

**2X500 MW NTPC MAUDA STAGE-I FGD  
3X660 MW NPGCPL NABINAGAR STPP FGD  
2X250 MW NSPCL BHILAI TPP FGD  
3X200MW + 3X500MW NTPC RAMAGUNDAM FGD  
3X200MW + 3X500MW + 1X500MW NTPC KORBA FGD  
3X660 MW NORTH KARANPURA FGD  
4X250 MW BRBCL NABINAGAR FGD**

**VOLUME – II**

**TECHNICAL SPECIFICATION FOR  
OCTAGONAL GALVANIZED POLES**

**SPECIFICATION NO: PE-TS-444-558-E004  
REV-0**



**BHARAT HEAVY ELECTRICALS LIMITED  
POWER SECTOR  
PROJECT ENGINEERING MANAGEMENT  
NOIDA, UTTAR PRADESH, INDIA – 201301**

893810/2022/PS-PEM-EL



# **TECHNICAL SPECIFICATION FOR OCTAGONAL GALVANIZED POLES**

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### COMPLIANCE CERTIFICATE

The bidder shall confirm compliance to the following by signing/ stamping this compliance certificate and furnishing same with the offer.

1. The scope of supply, technical details, construction features, design parameters etc. shall be as per technical specification & there are no exclusion/ deviation with regard to same
2. There are no deviations with respect to specification other than those furnished in the 'schedule of deviations'
3. Only those technical submittals which are specifically asked for in NIT to be submitted at tender stage shall be considered as part of offer. Any other submission, even if made, shall not be considered as part of offer.
4. Any comments/ clarifications on technical/ inspection requirements furnished as part of bidder's covering letter shall not be considered by BHEL, and bidder's offer shall be construed to be in conformance with the specification.
5. Any changes made by the bidder in the price schedule with respect to the description/ quantities from those given in BOQ-Cum-Price schedule of the specification shall not be considered (i.e., technical description & quantities as per specification shall prevail).
6. The requirements mentioned in Section-I shall prevail and govern in case of conflict between the same and the corresponding requirements mentioned in the descriptive portion in Section-II

-----  
BIDDER'S STAMP & SIGNATURE

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**SECTION – 'I'****SPECIFIC TECHNICAL REQUIREMENTS**



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### 1.0 SCOPE OF ENQUIRY

- 1.1 Design, manufacture, assembly, inspection & testing at manufacturer's works, proper packing and delivery to site of OCTAGONAL GALVANIZED POLES as mentioned in different sections of this specification, complete with all accessories for efficient and trouble-free operation.
- 1.2 Standard technical requirements of the LIGHTING POLES are indicated in Section-II. Project specific requirements/changes are listed in Section-I.
- 1.3 The requirements of Section-I shall prevail and govern in case of conflict between the corresponding requirements of Section-I and Section-II.
- 1.4 Review of sub vendor's documents by the vendor shall not relieve the vendor from the responsibility of design and supply.
- 1.5 The documents shall be in English language and MKS system of units. Submission of all post award stage documents shall be done through document management system-DMS.

### 2.0 BILL OF QUANTITIES:

- 2.1 Quantity requirements shall be as per BOQ-cum-price schedule as part of NIT.

### 3.0 SPECIFIC TECHNICAL REQUIREMENTS

| <u>S.No.</u> | <u>Reference Clause No. of Section- II</u> | <u>Specific Requirement/ Change</u>                                                                                                                                                       |
|--------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1            | 3.2.4 (JB-M)                               | 4 X 16 mm <sup>2</sup> cable shall be read as 3.5 X 25 mm <sup>2</sup> cable.                                                                                                             |
| 2            | 3.1.1                                      | Clause 3.1.1 shall be read as:<br>Lighting poles as required for street lighting and flood lighting shall be of Octagonal type as per applicable standard.                                |
| 3            | 3.2.2 (e)                                  | Clause 3.2.2 (e) shall be read as:<br>Junction box shall be integral to pole. Junction Box shall be suitable for mounting inside Octagonal pole.                                          |
| 4            | 3.1.5                                      | Clause 3.1.5 shall be read as:<br>Each street lighting pole shall be suitably provided with internal junction box.<br>6A MCB & neutral link shall be supplied with junction box.          |
| 5            | 3.1.6                                      | Clause 3.1.6 shall be read as:<br>Not applicable                                                                                                                                          |
| 6            | 3.1.7                                      | Clause 3.1.7 shall be read as:<br>Flood lighting pole shall be provided with galvanised MS plate and shall be suitable for the number of flood lighting luminaires and controlgear boxes. |
| 7            | 3.5                                        | Clause 3.5 Not applicable                                                                                                                                                                 |
| 8            | 3.6.1                                      | Clause 3.6.1 Not applicable                                                                                                                                                               |
| 9            | 8.2                                        | Clause 8.2 shall be read as:<br>Erection & commissioning spares are included in the bidder's scope of supply.                                                                             |



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|    |                       |                                                                                                                                                                                                                                               |
|----|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                       | These include foundation bolts for 2 nos. poles.                                                                                                                                                                                              |
| 10 | 6.1                   | Clause 6.1 shall be read as:<br>The approval on Quality plan (ref.no. 9573-215-QVT-Q-013, REV.0) shall be obtained from end customer after award of contract & shall be subjected to modification without any commercial implication to BHEL. |
| 11 | 7.0 (TOOLS & TACKLES) | Following clause is added:<br>Bidder to supply necessary accessories required for installation of its supplied equipment's without any cost implication to BHEL.                                                                              |
| 12 | Sub-vendor list       | Following clause is added:<br>The approval on Sub-vendor list shall be obtained from end customer after award of contract & same shall be subjected to modification without any commercial implication to BHEL.                               |

## **4.0 Supplier to also give the following undertaking in the BOM:**

**"The BoM provided herewith completes the scope (in content and intent) of material supply under PO No. -----, dated -----.**

**Any additional material which may become necessary for the intended application of the supplied item(s)/package will be supplied free of cost in most reasonable time."**

## **5.0 Bidder shall furnish all inputs for foundation design to BHEL during detailed engineering.**



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### 3.1 Galvanized Octagonal poles- technical requirements

- 3.1.1 **Scope:** The octagonal pole shall be mounted on RCC pedestal as per design & drawing prepared by the vendor, after award of contract. Octagonal lighting pole accessories such as arm/ holding brackets, hold fast, base plate, foundation bolt, **wire (if required)**, 50 mm dia HDPE pipes for taking cables shall be supplied by vendor to meet overall system requirements. The other consumable required to complete the job in all respects shall also be in contractor's scope.
- 3.1.2 **Exclusion:** The scope of civil work such as embedment, RCC pedestal using M-25 grade concrete, for steel shuttering etc. are excluded from the scope of bidder.
- 3.1.3 The Octagonal Poles shall be designed to withstand the maximum wind speed as per **IS-875 latest revision & amendments**. The top loading i.e. area and the weight of fixtures are to be considered to calculate maximum deflection of the pole and the same shall meet the requirement of BS: 5649 Part VI 1982/ BSEN 40-3:2000, pr EN-10-3-3.
- 3.1.4 The pole shaft shall have octagonal cross section and shall be continuously tapered with single longitudinal welding. There shall not be any circumferential welding joint.
- 3.1.5 The octagonal Poles shall have door of approximate 500 mm length at the elevation of 500 mm from the Base plate. The door shall be vandal resistance and shall be weather proof to ensure safety of inside connections. The door shall be flush with the exterior surface and shall have suitable locking arrangement. There shall also be suitable arrangement for the purpose of earthing **at two points**. The pole shall be adequately strengthened at the location of the door to compensate for the loss in section. Lighting pole junction box shall be provided along with octagonal pole as per requirement.
- 3.1.6 Material:
- |                 |                                       |
|-----------------|---------------------------------------|
| Octagonal Poles | HT Steel Conforming to grade S355JO.  |
| Base Plate      | Fe 410 conforming to IS 226 / IS 2062 |
| Foundation Bolt | EN.8 grade                            |
- 3.1.7 The Octagonal Poles shall be in single section (upto 9 Mtr).
- 3.1.8 The poles shall be hot dip galvanized as per IS 2629 / IS 2633 / IS 4759/ BS EN ISO 1461 standards with average coating thickness of 70 micron. The galvanizing shall be done in single dipping.
- 3.1.9 The Octagonal Poles shall be bolted on a foundation with a set of four foundation bolts for greater rigidity.
- 3.1.10 The galvanized mounting bracket shall be supplied along with the Octagonal Poles for installation of the luminaries.
- 3.1.11 The brackets shall be made of specified size NB G.I heavy duty pipe approx. 1.2 M long, bent at the centre at an angle of 105 degrees, with necessary holding brackets, hold fasts etc. with special reducer at end to accommodate type of street light fitting to be fixed. The bracket shall be galvanised.
- 3.1.12 QP enclosed with the specification shall be subject to customer approval without any commercial implication to BHEL



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3.1.13 Section –II, General requirements shall also be applicable to Octagonal galvanized poles in general.

