            |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 3.8      | Luminaire Type FC34: (*)  | Nos. | 445            |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |
| 3.9      | Luminaire Type SF63: (*)  | Nos. | 40             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |

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**PRICE FORMAT FOR SUPPLY  
2X660 MW IB TPP BANHARPALI UNIT # 3 & 4 - STATION LIGHTING SYSTEM**

| ITEM NO. | DESCRIPTION - MAIN EQUIPMENT  | UNIT | TOTAL QUANTITY | INDIAN BIDDER             |                            |                                    |   |  |                               | FOREIGN BIDDER            |                            |   |                   |   |  |  |
|----------|---|------|----------------|---------------------------|----------------------------|------------------------------------|---|--|-------------------------------|---------------------------|----------------------------|---|-------------------|---|--|--|
|          |   |      |                | UNIT EX-WORKS PRICE (INR) | TOTAL EX-WORKS PRICE (INR) | EXCISE DUTY with cess@.....% (INR) | CST@.....% against Form C/VAT@.....% (Which ever is applicable) (INR) | FREIGHT CHARGES (including Service tax @ applicable rate) to be quoted as % of Ex-Works@.....% (INR) | TOTAL F.O.R. SITE PRICE (INR) | UNIT FOB PRICE (Currency) | TOTAL FOB PRICE (Currency) | Marine Freight Insurance by BHEL (Currency) | Custom Duty (INR) | Inland Freight & Port Clearance Charged etc (INR) | Total F.O.R. Site Price (INR + CURRENCY) |  |
| 3.10     | Luminaire Type SF66: (*)  | Nos. | 30             |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 3.11     | Luminaire Type SB11: (*)  | Nos. | 90             |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 3.12     | Luminaire Type SB02: (*)  | Nos. | 330            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 3.13     | Luminaire Type SB03: (*)  | Nos. | 165            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 3.14     | Luminaire Type SS61: (*)  | Nos. | 4              |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 3.15     | Luminaire Type SS62: (*)  | Nos. | 340            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 3.16     | Luminaire Type SS63: (*)  | Nos. | 2              |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 3.17     | Luminaire Type SW41: (*)  | Nos. | 6255           |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 3.18     | Luminaire Type SW42: (*)  | Nos. | 1780           |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 3.19     | Luminaire Type MW96: (*)  | Nos. | 185            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 3.20     | LUMINAIRE TYPE FC30: (*)  | Nos. | 605            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.0      | Lighting Lamp   |      |                |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.1      | 28W T5 fluorescent tube   | Nos. | 5440           |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.2      | 18W CFL LAMP  | Nos. | 900            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.3      | 70W HPSV lamp (SON-E)   | Nos. | 6075           |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.4      | 150W HPSV lamp (SON-E)  | Nos. | 1850           |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.5      | 70W HPSV lamp (SON-T)   | Nos. | 10             |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.6      | 150W HPSV lamp (SON-T)  | Nos. | 335            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.7      | 250W HPSV lamp (SON-E)  | Nos. | 365            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.8      | 250W HPSV lamp (SON-T)  | Nos. | 2              |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.9      | 400W HPSV lamp (SON-E)  | Nos. | 225            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.10     | 125W HPMV lamp  | Nos. | 184            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 4.11     | 13W T5 FL TUBE  | Nos. | 2424           |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 5.0      | Switch boxes for individual control of circuits<br>Switchboards consisting of switch boxes, switches, switch plates and fixing accessories. |      |                |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 5.1      | Type SWB1   | Nos. | 100            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 5.2      | Type SWB2   | Nos. | 20             |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 5.3      | Type SWB3   | Nos. | 5              |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 5.4      | Decorative Type SWB1  | Nos. | 10             |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 5.5      | Decorative Type SWB2  | Nos. | 10             |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 5.6      | Decorative Type SWB3  | Nos. | 25             |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 6.0      | Junction boxes  |      |                |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 6.1      | Type JB-F   | Nos. | 12190          |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 6.2      | Type JB-FE  | Nos. | 320            |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |
| 6.3      | Type JB-S   | Nos. | 2              |                           |                            |                                    |   |  |                               |                           |                            |   |                   |   |  |  |