### 4.0 DOCUMENTATION

4.1 Documents required after award of LOI shall be as per NIT.

4.2 Document/drawing submission/re-submission schedule shall be submitted by vendor as per NIT.





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## 1.0 APPLICABLE STANDARDS &amp; CODES

**[A] POLES**

- |     |                                                                                       |                        |
|-----|---------------------------------------------------------------------------------------|------------------------|
| 1.  | Tubular steel poles for over head power lines                                         | IS 2713                |
| 2.  | Code and practice for design loads for structures                                     | IS 875 Part III, 1987  |
| 3.  | Code of practice for general construction in steel                                    | IS 800                 |
| 4.  | European structural steel standard (Grade of M.S. plate)                              | BS-EN 10025/ DIN 17100 |
| 5.  | Code of practice for phosphating of iron and steel                                    | IS 6005                |
| 6.  | Colour for ready mixed paints & enamels                                               | IS 5                   |
| 7.  | Recommended practice for hot dip galvanising of iron & steel                          | IS 2629                |
| 8.  | Method of testing uniformity of coating on zinc coated articles                       | IS 2603                |
| 8.  | Method of sampling for steel pipes, tubes & fittings                                  | IS 4711                |
| 10. | Method of chemical analysis of pig iron, cast iron and plain carbon & low alloy steel | IS 228                 |
| 11. | Steel tubes for structural purposes                                                   | IS 1161                |
| 12. | Mechanical testing of metals-Tensile Testing                                          | IS 1608                |
| 13. | Specification for hot dip zinc coatings on structural steel and allied products       | IS 4759                |
| 14. | Method for testing uniformity of coating on zinc coated articles                      | IS 2633                |
| 15. | Specification for structural Steel                                                    | IS: 226                |
| 16. | Hot Rolled Medium and High Tensile. Structural Steel                                  | IS 2062                |
| 17. | Method for Verification of Structural Design by Testing                               | BS 5649                |



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18. Lighting columns. Design and verification. BS EN 40-3-2:2013

**[B] ASSEMBLED EQUIPMENT AND COMPONENTS**

- |    |                                                                                                              |           |
|----|--------------------------------------------------------------------------------------------------------------|-----------|
| 1. | Low voltage switchgear and controlgear                                                                       | IEC 60947 |
| 2. | General requirements for enclosures for accessories for household and similar fixed electrical installations | IS 14772  |
| 3. | Electrical accessories- Circuit breaker for overcurrent protection for household and similar installations   | IEC 60898 |
| 4. | Low voltage Fuses for voltages not exceeding 1100V AC or 1500V DC                                            | IS 13703  |
| 5. | Visual indicator lamps                                                                                       | IS 1901   |



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## 2.0 TECHNICAL DETAILS

| S. No. | Description                                          | Unit    | Value                                       |
|--------|------------------------------------------------------|---------|---------------------------------------------|
| 1.0    | <b>System Design Data</b>                            |         |                                             |
| a      | Rated voltage                                        | V       | 415                                         |
| b      | Rated frequency                                      | Hz      | 50                                          |
| c      | Voltage and frequency variation (permissible)        | %       | Voltage: $\pm 10\%$<br>Frequency: $\pm 5\%$ |
| d      | Combined voltage & frequency variation (permissible) | %       | 10% absolute                                |
| e      | System fault level & duration                        | kA, sec | 10kA for 1 sec                              |
| 2.0    | <b>Lighting Poles</b>                                |         | Hot dip galvanized Octagonal pole           |
| 2.1    | Type of Pole                                         |         |                                             |
| a      | Octagonal pole type PS-1                             |         | 9 m, Refer Clause 3.1.9 (a) of Section II   |
| b      | Octagonal pole type PF-2                             |         | 9 m, Refer Clause 3.1.9 (e) of Section II   |
| 2.2    | Material                                             |         | HT Steel Conforming to grade S355JO         |
| 2.3    | Tensile Strength                                     | MPa     | 490-630 N/mm <sup>2</sup>                   |
| 2.4    | Mounting arrangement                                 |         | [ ] PCC foundation [✓] Base plate           |
| 2.5    | Grade of concrete                                    |         | [ ] M20 [✓] M25 [ ] M30                     |
| 2.6    | Surface Treatment                                    |         | [ ] Painted [✓] Galvanized                  |

## 2.7 The general dimensions of pole are mentioned below

| Sl.no. | Height (meter) | Top Dia A/F (m) Min. | Bottom Dia A/F (mm) Min. | Sheet thickness (mm) min. | Base plate dim. (LxBxT) mm. min | Foundation bolt | Anchoring plate thickness (mm) min. |
|--------|----------------|----------------------|--------------------------|---------------------------|---------------------------------|-----------------|-------------------------------------|
|        |                |                      |                          |                           |                                 |                 |                                     |



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|   |   |    |     |   |            | Bolt size<br>(no. x<br>dia.)<br>(mm)<br>min. | PCD<br>(mm) | Bolt<br>length<br>(mm) | Projected<br>Bolt<br>length<br>(mm) |   |
|---|---|----|-----|---|------------|----------------------------------------------|-------------|------------------------|-------------------------------------|---|
| 1 | 9 | 70 | 155 | 3 | 260x260x16 | 4x24                                         | 250         | 750                    | 125                                 | 3 |

These dimension are subjected to tolerances as per IS-2102 except for bending radius.

|      |                                                     |                   |                                                                  |
|------|-----------------------------------------------------|-------------------|------------------------------------------------------------------|
| 2.8  | <b>PAINTING details for poles (if applicable)</b>   |                   | <b>(AS APPLICABLE)</b>                                           |
| a    | Paint shade as per IS:5                             |                   | NA                                                               |
| b    | Paint Thickness                                     | Microns           | NA                                                               |
| 2.9  | <b>GALVANISATION details for poles</b>              |                   |                                                                  |
| a    | Process                                             |                   | Hot dip                                                          |
| b    | Min weight of zinc coating                          | gm/m <sup>2</sup> | 460                                                              |
| c    | Avg. thickness of zinc coating                      | Microns           | 70                                                               |
| 3.0  | <b>Street Light Junction Box (Integral to pole)</b> |                   |                                                                  |
| a    | Enclosure material                                  |                   | [ ] FRP [√] CRCA Sheet.                                          |
| b    | Enclosure thickness                                 | mm                | 1.6                                                              |
| c    | Galvanisation details                               |                   |                                                                  |
| i)   | Process                                             |                   | Hot dip                                                          |
| ii)  | Min weight of zinc coating                          | gm/m <sup>2</sup> | 460                                                              |
| iii) | Avg. thickness of zinc coating                      | Microns           | 70                                                               |
| d    | Degree of protection                                |                   | IP-55                                                            |
| 4.0  | <b>Cable Glands</b>                                 |                   | <b>By vendor for all incoming and outgoing cables at Pole JB</b> |
| a    | Type                                                |                   | [√] Double compression<br>[ ] Single compression                 |
| b    | Material                                            |                   | Brass                                                            |
| c    | Nickel Plating provided                             |                   | [√] Yes [ ] No                                                   |
| d    | Size                                                |                   | Cable Gland shall be suitable for cable size : 3.5C-25sqmm       |
| 5.0  | <b>Cable Lugs</b>                                   |                   | <b>By vendor for all incoming and outgoing cables at Pole JB</b> |