101

**PRICE FORMAT FOR SUPPLY  
2X660 MW IB TPP BANHARPALI UNIT # 3 & 4 - STATION LIGHTING SYSTEM**

| ITEM NO. | DESCRIPTION - MAIN EQUIPMENT  | UNIT   | TOTAL QUANTITY | INDIAN BIDDER             |                            |                                    |  |  |                               | FOREIGN BIDDER            |                            |   |                   |   |  |  |  |
|----------|---|--------|----------------|---------------------------|----------------------------|------------------------------------|--|--|-------------------------------|---------------------------|----------------------------|---|-------------------|---|--|--|--|
|          |   |        |                | UNIT EX-WORKS PRICE (INR) | TOTAL EX-WORKS PRICE (INR) | EXCISE DUTY with case@.....% (INR) | CST@.....% against Form C/VAT@.....% (Whichever is applicable) (INR) | FREIGHT CHARGES (Including Service tax @ applicable rate)-to be quoted as % of Ex-Works@.....% (INR) | TOTAL F.O.R. SITE PRICE (INR) | UNIT FOB PRICE (Currency) | TOTAL FOB PRICE (Currency) | Marine Freight Insurance by BHEL (Currency) | Custom Duty (INR) | Inland Freight & Port Clearance Charged etc (INR) | Total F.O.R. Site Price (INR + CURRENCY) |  |  |
| 7.0      | Receptacles   |        |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 7.1      | Type RA   | Nos.   | 460            |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 7.2      | Type RA (Flame proof)   | Nos.   | 15             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 7.3      | Type RB   | Nos.   | 140            |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 7.4      | Type RC   | Nos.   | 100            |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 7.5      | Type RD   | Nos.   | 4              |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 8.0      | Ceiling fans with electronic regulators   |        |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 8.1      | 1400 mm sweep   | Nos.   | 15             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 9.0      | Emergency lighting Units  |        |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
|          | With Ni-Cd battery and 2 X 10W fluorescent lamp                                   | Nos.   | 3              |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 10.0     | Poles [Swaged, Steel tubular poles Galvanised]                                    |        |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 10.1     | Type PF2 (410 SP51 as per IS-2713)  | Nos.   | 6              |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 11.0     | Wires   |        |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 11.1     | 1x2.5 mm <sup>2</sup> mm <sup>2</sup> Cu PVC [Red/Yellow/Blue/Black/Grey](METRES) | Metres | 577800         |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 11.2     | 1x4 mm <sup>2</sup> Cu PVC [Red/Yellow/Blue/Black/Grey](M)                        | Metres | 60640          |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 12.0     | GI wire, flat & MS rod  |        |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 12.1     | 16 SWG GI wire(M)   | Metres | 341965         |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 12.2     | 35X6 mm GI flat   | Metres | 1500           |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 12.3     | 50X6 mm GS flat   | Metres | 1000           |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 12.4     | 40mm dia MS rod   | Metres | 60             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 13.0     | Hot dip Galvanised Rigid Steel Conduits (Heavy Duty)                              |        |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 13.1     | 20 mm dia GI conduit, 1.6 mm thick  | Metres | 199060         |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 13.2     | 25 mm dia GI conduit, 1.6 mm thick  | Metres | 18010          |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 13.3     | 40 mm dia GI conduit, 2 mm thick  | Metres | 11870          |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 13.4     | 50 mm dia GI conduit, 2 mm thick  | Metres | 1300           |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 13.5     | 25 mm dia GI conduit with epoxy coating, 1.6 mm thick                             | Metres | 4380           |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 14.0     | Flexible Lead coated conduit  |        |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 14.1     | 20 mm dia electro galvanised conduit, 1.6mm thick                                 | Metres | 15607          |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 15.0     | 24V supply module & lamp unit complete with all accessories                       |        |                |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 15.1     | Fix type 24V supply modules   | Nos.   | 34             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 15.2     | Portable type 24V supply modules  | Nos.   | 15             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 15.3     | Portable halogen lamp unit  | Nos.   | 20             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 15.4     | 5A, 24V industrial type sockets   | Nos.   | 128            |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 16.0     | Structural steel  | MT     | 45             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |
| 17.0     | Emergency Exit lamps  | Nos.   | 20             |                           |                            |                                    |  |  |                               |                           |                            |   |                   |   |  |  |  |

H 22

**PRICE FORMAT FOR SUPPLY  
2X660 MW IB TPP BANHARPALI UNIT # 3 & 4 - STATION LIGHTING SYSTEM**

| ITEM NO. | DESCRIPTION - MAIN EQUIPMENT   | UNIT | TOTAL QUANTITY | INDIAN BIDDER             |                            |                                    |   | FOREIGN BIDDER  |                               |                           |                            |   |                   |                                     |  |
|----------|--------------------------------|------|----------------|---------------------------|----------------------------|------------------------------------|---|---|-------------------------------|---------------------------|----------------------------|---|-------------------|-------------------------------------|--|
|          |                                |      |                | UNIT EX-WORKS PRICE (INR) | TOTAL EX-WORKS PRICE (INR) | EXCISE DUTY with case@.....% (INR) | CST@.....% against Form C/VAT@.....% (Which ever is applicable) (INR) | FREIGHT CHARGES (Including Services tax @ applicable rate) to be quoted as % of Ex-Works@.....% (INR) | TOTAL F.O.R. SITE PRICE (INR) | UNIT FOB PRICE (Currency) | TOTAL FOB PRICE (Currency) | Marine Freight Insurance by BHEL (Currency) | Custom Duty (INR) | Inland Freight & Port Charges (INR) | Total F.O.R. Site Price (INR + CURRENCY) |
| 18.0     | 240V Halogen fixture with lamp | Nos. | 6              |                           |                            |                                    |   |   |                               |                           |                            |   |                   |                                     |  |
| 19.0     | Pedestal fan                   | Nos. | 20             |                           |                            |                                    |   |   |                               |                           |                            |   |                   |                                     |  |

**NOTES:**

- All Fluorescent fixtures shall have energy efficient lamp (T5) and electronic ballast.
- The unit rates of supply for all supply and installation quoted by the bidder shall be firm for a variation of quantities limited to:
  - ±30% of total order value corresponding to BOQ of Main equipment supply as above till finalization of engineering details & BOQ.
  - +10% of the total order value corresponding to BOQ of Main equipment supply as above in addition to (a) above, till the completion of job.
- 'Basic Design Documents' cover: Drawings/ documents schedule, technical data sheets, GA dwgs. of equipments, quality plan, type test reports for Station Lighting System.
- Erection & commissioning materials (such as double compression cable glands, conduit fittings viz. couplers, elbows, bends, tees, circular boxes etc., conduit accessories viz. clips, saddles, spacing plates, entry bushes, lock nuts, plugs, heavy duty lugs, ferrules, expansion fasteners, ball & sockets, earth clips, fan boxes, clamps, screws etc. form part of erection activities) and accessories including commissioning & operational spares upto system handing over to OPGCL has to be worked out for complete and successful erection & commissioning of the total supply as per BOQ. The price to be quoted for E & C accordingly for equipment and fittings.
- Design engineering charges are considered to be included in main equipment supply price. No separate charges shall be applicable.
- Fabrication & painting charges of structural steel shall be part of erection charges of those equipment for which the same is being used.
- Installation of lamp shall be part of E&C of respective fixture. The E&C price of fixtures to be quoted accordingly.
- All measuring and testing instruments required during erection, testing, commissioning and performance testing shall be arranged by the bidder and taken back.

  
 Bidders Signature with stamp

**PRICE FORMAT FOR ERECTION AND COMMISSIONING (E&C)  
2X660 MW IB TPP BANHARPALI UNIT # 3 & 4 - STATION LIGHTING SYSTEM**