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|     |                              |  |                                                                                      |
|-----|------------------------------|--|--------------------------------------------------------------------------------------|
| a   | Type                         |  | <input checked="" type="checkbox"/> Crimping type <input type="checkbox"/> Ring type |
| b   | Material                     |  | Tinned copper                                                                        |
| c   | Size                         |  | Suitable for Cable sizes: 3.5C-25sqmm<br>armoured cable.                             |
| 6.0 | <b>WIND SPEED DATA</b>       |  | As per IS-875 latest revision &<br>amendments.<br>(Wind speed : 47 meters/sec)       |
| 7.0 | <b>Soil bearing Capacity</b> |  | 4 T/m <sup>2</sup>                                                                   |



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| S. No. | Description                                          | Unit    | Value |
|--------|------------------------------------------------------|---------|-------|
| 1.0    | <b>System Design Data</b>                            |         |       |
| a      | Rated voltage                                        | V       |       |
| b      | Rated frequency                                      | Hz      |       |
| c      | Voltage and frequency variation (permissible)        | %       |       |
| d      | Combined voltage & frequency variation (permissible) | %       |       |
| e      | System fault level & duration                        | kA, sec |       |
| 2.0    | <b>Lighting Poles</b>                                |         |       |
| 2.1    | Type of Pole                                         |         |       |
| a      | PS-1 (9m), Refer 3.1.9 Section-II                    |         |       |
| b      | <del>PS-2 (12 m), Refer 3.1.9 Section-II</del>       |         |       |
| c      | <del>PS-4 (13 m), Refer 3.1.9 Section-II</del>       |         |       |
| d      | <del>PF-1 (11m), Refer 3.1.9 Section-II</del>        |         |       |
| e      | PF-2 (9m), Refer 3.1.9 Section-II                    |         |       |
| 2.2    | Material                                             |         |       |
| 2.3    | Tensile Strength                                     | MPa     |       |
| 2.4    | Mounting arrangement                                 |         |       |
| 2.5    | Grade of concrete                                    |         |       |
| 2.6    | Surface Treatment                                    |         |       |
| 2.7    | <b>PAINTING details for poles (if applicable)</b>    |         |       |
| a      | Paint shade as per IS:5                              |         |       |
| b      | Paint Thickness                                      | Microns |       |



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|      |                                        |         |                                                                                   |
|------|----------------------------------------|---------|-----------------------------------------------------------------------------------|
| 2.8  | <b>GALVANISATION details for poles</b> |         |                                                                                   |
| a    | Process                                |         |                                                                                   |
| b    | Min weight of zinc coating             | gm/m2   |                                                                                   |
| c    | Avg thickness of zinc coating          | Microns |                                                                                   |
| 3.0  | <b>Street Light Junction Box</b>       |         |                                                                                   |
| a    | Enclosure material                     |         |                                                                                   |
| b    | Enclosure thickness                    | mm      |                                                                                   |
| c    | Galvanisation details                  |         |                                                                                   |
| i)   | Process                                |         |                                                                                   |
| ii)  | Min weight of zinc coating             | gm/m2   |                                                                                   |
| iii) | Avg. thickness of zinc coating         | Microns |                                                                                   |
| d    | Degree of protection                   |         |                                                                                   |
| 4.0  | <b>Cable Glands</b>                    |         | <b>By vendor for all incoming and outgoing cables at Pole JB and feeder panel</b> |
| a    | Type                                   |         |                                                                                   |
| b    | Material                               |         |                                                                                   |
| c    | Nickel Plating provided                |         |                                                                                   |
| d    | Size                                   |         |                                                                                   |
| 5.0  | <b>Cable Lugs</b>                      |         | <b>By vendor for all incoming and outgoing cables at Pole JB and feeder panel</b> |
| a    | Type                                   |         |                                                                                   |
| b    | Material                               |         |                                                                                   |
| c    | Size                                   |         |                                                                                   |

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## SUB VENDOR'S LIST FOR OCTAGONAL GALVANIZED POLES



| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION | SL NO. | VENDOR CODE | VENDOR NAME                                           | ADDRESS                                                                                                    | PHONE                                                            | REMARKS                 |
|--------|-----------|--------------------------|--------|-------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------|
| 1      | ES1       | AC CONTACTORS            | 1      | S01         | SIEMENS                                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com           |                         |
|        |           | AC CONTACTORS            | 2      | A35         | GE-POWER                                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032        | 044-49681447                                                     |                         |
|        |           | AC CONTACTORS            | 3      | E1144       | TELEMECHANIQUE/<br>SCHNEIDER ELECTRIC INDIA PVT. LTD. | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                    | 0124-3940400                                                     | TAKEN OVER BY SCHNEIDER |
|        |           | AC CONTACTORS            | 4      | L01         | L&T                                                   | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                         | 011-41419554/59                                                  |                         |
|        |           | AC CONTACTORS            | 5      | B04         | BCH                                                   | 20/4, MATHURA ROAD, FARIDABAD, HARYANA-121006                                                              | 0129-4293000                                                     |                         |
| 2      | ES2       | AC LOAD BREAK SWITCH     | 1      | A35         | GE-POWER                                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032        | 044-49681447                                                     |                         |
|        |           | AC LOAD BREAK SWITCH     | 2      | L01         | L&T                                                   | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                         | 011-41419554/59                                                  |                         |
|        |           | AC LOAD BREAK SWITCH     | 3      | S01         | SIEMENS                                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com           |                         |
|        |           | AC LOAD BREAK SWITCH     | 4      | E1076       | KAYCEE                                                | KAYCEE INDUSTRIES LTD., C/O-CMS COMPUTERS LTD., 35A, REAR BLDG., KILOKARI, NEW DELHI-110014                | Rajiv Sharma-9312004687                                          |                         |
|        |           | AC LOAD BREAK SWITCH     | 5      | C01         | C&S ELECTRIC LTD.                                     | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                           | 011-3088 7520-29                                                 |                         |
| 3      | ES3       | AC MCCB                  | 1      | C01         | C&S ELECTRIC LTD.                                     | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                           | 011-3088 7520-29                                                 |                         |
|        |           | AC MCCB                  | 2      | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.                    | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                    | 0124-3940400                                                     |                         |
|        |           | AC MCCB                  | 3      | S01         | SIEMENS                                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com           |                         |
|        |           | AC MCCB                  | 4      | A35         | GE-POWER                                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032        | 044-49681447                                                     |                         |
|        |           | AC MCCB                  | 5      | L01         | L&T                                                   | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                         | 011-41419554/59                                                  |                         |
|        |           | AC MCCB                  | 6      | C02         | CROMPTON GREAVES                                      | RAIL TRANSPORTATION SYSTEMS,VANDANA BUILDING, 11, TOLSTOY MARG, TOLSTOY MARG, NEW DELHI, DL 110001         | 011 3041 6300                                                    |                         |
| 4      | ES4       | ACDB/ DCDB DRAWOUT TYPE  | 1      | EC05        | ELECTRO CONTROLS & DEVICES                            | M/S ELECTRO CONTROLS & DEVICES, F-41, SITE-C, SURAJPUR INDUSTRIAL AREA GREATER NOIDA UTTAR PRADESH :201308 | Mr. Sanjay Sharma (Chief Promoter) 0120-2569487, 2560100,2560300 |                         |
|        |           | ACDB/ DCDB DRAWOUT TYPE  | 2      | KM1         | KMG ATOZ SYSTEMS                                      | C-49, SECTOR-81-NOIDA-201305                                                                               | 120-4207920, 08527897328                                         |                         |
|        |           | ACDB/ DCDB DRAWOUT TYPE  | 3      | E1019       | ASIATIC                                               | A-58 NARAINA IND. AREA, PHASE-I , NEW DELHI 110028                                                         | 011 - 25796330, 25796617                                         |                         |
|        |           | ACDB/ DCDB DRAWOUT TYPE  | 4      | E05         | UNILEC ENGINEERS PVT. LTD.                            | BEHRAMPUR INDUSTRIAL AREA, BEGAMPUR KHATOLA ROAD, GURGAON-122001                                           | 0124-4030247,248, 4559700, 9911087173                            |                         |
|        |           | ACDB/ DCDB DRAWOUT TYPE  | 5      | C01         | C&S ELECTRIC LTD.                                     | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                           | 011-3088 7520-29                                                 |                         |
|        |           | ACDB/ DCDB DRAWOUT TYPE  | 6      | L01         | L&T                                                   | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                         | 011-41419554/59                                                  |                         |
|        |           | ACDB/ DCDB DRAWOUT TYPE  | 7      | A35         | GE-POWER                                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032        | 044-49681447                                                     |                         |
|        |           | ACDB/ DCDB DRAWOUT TYPE  | 8      | S01         | SIEMENS                                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com           |                         |
|        |           | ACDB/ DCDB FIXED TYPE    | 1      | EC05        | ELECTRO CONTROLS & DEVICES                            | M/S ELECTRO CONTROLS & DEVICES, F-41, SITE-C, SURAJPUR INDUSTRIAL AREA GREATER NOIDA UTTAR PRADESH :201309 | Mr. Sanjay Sharma (Chief Promoter) 0120-2569487, 2560100,2560300 |                         |
|        |           | ACDB/ DCDB FIXED TYPE    | 2      | J01         | JASPER ENGINEERS PVT. LTD.                            | A-23, SECTOR - 8, NOIDA-201301                                                                             | 0120-4033520/533                                                 |                         |
|        |           | ACDB/ DCDB FIXED TYPE    | 3      | JC01        | JACKSON ENGINEERS                                     | A-43, HOSEIRY COMPLEX, OPPOSITE NSEZ, NOIDA-201305                                                         | 0120-4302600, 2568923,27                                         |                         |
|        |           | ACDB/ DCDB FIXED TYPE    | 4      | S02         | SPACEAGE SWITCHGEARS LTD.                             | 68 & 13-A INDUSTRIAL DEVELOPMENT COLONY, MEHRAULI ROAD GURGAON, HARYANA-122001                             | 0124-2302711, 4085091                                            |                         |
|        |           | ACDB/ DCDB FIXED TYPE    | 5      | KM1         | KMG ATOZ SYSTEMS                                      | C-49, SECTOR-81-NOIDA-201305                                                                               | 120-4207920, 08527897328                                         |                         |
|        |           | ACDB/ DCDB FIXED TYPE    | 6      | E1019       | ASIATIC                                               | A-58 NARAINA IND. AREA, PHASE-I , NEW DELHI 110028                                                         | 011 - 25796330, 25796617                                         |                         |
|        |           | ACDB/ DCDB FIXED TYPE    | 7      | E05         | UNILEC ENGINEERS PVT. LTD.                            | BEHRAMPUR INDUSTRIAL AREA, BEGAMPUR KHATOLA ROAD, GURGAON-122001                                           | 0124-4030247,248, 4559700, 9911087173                            |                         |
|        |           | ACDB/ DCDB FIXED TYPE    | 8      | C01         | C&S ELECTRIC LTD.                                     | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                           | 011-3088 7520-29                                                 |                         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION  | SL NO. | VENDOR CODE | VENDOR NAME                                        | ADDRESS                                                                                                                | PHONE                                                                                                | REMARKS                 |
|--------|-----------|---------------------------|--------|-------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------|
| 5      | ES5       | ACDB/ DCDB FIXED TYPE     | 9      | E1210       | ENPRO ENGG.                                        | NO.995P, DIAMOND PLAZA, 2ND FLOOR, 12TH MAIN ROAD, ANNA NAGAR, CHENNAI-40                                              | 044 – 42611526 / 42170338 / 26262716                                                                 |                         |
|        |           | ACDB/ DCDB FIXED TYPE     | 10     | A01         | ASSOCIATED SWGR & PROJ. LTD.                       | C-10, UPSIDC, INDUSTRIAL AREA, SITE-IV, KASNA ROAD, GREATER NOIDA-201306                                               | 0120-4294618,19,20 Asplho@gmail.com                                                                  |                         |
|        |           | ACDB/ DCDB FIXED TYPE     | 11     | B04         | BCH                                                | 20/4, MATHURA ROAD, FARIDABAD, HARYANA-121006                                                                          | 0129-4293000                                                                                         |                         |
|        |           | ACDB/ DCDB FIXED TYPE     | 12     | E1043       | ECS PRIVATE LTD                                    | 7/47, Site 2, Upside Ind Area, Loni Road, MOHAN Nagar, Ghaziabad, Uttar Pradesh 201007                                 | 098 10 217990                                                                                        |                         |
|        |           | ACDB/ DCDB FIXED TYPE     | 13     | L01         | L&T                                                | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                                     | 011-41419554/59                                                                                      |                         |