| ITEM NO. | DESCRIPTION - MAIN EQUIPMENT  | UNIT | TOTAL QUANTITY | INDIAN AND FOREIGN BIDDER |                 |                                |
|----------|---|------|----------------|---------------------------|-----------------|--------------------------------|
|          |   |      |                | UNIT E&C (INR)            | TOTAL E&C (INR) | SERVICE TAX ON E&C @...% (INR) |
| 1.0      | Lighting Distribution Board (LDB)   |      |                |                           |                 |                                |
| 1.1      | AC LDB Type LDB-H (12)  |      |                |                           |                 |                                |
| 1.1.1    | AC LDB Type LDB-H (12) without transformer (including cubicle suitable for 1 no. 100 kVA transformer)                     | Nos. | 16             |                           |                 |                                |
| 1.1.2    | 100KVA transformer for housing in 1.1.1   | Nos. | 16             |                           |                 |                                |
| 1.2      | AC LDB Type LDB-F (8)   |      |                |                           |                 |                                |
| 1.2.1    | AC LDB Type LDB-F (8) without transformer (including cubicle suitable for 1 no. 50 kVA transformer)                       | Nos. | 6              |                           |                 |                                |
| 1.2.2    | 50KVA transformer for housing in 1.2.1  | Nos. | 6              |                           |                 |                                |
| 1.3      | DCLDB Type LDB-D (6)  | Nos. | 4              |                           |                 |                                |
| 1.4      | AC WDB Type WDB-H (12)  |      |                |                           |                 |                                |
| 1.4.1    | AC WDB Type WDB-H (12) without transformer (including cubicle suitable for 1 no. 100 kVA transformer) for welding sockets | Nos. | 4              |                           |                 |                                |
| 1.4.2    | 100KVA transformer for housing in 1.4.1   | Nos. | 4              |                           |                 |                                |
| 2.0      | Lighting Panels (LP)  |      |                |                           |                 |                                |
| 2.1      | AC Normal /Emergency indoor Type LP - A (6) [with timer]  | Nos. | 3              |                           |                 |                                |
| 2.2      | AC Normal /Emergency indoor Type LP - A (12) [with timer]   | Nos. | 55             |                           |                 |                                |
| 2.3      | AC Normal /Emergency outdoor Type LP - A (12) [with timer]  | Nos. | 65             |                           |                 |                                |
| 2.4      | AC Normal (Decorative) Type LP - A (12)   | Nos. | 12             |                           |                 |                                |
| 2.5      | AC Normal /Emergency indoor Type LP - A (18) [with timer]   | Nos. | 10             |                           |                 |                                |
| 2.6      | AC Normal /Emergency outdoor Type LP - A (18) [with timer]  | Nos. | 16             |                           |                 |                                |
| 2.7      | DC indoor Type LP - D (6)   | Nos. | 21             |                           |                 |                                |
| 2.8      | DC outdoor Type LP - D (6)  | Nos. | 10             |                           |                 |                                |
| 3.0      | Lighting Luminaires (complete with accessories)   |      |                |                           |                 |                                |
| 3.1      | Luminaires Type FC02: (*) for 28W T5 tube   | Nos. | 60             |                           |                 |                                |
| 3.2      | Luminaire Type FC06: (*) for 28W T5 tube  | Nos. | 1535           |                           |                 |                                |
| 3.3      | Luminaire Type FC26: (*) for 28W T5 tube  | Nos. | 405            |                           |                 |                                |
| 3.4      | Luminaire Type FC81: (*) for 28W T5 tube  | Nos. | 260            |                           |                 |                                |
| 3.5      | Luminaire Type FC32: (*) for 28W T5 tube  | Nos. | 20             |                           |                 |                                |
| 3.6      | Luminaire Type FC07: (*)  | Nos. | 290            |                           |                 |                                |
| 3.7      | Luminaire Type FC33: (*)  | Nos. | 160            |                           |                 |                                |
| 3.8      | Luminaire Type FC34: (*)  | Nos. | 445            |                           |                 |                                |
| 3.9      | Luminaire Type SF63: (*)  | Nos. | 40             |                           |                 |                                |
| 3.10     | Luminaire Type SF66: (*)  | Nos. | 30             |                           |                 |                                |
| 3.11     | Luminaire Type SB11: (*)  | Nos. | 90             |                           |                 |                                |
| 3.12     | Luminaire Type SB02: (*)  | Nos. | 330            |                           |                 |                                |
| 3.13     | Luminaire Type SB03: (*)  | Nos. | 165            |                           |                 |                                |
| 3.14     | Luminaire Type SS61: (*)  | Nos. | 4              |                           |                 |                                |

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**PRICE FORMAT FOR ERECTION AND COMMISSIONING (E&C)  
2X660 MW IB TPP BANHARPALI UNIT # 3 & 4 - STATION LIGHTING SYSTEM**