|        |           | ACDB/ DCDB FIXED TYPE     | 14     | A35         | GE-POWER                                           | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032                    | 044-49681447                                                                                         |                         |
|        |           | ACDB/ DCDB FIXED TYPE     | 15     | S01         | SIEMENS                                            | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                            | 0124-2842000, 9873424331 amit.bhadauria@siemens.com                                                  |                         |
|        |           | ACDB/ DCDB FIXED TYPE     | 16     | E1080       | KHOKHAR ELECT. PVT LTD.                            | C-44, SEC-63, NOIDA-201307                                                                                             | 120- 654 5452                                                                                        |                         |
|        |           | ACDB/ DCDB FIXED TYPE     | 17     | VC01        | VIDHYUT CONTROLS (INDIA) PVT. LTD.                 | M/S VIDHYUT CONTROL (I) PVT.LTD. D-12 & 13, SECTOR-17,KAVI NAGAR INDL AREA, GHAZIABAD – 201002 ( DELHI NCR) U.P. INDIA | 0120-4186400, 0120-4186423, 8527005590(DK GUPTA)                                                     |                         |
| 6      | ES6       | AIR CIRCUIT BREAKER       | 1      | L01         | L&T                                                | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                                     | 011-41419554/59                                                                                      |                         |
|        |           | AIR CIRCUIT BREAKER       | 2      | S01         | SIEMENS                                            | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                            | 0124-2842000, 9873424331 amit.bhadauria@siemens.com                                                  |                         |
|        |           | AIR CIRCUIT BREAKER       | 3      | A35         | GE-POWER                                           | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032                    | 044-49681447                                                                                         |                         |
|        |           | AIR CIRCUIT BREAKER       | 4      | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.                 | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                | 0124-3940400                                                                                         |                         |
|        |           | AIR CIRCUIT BREAKER       | 5      | C01         | C&S ELECTRIC LTD.                                  | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                                       | 011-3088 7520-29                                                                                     |                         |
| 7      | ES7       | AUXILIARY RELAYS          | 1      | A24         | ABB                                                | 14, MATHURA ROAD, FARIDABAD, HARYANA-121003                                                                            | 0129-2567580, 09871799449                                                                            |                         |
|        |           | AUXILIARY RELAYS          | 2      | G01         | ALSTOM LTD                                         | A-7, SEC-65, NOIDA                                                                                                     | 0120-479 0000                                                                                        |                         |
|        |           | AUXILIARY RELAYS          | 3      | E1075       | JYOTI LTD.                                         | JYOTI LIMITED, E&CS DIVISION,3/15, BIDC, GORWA,VADODARA - 390 016, E-MAIL ID: ECS@JYOTI.COM                            | Ph. No.:+91-265-2281214 , Fax No.:+91-265-2281214                                                    |                         |
|        |           | AUXILIARY RELAYS          | 4      | E1099       | OEN INDIA LTD                                      | 29/1479, VYTILLA, COCHIN - 682 019 KERALA, INDIA                                                                       | Phone : +91 484 2301132, 2303709 Fax : +91 484 2302287, 2302221 sales@oenindia.com                   |                         |
|        |           | AUXILIARY RELAYS          | 5      | S01         | SIEMENS                                            | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                            | 0124-2842000, 9873424331 amit.bhadauria@siemens.com                                                  |                         |
| 8      | ES8       | BIMETAL RELAYS            | 1      | L01         | L&T                                                | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                                     | 011-41419554/59                                                                                      |                         |
|        |           | BIMETAL RELAYS            | 2      | A35         | GE-POWER                                           | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032                    | 044-49681447                                                                                         |                         |
|        |           | BIMETAL RELAYS            | 3      | S01         | SIEMENS                                            | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                            | 0124-2842000, 9873424331 amit.bhadauria@siemens.com                                                  |                         |
|        |           | BIMETAL RELAYS            | 4      | E1144       | TELEMECHANIQUE/ SCHNEIDER ELECTRIC INDIA PVT. LTD. | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                | 0124-3940400                                                                                         | TAKEN OVER BY SCHNEIDER |
| 9      | ES9       | BUCHHOLZ RELAY            | 1      | G01         | ALSTOM LTD                                         | A-7, SEC-65, NOIDA                                                                                                     | 0120-479 0000                                                                                        |                         |
|        |           | BUCHHOLZ RELAY            | 2      | E1020       | ATVUS INDUSTRIES                                   | 689, BLOCK 'O', NEW ALIPORE, CALCUTTA-700053                                                                           | (91)-(33)-24001101 / 9885 sales@atvus.in                                                             |                         |
|        |           | BUCHHOLZ RELAY            | 3      | E1070       | INSTRUMENTS & CONTROLS                             | 146,GIDC IND.ESTATE,MAKARPURA, VADODRA-390010                                                                          | 0265-2642729                                                                                         |                         |
| 10     | ES10      | CABLE CLAMPS & CABLE TIES | 1      | E1045       | ELECTROMAC IND.CORPN.                              | 27/28 AF,NEW EMPIRE IND.ESTT., R.KRISHNA MANDIR RD.JB NGR ,ANDHERI(E), MUMBAI-400059                                   | 91-22-28324829 / 66919034/ Mr. Devang Patel/ 91-9867074600 devang@electromacglands.com               |                         |
|        |           | CABLE CLAMPS & CABLE TIES | 2      | I01         | INCAB                                              | HARE STREET,KOLKATA,WEST BENGAL-700001                                                                                 | 91-33-2480161/62/63/64 Fax : 91-33-2485766                                                           |                         |
|        |           | CABLE CLAMPS & CABLE TIES | 3      | N05         | NOVOFLEX MARKETING PVT. LTD.                       | RAIKVA' - 5TH FLOOR, UNIT-6 3A, RAM MOHAN MULLICK GARDEN LANE KOLKATA - 700 010                                        | Phone: +91 33 2372 0088 Email: sales@novoflex.co.in, novoflex@vsnl.net                               |                         |
|        |           | CABLE GLANDS              | 1      | E1201       | ALLIED TRADERS & EXPORTERS                         | C-124 A, SECTOR-2, NOIDA -201 301, UTTAR PRADESH, INDIA                                                                | Mr. Vijay Mohan Sood +91-(120)-2525694 +91-(120)-3052594 +91-(11)-23287156 vijay_mohansood@yahoo.com |                         |
|        |           | CABLE GLANDS              | 2      | E1017       | ARUP ENGG & FOUNDRY WORKS                          | 391/119,PRINCE ANWAR SHAH ROAD, CALCUTTA-700068                                                                        | 033 2473 0850                                                                                        |                         |
|        |           | CABLE GLANDS              | 3      | E1206       | BALIGA LIGHTING EQPT.PVT.LTD.                      | 63A,CP RAMASWAMY ROAD, ALWARPET,P.B.No 6910, CHENNAI-600018                                                            | 44-24995505,22680990-4                                                                               |                         |
|        |           | CABLE GLANDS              | 4      | E1036       | COMMET BRASS PRODUCTS                              | NUTAN CHEMICAL COMPOUND, WALBHAT ROAD, GOREGAON, MUMBAI-400063                                                         | 91-022-26852961/62/63 comet@vsnl.net                                                                 |                         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION             | SL NO.            | VENDOR CODE | VENDOR NAME                                           | ADDRESS                                                                                                               | PHONE                                                                               | REMARKS                    |
|--------|-----------|--------------------------------------|-------------------|-------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------|
| 11     | ES11      | CABLE GLANDS                         | 5                 | DW08        | DOWELLS                                               | M/S. DOWELLS ELECTRICALS<br>47/47A, SATGURU INDUSTRIAL ESTATE.<br>OFF AAREY ROAD, GOREGOAN (EAST).<br>MUMBAI 400 063. | CEO : Mr. Jayantibhai S. Patel<br>TEL: 022-32504770./022-29270876/<br>022-29270878. |                            |
|        |           | CABLE GLANDS                         | 6                 | E1044       | ELECTROMAC INDUSTRIES                                 | 27/28AF NEW EMPIRE IND. ESTT., R. KRISHNA<br>MANDIR RD.JB NGR ,ANDHERI(E),MUMBAI-400059                               | 91-22-28324829 / 66919034<br>devang@electromacglands.com                            |                            |
|        |           | CABLE GLANDS                         | 7                 | I01         | INCAB                                                 | HARE STREET,KOLKATA,WEST BENGAL-700001                                                                                | 91-33-2480161/62/63/64<br>Fax : 91-33-2485766                                       |                            |
| 12     | ES12      | CABLE LUGS                           | 1                 | E1040       | DOWELLS                                               | M/S. DOWELLS ELECTRICALS<br>47/47A, SATGURU INDUSTRIAL ESTATE.<br>OFF AAREY ROAD, GOREGOAN (EAST).                    | CEO : Mr. Jayantibhai S. Patel<br>TEL: 022-32504770./022-29270876/<br>033 2282 2540 |                            |
|        |           | CABLE LUGS                           | 2                 | E1149       | UNIVERSAL MACHINES LTD.                               | 4,B.B.D.BAG (EAST) 90,STEPHEN HOUSE,5TH FLR<br>CALCUTTA-700001                                                        |                                                                                     |                            |
| 13     | ES13      | D.C. MCCB                            | 1                 | C02         | CROMPTON GREAVES                                      | RAIL TRANSPORTATION SYSTEMS,VANDANA<br>BUILDING, 11, TOLSTOY MARG, TOLSTOY MARG,<br>NEW DELHI, DL 110001              | 011 3041 6300                                                                       |                            |
|        |           | D.C. MCCB                            | 2                 | L01         | L&T                                                   | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                                    | 011-41419554/59                                                                     |                            |
|        |           | D.C. MCCB                            | 3                 | A35         | GE-POWER                                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A,<br>TVK INDUSTRIAL ESTATE, EKKADUTHANGAL,                                       | 044-49681447                                                                        |                            |
|        |           | D.C. MCCB                            | 4                 | S01         | SIEMENS                                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B,<br>PLOT NO. 78, SECTOR 18, GURGAON-122015,<br>INDIA                     | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com                              |                            |
| 14     | ES14      | EARTH LEAKAGE CB                     | 1                 | L01         | L&T                                                   | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                                    | 011-41419554/59                                                                     |                            |
|        |           | EARTH LEAKAGE CB                     | 2                 | S01         | SIEMENS                                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B,<br>PLOT NO. 78, SECTOR 18, GURGAON-122015,<br>INDIA                     | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com                              |                            |
|        |           | EARTH LEAKAGE CB                     | 3                 | A35         | GE-POWER                                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A,<br>TVK INDUSTRIAL ESTATE, EKKADUTHANGAL,<br>GUINDY, CHENNAI-600032             | 044-49681447                                                                        |                            |
|        |           | EARTH LEAKAGE CB                     | 4                 | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.                    | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER<br>CITY, PH-II, GURGAON-122002                                            | 0124-3940400                                                                        |                            |
|        |           | EARTH LEAKAGE CB                     | 5                 | C01         | C&S ELECTRIC LTD.                                     | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                                      | 011-3088 7520-29                                                                    |                            |
|        |           | EARTH LEAKAGE CB                     | 6                 | A24         | ABB                                                   | 14, MATHURA ROAD, FARIDABAD, HARYANA-121003                                                                           | 0129-2567580, 09871799449                                                           |                            |
|        |           | EARTH LEAKAGE CB                     | 7                 | E1068       | INDO ASIAN                                            | B-24, PHASE - II, NOIDA - 201305, U.P.                                                                                | 120-3042222                                                                         |                            |
|        |           | EARTH LEAKAGE CB                     | 8                 | E1088       | MDS SWITCHGEAR LTD                                    | 314-317SHAH NAHAR ESTATE                                                                                              | 011 - 25793021                                                                      |                            |
|        |           | EARTH LEAKAGE CB                     | 9                 | E1120       | S&S POWER SWITCHGEAR LTD,                             | NEW NO. 67, OLD NO. 19, DR. RANGA ROAD,<br>MYLAPORE, CHENNAI - 600004                                                 | 044 - 24988056, 044 - 24988057,<br>044 - 24988058                                   |                            |
|        |           | EARTH LEAKAGE CB                     |                   |             |                                                       |                                                                                                                       |                                                                                     |                            |
| 15     | ES15      | JELLY FILLED CABLES                  | 1                 | D01         | DELTON SALES LTD.                                     | DELTON HOUSE 4801,BHARAT RAM<br>ROAD,24DARYAGANJ N.DELHI-110002                                                       | 3273905-8,3262517                                                                   |                            |
|        |           | JELLY FILLED CABLES                  | 2                 | H01         | HINDUSTAN CABLES                                      | A-40 ASIAN GAMES VILLAGE RANJIT SINGH<br>BLOCK NEW DELHI-110049                                                       | 011-26493673                                                                        |                            |
|        |           | JELLY FILLED CABLES                  | 3                 | E1096       | TELELINK-NICCO                                        | NICCO HOUSE 2,HARE STREET,CALCUTTA-700001                                                                             | 91-033-66285000                                                                     |                            |
|        |           | JELLY FILLED CABLES                  | 4                 | E1151       | USHA BELTRON LTD.                                     | TATISILWAI , ranchi- 835105                                                                                           | 91 651 415 897, 415 816                                                             |                            |
| 16     | ES16      | GI CONDUITS                          | BIS APPROVED MAKE |             |                                                       |                                                                                                                       |                                                                                     |                            |
| 17     | ES17      | GI CONDUIT (EPOXY PAINTED)           | BIS APPROVED MAKE |             |                                                       |                                                                                                                       |                                                                                     |                            |
| 18     | ES18      | FLEXIBLE CONDUITS ( LEAD COATED)     | 1                 | P03         | PLICA INDIA PVT. LTD.                                 | V.P.AGARWAL<br>MANAGING DIRECTOR,<br>PLICA INDIA PVT. LTD.<br>149, MODEL TOWN EAST<br>GHAZIABAD - 201009              | M - 9810052131 / 0120-4563979 /<br>9810557567<br>Mail: agr@plicaindia.com           |                            |
| 19     | ES19      | FLEXIBLE CONDUIT (PVC COATED)        | REPUTED MAKE      |             |                                                       |                                                                                                                       |                                                                                     |                            |
| 20     | ES20      | DC CONTACTORS                        | 1                 | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.                    | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER<br>CITY, PH-II, GURGAON-122002                                            | 0124-3940400                                                                        |                            |
|        |           | DC CONTACTORS                        | 2                 | E1030       | BHEL (BHOPAL)                                         | HEAVY ELECTRICAL PLANT                                                                                                |                                                                                     |                            |
|        |           | DC CONTACTORS                        | 3                 | E1044       | ELECTROMAC INDUSTRIES                                 | 27/28AF NEW EMPIRE IND. ESTT., R. KRISHNA<br>MANDIR RD.JB NGR ,ANDHERI(E),MUMBAI-400059                               | 91-22-28324829 / 66919034<br>devang@electromacglands.com                            |                            |
|        |           | DC CONTACTORS                        | 4                 | L01         | L&T                                                   | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                                    | 011-41419554/59                                                                     |                            |
|        |           | DC CONTACTORS                        | 5                 | S01         | SIEMENS                                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B,<br>PLOT NO. 78, SECTOR 18, GURGAON-122015,<br>INDIA                     | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com                              |                            |
|        |           | DC CONTACTORS                        | 6                 | E1144       | TELEMECHANIQUE/<br>SCHNEIDER ELECTRIC INDIA PVT. LTD. | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER<br>CITY, PH-II, GURGAON-122002                                            | 0124-3940400                                                                        | TAKEN OVER BY<br>SCHNEIDER |
|        |           | DC CONTACTORS                        | 7                 | A35         | GE-POWER                                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A,<br>TVK INDUSTRIAL ESTATE, EKKADUTHANGAL,<br>GUINDY, CHENNAI-600032             | 044-49681447                                                                        |                            |
|        |           | CONTROL SWITCHES/<br>SELECTOR SWITCH | 1                 | E1076       | KAYCEE                                                | KAYCEE INDUSTRIES LTD., C/O-CMS<br>COMPUTERS LTD., 35A, REAR BLDG., KILOKARI,<br>NEW DELHI-110014                     | Rajiv Sharma-9312004687                                                             |                            |
|        |           | CONTROL SWITCHES/<br>SELECTOR SWITCH | 2                 | A35         | GE-POWER                                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A,<br>TVK INDUSTRIAL ESTATE, EKKADUTHANGAL,<br>GUINDY, CHENNAI-600032             | 044-49681447                                                                        |                            |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION                               | SL NO. | VENDOR CODE | VENDOR NAME                           | ADDRESS                                                                                                                                                             | PHONE                                                                                                                                                                   | REMARKS                            |