| ITEM NO. | DESCRIPTION - MAIN EQUIPMENT   | UNIT | TOTAL QUANTITY | INDIAN AND FOREIGN BIDDER |                 |                               |
|----------|--|------|----------------|---------------------------|-----------------|-------------------------------|
|          |  |      |                | UNIT E&C (INR)            | TOTAL E&C (INR) | SERVICE TAX ON E&C@...% (INR) |
| 3.15     | Luminaire Type SS62: (*)   | Nos. | 340            |                           |                 |                               |
| 3.16     | Luminaire Type SS63: (*)   | Nos. | 2              |                           |                 |                               |
| 3.17     | Luminaire Type SW41: (*)   | Nos. | 6255           |                           |                 |                               |
| 3.18     | Luminaire Type SW42: (*)   | Nos. | 1780           |                           |                 |                               |
| 3.19     | Luminaire Type MW96: (*)   | Nos. | 185            |                           |                 |                               |
| 3.20     | LUMINAIRE TYPE FC30: (*)   | Nos. | 605            |                           |                 |                               |
| 4.0      | Lighting Lamp  |      |                |                           |                 |                               |
| 4.1      | 28W T5 fluorescent tube  | Nos. | 5440           |                           |                 |                               |
| 4.2      | 18W CFL LAMP   | Nos. | 900            |                           |                 |                               |
| 4.3      | 70W HPSV lamp (SON-E)  | Nos. | 6075           |                           |                 |                               |
| 4.4      | 150W HPSV lamp (SON-E)   | Nos. | 1850           |                           |                 |                               |
| 4.5      | 70W HPSV lamp (SON-T)  | Nos. | 10             |                           |                 |                               |
| 4.6      | 150W HPSV lamp (SON-T)   | Nos. | 335            |                           |                 |                               |
| 4.7      | 250W HPSV lamp (SON-E)   | Nos. | 365            |                           |                 |                               |
| 4.8      | 250W HPSV lamp (SON-T)   | Nos. | 2              |                           |                 |                               |
| 4.9      | 400W HPSV lamp (SON-E)   | Nos. | 225            |                           |                 |                               |
| 4.10     | 125W HPMV lamp   | Nos. | 184            |                           |                 |                               |
| 4.11     | 13W T5 FL TUBE   | Nos. | 2424           |                           |                 |                               |
| 5.0      | Switch boxes for individual control of circuits  |      |                |                           |                 |                               |
|          | Switchboards consisting of switch boxes, switches, switch plates and fixing accessories. |      |                |                           |                 |                               |
| 5.1      | Type SWB1  | Nos. | 100            |                           |                 |                               |
| 5.2      | Type SWB2  | Nos. | 20             |                           |                 |                               |
| 5.3      | Type SWB3  | Nos. | 5              |                           |                 |                               |
| 5.4      | Decorative Type SWB1   | Nos. | 10             |                           |                 |                               |
| 5.5      | Decorative Type SWB2   | Nos. | 10             |                           |                 |                               |
| 5.6      | Decorative Type SWB3   | Nos. | 25             |                           |                 |                               |
| 6.0      | Junction boxes   |      |                |                           |                 |                               |
| 6.1      | Type JB-F  | Nos. | 12190          |                           |                 |                               |
| 6.2      | Type JB-FE   | Nos. | 320            |                           |                 |                               |
| 6.3      | Type JB-S  | Nos. | 2              |                           |                 |                               |
| 7.0      | Receptacles  |      |                |                           |                 |                               |
| 7.1      | Type RA  | Nos. | 460            |                           |                 |                               |
| 7.2      | Type RA (Flame proof)  | Nos. | 15             |                           |                 |                               |
| 7.3      | Type RB  | Nos. | 140            |                           |                 |                               |
| 7.4      | Type RC  | Nos. | 100            |                           |                 |                               |

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**PRICE FORMAT FOR ERECTION AND COMMISSIONING (E&C)  
2X660 MW IB TPP BANHARPALI UNIT # 3 & 4 - STATION LIGHTING SYSTEM**

| ITEM NO. | DESCRIPTION - MAIN EQUIPMENT                                      | UNIT   | TOTAL QUANTITY | INDIAN AND FOREIGN BIDDER |                 |                               |
|----------|---|--------|----------------|---------------------------|-----------------|-------------------------------|
|          |   |        |                | UNIT E&C (INR)            | TOTAL E&C (INR) | SERVICE TAX ON E&C@...% (INR) |
| 7.5      | Type RD   | Nos.   | 4              |                           |                 |                               |
| 8.0      | Ceiling fans with electronic regulators                           |        |                |                           |                 |                               |
| 8.1      | 1400 mm sweep   | Nos.   | 15             |                           |                 |                               |
| 9.0      | Emergency lighting Units  |        |                |                           |                 |                               |
|          | With Ni-Cd battery and 2 X 10W fluorescent lamp                   | Nos.   | 3              |                           |                 |                               |
| 10.0     | Poles [Swaged, Steel tubular poles Galvanised]                    |        |                |                           |                 |                               |
| 10.1     | Type PF2 (410 SP51 as per IS-2713)                                | Nos.   | 6              |                           |                 |                               |
| 11.0     | Wires   |        |                |                           |                 |                               |
| 11.1     | 1x2.5 mm <sup>2</sup> Cu PVC [Red/Yellow/Blue/Black/Grey](METRES) | Metres | 577800         |                           |                 |                               |
| 11.2     | 1x4 mm <sup>2</sup> Cu PVC [Red/Yellow/Blue/Black/Grey](M)        | Metres | 60640          |                           |                 |                               |
| 12.0     | GI wire, flat & MS rod  |        |                |                           |                 |                               |
| 12.1     | 16 SWG GI wire(M)   | Metres | 341965         |                           |                 |                               |
| 12.2     | 35X6 mm GI flat   | Metres | 1500           |                           |                 |                               |
| 12.3     | 50X6 mm GS flat   | Metres | 1000           |                           |                 |                               |
| 12.4     | 40mm dia MS rod   | Metres | 60             |                           |                 |                               |
| 13.0     | Hot dip Galvanised Rigid Steel Conduits (Heavy Duty)              |        |                |                           |                 |                               |
| 13.1     | 20 mm dia GI conduit, 1.6 mm thick                                | Metres | 198060         |                           |                 |                               |
| 13.2     | 25 mm dia GI conduit, 1.6 mm thick                                | Metres | 18010          |                           |                 |                               |
| 13.3     | 40 mm dia GI conduit, 2 mm thick                                  | Metres | 11870          |                           |                 |                               |
| 13.4     | 50 mm dia GI conduit, 2 mm thick                                  | Metres | 1300           |                           |                 |                               |
| 13.5     | 25 mm dia GI conduit with epoxy coating, 1.6 mm thick             | Metres | 4380           |                           |                 |                               |
| 14.0     | Flexible Lead coated conduit                                      |        |                |                           |                 |                               |
| 14.1     | 20 mm dia electro galvanised conduit, 1.6mm thick                 | Metres | 15607          |                           |                 |                               |
| 15.0     | 24V supply module & lamp unit complete with all accessories       |        |                |                           |                 |                               |
| 15.1     | Fix type 24V supply modules                                       | Nos.   | 34             |                           |                 |                               |
| 15.2     | Portable type 24V supply modules                                  | Nos.   | 15             |                           |                 |                               |
| 15.3     | Portable halogen lamp unit  | Nos.   | 20             |                           |                 |                               |
| 15.4     | 5A, 24V industrial type sockets                                   | Nos.   | 128            |                           |                 |                               |
| 16.0     | Structural steel  | MT     | 45             |                           |                 |                               |
| 17.0     | Emergency Exit lamps  | Nos.   | 20             |                           |                 |                               |

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**PRICE FORMAT FOR ERECTION AND COMMISSIONING (E&C)  
2X660 MW IB TPP BANHARPALI UNIT # 3 & 4 - STATION LIGHTING SYSTEM**

| ITEM NO. | DESCRIPTION - MAIN EQUIPMENT   | UNIT | TOTAL QUANTITY | INDIAN AND FOREIGN BIDDER |                 |                                   |   |
|----------|--------------------------------|------|----------------|---------------------------|-----------------|-----------------------------------|---|
|          |                                |      |                | UNIT E&C (INR)            | TOTAL E&C (INR) | SERVICE TAX ON E&C @ .....% (INR) | TOTAL E&C CHARGES INCLUDING SERVICE TAX (INR) |
| 18.0     | 240V Halogen fixture with lamp | Nos. | 6              |                           |                 |                                   |   |
| 19.0     | Pedestal fan                   | Nos. | 20             |                           |                 |                                   |   |

**NOTES:**

- The unit rates of supply for all supply and installation quoted by the bidder shall be firm for a variation of quantities limited to:
  - ±30% of total order value corresponding to BOQ of Main equipment installation as above till finalization of engineering details & BOQ.
  - ±10% of the total order value corresponding to BOQ of Main equipment installation as above in addition to (a) above, till the completion of job.
- Erection & commissioning materials (such as double compression cable glands, conduit fittings viz. couplers, elbows, bends, tees, circular boxes etc., conduit accessories viz. clips, saddles, spacing plates, entry bushes, lock nuts, plugs, heavy duty lugs, ferrules, expansion fasteners, ball & sockets, earth clips, fan boxes, clamps, screws etc. form part of erection activities) and accessories including commissioning & operational spares upto system handing over to OPGCL has to be worked out for complete and successful erection & commissioning of the total supply as per BOQ. The price to be quoted for E & C accordingly for equipment and fittings.
- Fabrication & painting charges of structural steel shall be part of erection charges of those equipment for which the same is being used.
- Installation of lamp shall be part of E&C of respective fixture. The E&C price of fixtures to be quoted accordingly.
- All measuring and testing instruments required during erection, testing, commissioning and performance testing shall be arranged by the bidder and taken back.