|--------|-----------|--------------------------------------------------------|--------|-------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 21     | ES21      | CONTROL SWITCHES/<br>SELECTOR SWITCH                   | 3      | G01         | ALSTOM LTD                            | A-7, SEC-65, NOIDA                                                                                                                                                  | 0120-479000                                                                                                                                                             |                                    |
|        |           | CONTROL SWITCHES/<br>SELECTOR SWITCH                   | 4      | S03         | SCHNEIDER ELECTRIC INDIA<br>PVT. LTD. | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER<br>CITY, PH-II, GURGAON-122002                                                                                          | 0124-3940400                                                                                                                                                            |                                    |
|        |           | CONTROL SWITCHES/<br>SELECTOR SWITCH                   | 5      | SR01        | M/s Shrenik & Co.                     | 39A/3, PANCHRATNA INDUSTRIAL ESTATE,<br>SARKHEJ-BAVLA ROAD, CHANGODAR,                                                                                              |                                                                                                                                                                         |                                    |
|        |           | CONTROL SWITCHES/<br>SELECTOR SWITCH                   | 6      | RE05        | RECOM PVT. LTD.                       | M/S RECOM PVT. LTD., 16A, 2ND FLOOR A,<br>WING RAJ INDUSTRIAL COMPLEX, MILITARY                                                                                     | Mr. Chandrashekar Kamath (MD) :<br>09820249503                                                                                                                          |                                    |
| 22     | ES22      | CONTROL TRANSFORMER/<br>WINDING HEATING<br>TRANSFORMER | 1      | E1009       | AUTOMATIC ELECTRIC LTD.               | 96 AB LONAVLA INDUSTRIAL ESTATE<br>NANGARGAON,<br>LONAVLA-410401                                                                                                    | Phone : +91 2114323665<br>Fax : +91 2114273482                                                                                                                          |                                    |
|        |           | CONTROL TRANSFORMER/<br>WINDING HEATING<br>TRANSFORMER | 2      | E1066       | INDCOIL                               | PLOT NO. A- 150/ 151, 23RD U ROAD, WAGLE<br>ESTATE, THANE WEST, CST RD, FRIENDS<br>COLONY, HALLOW PUL, KURLA WEST, MUMBAI,<br>MAHARASHTRA 400070                    | Phone:022 2583 8305                                                                                                                                                     |                                    |
|        |           | CONTROL TRANSFORMER/<br>WINDING HEATING<br>TRANSFORMER | 3      | K18         | KAPPA ELECTRICALS                     | KAPPA ELECTRICALS,<br>KAPPA CONSOLIDATED PVT. LTD.,<br>14, CART TRACK ROAD, MADUVANKARAI,<br>CHENNAI - 600 042, INDIA.                                              | PHONE: +91 - 44 - 22454709,<br>22454516, 22450794, 22450795<br>FAX: +91 - 44 - 22351662,<br>22451693 E-MAIL:<br>mira@kappaelectricals.com<br>sales@kappaelectricals.com |                                    |
|        |           | CONTROL TRANSFORMER/<br>WINDING HEATING<br>TRANSFORMER | 4      | E1082       | LOGICSTAT                             | B-160, INDUSTRIAL AREA, C BLOCK RD, OKHLA I,<br>OKHLA INDUSTRIAL AREA, NEW DELHI, DL<br>110020                                                                      | 011 2681 0032                                                                                                                                                           |                                    |
|        |           | CONTROL TRANSFORMER/<br>WINDING HEATING<br>TRANSFORMER | 5      | E1106       | PRECISE ELECTRICALS                   | 47A-49A, CHAKALA ROAD ANDHERI(E), MUMBAI-<br>99 MUMBAI, MAHARASHTRA, INDIA PIN-400<br>099                                                                           | 022-8323402 / 022-8216433                                                                                                                                               |                                    |
|        |           | CONTROL TRANSFORMER/<br>WINDING HEATING<br>TRANSFORMER | 6      | E1128       | UNILEC ENGINEERS PVT.<br>LTD.         | PLOT NO: R-247, T.T.C. INDUSTRIAL<br>AREA, M.I.D.C., RABALE,<br>NAVI MUMBAI- 400 701<br>INDIA                                                                       | +91-22- 27607787 / 27607927<br>+91-22- 27607997                                                                                                                         |                                    |
|        |           | CONTROL TRANSFORMER/<br>WINDING HEATING<br>TRANSFORMER | 7      | NK09        | M/s Newtek Electricals                | M-90, M.I.D.C, Waluj, Aurangabad 431136,<br>Maharashtra, India                                                                                                      | Tel/Fax: +91 240 2551555<br>E-mail:<br>mkt.north@newtekelectricals.com,<br>sales@newtekelectricals.com<br>Mr Sanjeev Aggarwal<br>(9958897890)                           | FOR CONTROL<br>TRANSFORMER<br>ONLY |
| 23     | ES23      | LT- CURRENT TRANSFORMER                                | 1      | S01         | SIEMENS                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B,<br>PLOT NO. 78, SECTOR 18, GURGAON-122015,<br>INDIA                                                                   | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com                                                                                                                  |                                    |
|        |           | LT- CURRENT TRANSFORMER                                | 2      | E1009       | AUTOMATIC ELECTRIC LTD.               | 96 AB LONAVLA INDUSTRIAL ESTATE<br>NANGARGAON, LONAVLA-410401                                                                                                       | Phone : +91 2114323665<br>Fax : +91 2114273482                                                                                                                          |                                    |
|        |           | LT- CURRENT TRANSFORMER                                | 3      | E1066       | INDCOIL                               | PLOT NO. A- 150/ 151, 23RD U ROAD, WAGLE<br>ESTATE, THANE WEST, CST RD, FRIENDS<br>COLONY, HALLOW PUL, KURLA WEST, MUMBAI,<br>MAHARASHTRA 400070                    | Phone:022 2583 8305                                                                                                                                                     |                                    |
|        |           | LT- CURRENT TRANSFORMER                                | 4      | K18         | KAPPA ELECTRICALS                     | KAPPA ELECTRICALS,<br>KAPPA CONSOLIDATED PVT. LTD.,<br>SOUTHERN ELECTRIKS<br>14, CART TRACK ROAD, MADUVANKARAI,<br>CHENNAI - 600 042, INDIA.                        | PHONE: +91 - 44 - 22454709,<br>22454516, 22450794, 22450795<br>FAX: +91 - 44 - 22351662,<br>22451693 E-MAIL:<br>mira@kappaelectricals.com<br>sales@kappaelectricals.com |                                    |
|        |           | LT- CURRENT TRANSFORMER                                | 5      | E1104       | PRAGATI ELECTRICALS                   | 280/3, II POKHRAN RD                                                                                                                                                | 5341779, 5427041                                                                                                                                                        |                                    |
|        |           | LT- CURRENT TRANSFORMER                                | 6      | E1106       | PRECISE ELECTRICALS                   | 47A-49A, CHAKALA ROAD ANDHERI(E), MUMBAI-<br>99 MUMBAI, MAHARASHTRA, INDIA PIN-400<br>099                                                                           | 022-8323402 / 022-8216433                                                                                                                                               |                                    |
|        |           | LT- CURRENT TRANSFORMER                                | 7      | E1128       | SILKAANS<br>ELECT.MFG.CO.PVT.LTD      | PLOT NO: R-247, T.T.C. INDUSTRIAL<br>AREA, M.I.D.C., RABALE,<br>NAVI MUMBAI- 400 701<br>INDIA                                                                       | +91-22- 27607787 / 27607927<br>+91-22- 27607997                                                                                                                         |                                    |
|        |           | LT- CURRENT TRANSFORMER                                | 8      | E1111       | PRAYOG ELECTRICALS PVT.<br>LTD.       | GROUND FLOOR, THAKORE INDUSTRIAL<br>COMPOUND, STATION ROAD, VIDYA VIHAR (W),<br>NATHANI ROAD, OPP. AMIBIKA<br>TEMPLE, MUMBAI Mumbai - 400086,<br>Maharashtra, India | 91-22-25164288/25133146<br>Mr. P. U. PATWARDHAN<br>(MANAGING DIRECTOR)                                                                                                  |                                    |
|        |           | LT- CURRENT TRANSFORMER                                | 9      | C01         | C&S ELECTRIC LTD.                     | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-<br>110020                                                                                                                | 011-3088 7520-29                                                                                                                                                        |                                    |
|        |           | LT- CURRENT TRANSFORMER                                | 10     | NK09        | M/s Newtek Electricals                | M-90, M.I.D.C, Waluj, Aurangabad 431136,<br>Maharashtra, India                                                                                                      | Tel/Fax: +91 240 2551555<br>E-mail:<br>mkt.north@newtekelectricals.com,<br>sales@newtekelectricals.com<br>Mr Sanjeev Aggarwal<br>(9958897890)                           |                                    |
|        |           | LT- POTENTIAL TRANSFORMER                              | 1      | S01         | SIEMENS                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B,<br>PLOT NO. 78, SECTOR 18, GURGAON-122015,<br>INDIA                                                                   | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com                                                                                                                  |                                    |
|        |           | LT- POTENTIAL TRANSFORMER                              | 2      | E1009       | AUTOMATIC ELECTRIC LTD.               | 96 AB LONAVLA INDUSTRIAL ESTATE<br>NANGARGAON, LONAVLA-410401                                                                                                       | Phone : +91 2114323665<br>Fax : +91 2114273482                                                                                                                          |                                    |