  
 Bidders Signature with stamp

**PRICE FORMAT FOR MANDATORY SPARES**  
**2X660 MW IB TPP BANHARPALI UNIT # 3 & 4 - STATION LIGHTING SYSTEM**

| SL. NO. | ITEM  | QTY      | INDIAN BIDDER                    |                                   |   |  | FOREIGN BIDDER   |                                     |                                 |                                  |   |                         |  |   |
|---------|---|----------|----------------------------------|-----------------------------------|---|--|--|-------------------------------------|---------------------------------|----------------------------------|---|-------------------------|--|---|
|         |   |          | UNIT EX-<br>WORKS PRICE<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>(INR) | EXCISE DUTY<br>with<br>cess@.....%<br>(INR) | CST@.....%<br>against Form<br>C/VAT@.....%<br>(Which ever<br>is applicable)<br>(INR) | FREIGHT<br>CHARGES<br>(Including<br>Service tax @<br>applicable rate)-<br>to be quoted as<br>% of Ex-<br>Works@.....%<br>(INR) | TOTAL F.O.R.<br>SITE PRICE<br>(INR) | UNIT FOB<br>PRICE<br>(Currency) | TOTAL<br>FOB PRICE<br>(Currency) | Marine<br>Freight<br>(Marine<br>Insurance<br>by BHEL)<br>(Currency) | Custom<br>Duty<br>(INR) | Inland<br>Freight &<br>Port<br>Clearance<br>(Charged etc)<br>(INR) | Total F.O.R.<br>Site Price<br>(INR +<br>CURRENCY<br>) |
| 1       | Complalux Lamp 100 W  | 20 nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 2       | High Pressure Mercury Vapour Lamp 155W                        | 40 nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 3       | High Pressure Sodium Vapour Lamp 70W                          | 200 nos. |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 4       | High Pressure Sodium Vapour Lamp 250W                         | 40 nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 5       | High Pressure Sodium Vapour Lamp 400W                         | 20 nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 6       | High Pressure Mercury Vapour Lamp 400W                        | 40 nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 7       | Ignitors (Separate type) for High Pressure Sodium Vapour Lamp | 300nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 8       | Ballast for 1 x 125 W High Pressure Mercury Vapour Lamp       | 30 nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 9       | Ballast for 1 x 400 W High Pressure Mercury Vapour Lamp       | 30 nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 10      | Ballast for 1 x 70 W High Pressure Sodium Vapour Lamp         | 300 nos. |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 11      | Ballast for 1 x 250 W High Pressure Sodium Vapour Lamp        | 50 nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 12      | Ballast for 1 x 400 W High Pressure Sodium Vapour Lamp        | 50 nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 13      | Capacitor for 1 x 125 W High Pressure Mercury Vapour Lamp     | 100 Nos. |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 14      | Capacitor for 1 x 400 W High Pressure Mercury Vapour Lamp     | 100 Nos. |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 15      | Capacitor for 1 x 70 W High Pressure Sodium Vapour Lamp       | 100 Nos. |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 16      | Capacitor for 1 x 250 W High Pressure Sodium Vapour Lamp      | 100 Nos. |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 17      | Capacitor for 1 x 400 W High Pressure Sodium Vapour Lamp      | 100 Nos. |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 18      | Clockswitch type Time Switch                                  | 50 Nos.  |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 19      | Miniature Circuit Breakers (M.C. Bs)                          |          |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 19.1    | 1-Pole 20 Amps.   | 40Nos.   |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 19.2    | 2-Pole 20 Amps.   | 20Nos.   |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |
| 19.3    | 2-Pole 16 Amps.   | 20Nos.   |                                  |                                   |   |  |  |                                     |                                 |                                  |   |                         |  |   |

Note: The prices quoted for the mandatory spares as above will be considered for bid evaluation purpose.

Bidders Signature with stamp

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