|        |           | LT- POTENTIAL TRANSFORMER                              | 3      | E1066       | INDCOIL                               | PLOT NO. A- 150/ 151, 23RD U ROAD, WAGLE<br>ESTATE, THANE WEST, CST RD, FRIENDS<br>COLONY, HALLOW PUL, KURLA WEST, MUMBAI,<br>MAHARASHTRA 400070                    | Phone:022 2583 8305                                                                                                                                                     |                                    |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION  | SL NO. | VENDOR CODE | VENDOR NAME                           | ADDRESS                                                                                                                                                                  | PHONE                                                                                                                                                                   | REMARKS |
|--------|-----------|---------------------------|--------|-------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 24     | ES24      | LT- POTENTIAL TRANSFORMER | 4      | K18         | KAPPA ELECTRICALS                     | KAPPA ELECTRICALS,<br>KAPPA CONSOLIDATED PVT. LTD.,<br>SOUTHERN ELECTRIKS<br>14, CART TRACK ROAD, MADUVANKARAI,<br>CHENNAI - 600 042, INDIA.                             | PHONE: +91 - 44 - 22454709,<br>22454516, 22450794, 22450795<br>FAX: +91 - 44 - 22351662,<br>22451693 E-MAIL:<br>mira@kappaelectricals.com<br>sales@kappaelectricals.com |         |
|        |           | LT- POTENTIAL TRANSFORMER | 5      | E1104       | PRAGATI ELECTRICALS                   | 280/3,II POKHRAN RD                                                                                                                                                      | 5341779,5427041                                                                                                                                                         |         |
|        |           | LT- POTENTIAL TRANSFORMER | 6      | E1106       | PRECISE ELECTRICALS                   | 47A-49A,CHAKALA ROAD ANDHERI(E),MUMBAI-<br>99 MUMBAI, MAHARASHTRA, INDIA PIN-400<br>099                                                                                  | 022-8323402 / 022-8216433                                                                                                                                               |         |
|        |           | LT- POTENTIAL TRANSFORMER | 7      | E1128       | SILKAANS<br>ELECT.MFG.CO.PVT.LTD      | PLOT NO: R-247, T.T.C. INDUSTRIAL<br>AREA, M.I.D.C , RABALE,<br>NAVI MUMBAI- 400 701<br>INDIA                                                                            | +91-22- 27607787 / 27607927<br>+91-22- 27607997                                                                                                                         |         |
|        |           | LT- POTENTIAL TRANSFORMER | 8      | E1111       | PRAYOG ELECTRICALS PVT.<br>LTD.       | GROUND FLOOR, THAKORE INDUSTRIAL<br>COMPUND, STATION ROAD, VIDYA VIHAR (W),<br>NATHANI ROAD , OPP. AMIBIKA<br>TEMPLE,MUMBAI Mumbai - 400086,<br>Maharashtra, India       | 91-22-25164288/25133146<br>Mr. P. U. PATWARDHAN<br>(MANAGING DIRECTOR)                                                                                                  |         |
|        |           | LT- POTENTIAL TRANSFORMER | 9      | NK09        | M/s Newtek Electricals                | M-90, M.I.D.C, Waluj, Aurangabad 431136,<br>Maharashtra, India                                                                                                           | Tel/Fax: +91 240 2551555<br>E-mail:<br>mkt.north@newtekelectricals.com,<br>sales@newtekelectricals.com<br>Mr Sanjeev Aggarwal<br>(9958897890)                           |         |
| 25     | ES25      | DC SWITCH                 | 1      | A35         | GE-POWER                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A,<br>TVK INDUSTRIAL ESTATE, EKKADUTHANGAL,<br>GUINDY, CHENNAI-600032                                                                | 044-49681447                                                                                                                                                            |         |
|        |           | DC SWITCH                 | 2      | E1076       | KAYCEE                                | KAYCEE INDUSTRIES LTD., C/O-CMS<br>COMPUTERS LTD., 35A, REAR BLDG., KILOKARI,<br>NEW DELHI-110014                                                                        | Rajiv Sharma-9312004687                                                                                                                                                 |         |
|        |           | DC SWITCH                 | 3      | S01         | SIEMENS                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B,<br>PLOT NO. 78, SECTOR 18, GURGAON-122015,<br>INDIA                                                                        | 0124-2842000, 9873424331<br>amit.bhadoria@siemens.com                                                                                                                   |         |
| 26     | ES26      | DISTRIBUTION BOX          | 1      | SRC01       | M/S SHRENIK & CO.                     | 39A/3, PANCHRATNA INDUSTRIAL ESTATE,<br>SARKHEJ-BAVLA ROAD, CHANGODAR,<br>AHMEDABAD – 382 213                                                                            |                                                                                                                                                                         |         |
| 27     | ES27      | EMER. PORTABLE LTG. SET   | 1      | B05         | BAJAJ ELECTRICALS                     | BAJAJ ELECTRICALS LTD.<br>ENGINEERING & PROJECTS BU (NORTH)<br>3rd FLOOR, GULMOHARHOUSE,<br>COMMUNITY CENTRE 161/B-4,<br>GAUTAM NAGAR, YUSUF SARAI<br>NEW DELHI – 110049 | CONTACT PERSON : Mr. S.<br>SREEMANY. SR. MANAGER<br>(PROJECTS) CONTACT DETAILS :<br>(+91) 9871025705.<br>MAIL ID :<br>srabans@bajajelectricals.com;                     |         |
|        |           | EMER. PORTABLE LTG. SET   | 2      | B05         | BAJAJ ELECTRICALS                     | BAJAJ ELECTRICALS LTD.<br>ENGINEERING & PROJECTS BU (NORTH)<br>3rd FLOOR, GULMOHARHOUSE,<br>COMMUNITY CENTRE 161/B-4,<br>GAUTAM NAGAR, YUSUF SARAI<br>NEW DELHI – 110049 | SREEMANY. SR. MANAGER<br>(PROJECTS) CONTACT DETAILS :<br>(+91) 9871025705. MAIL ID :<br>srabans@bajajelectricals.com;                                                   |         |
| 28     | ES28      | FUSE BASE                 | 1      | E1068       | INDO ASIAN                            | B-24, PHASE - II , NOIDA - 201305, U.P.                                                                                                                                  | 120-3042222                                                                                                                                                             |         |
|        |           | FUSE BASE                 | 2      | G01         | GE-POWER                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A,<br>TVK INDUSTRIAL ESTATE, EKKADUTHANGAL,<br>GUINDY, CHENNAI-600032                                                                | 044-49681447                                                                                                                                                            |         |
|        |           | FUSE BASE                 | 3      | L01         | L&T                                   | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-<br>110015                                                                                                                   | 011-41419554/59                                                                                                                                                         |         |
|        |           | FUSE BASE                 | 4      | C01         | C&S ELECTRIC LTD.                     | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-<br>110020                                                                                                                     | 011-3088 7520-29                                                                                                                                                        |         |
|        |           | FUSE BASE                 | 5      | S01         | SIEMENS                               | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B,<br>PLOT NO. 78, SECTOR 18, GURGAON-122015,<br>INDIA                                                                        | 0124-2842000, 9873424331<br>;amit.bhadoria@siemens.com                                                                                                                  |         |
|        |           | FUSE BASE                 | 6      | A24         | ABB                                   | 14, MATHURA ROAD, FARIDABAD, HARYANA-<br>121003                                                                                                                          | 0129-2567580, 09871799449                                                                                                                                               |         |
|        |           | FUSE BASE                 | 7      | S02         | SPACEAGE SWITCHGEARS<br>LTD.          | 68 & 13-A INDUSTRIAL DEVELOPMENT COLONY,<br>MEHRAULI ROAD GURGAON, HARYANA-122001                                                                                        | 0124-2302711, 4085091                                                                                                                                                   |         |
|        |           | FUSE BASE                 | 8      | S03         | SCHNEIDER ELECTRIC INDIA<br>PVT. LTD. | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER<br>CITY, PH-II, GURGAON-122002                                                                                               | 0124-3940400                                                                                                                                                            |         |
|        |           | FUSE BASE                 | 9      | G01         | ALSTOM LTD                            | A-7, SEC-65, NOIDA                                                                                                                                                       | 0120-479 0000                                                                                                                                                           |         |
|        |           | FUSE BASE                 | 10     | E1050       | ESSEN DEINKI                          | FLAT NO. 502, SKYLINE HOUSE 85, NEHRU<br>PLACE NEW DELHI                                                                                                                 | 011-26217060                                                                                                                                                            |         |
|        |           | HRC FUSES                 | 1      | E1068       | INDO ASIAN                            | B-24, PHASE - II , NOIDA - 201305, U.P.                                                                                                                                  | 120-3042222                                                                                                                                                             |         |
|        |           | HRC FUSES                 | 2      | G01         | GE-POWER                              | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A,<br>TVK INDUSTRIAL ESTATE, EKKADUTHANGAL,<br>GUINDY, CHENNAI-600032                                                                | 044-49681447                                                                                                                                                            |         |
|        |           | HRC FUSES                 | 3      | L01         | L&T                                   | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-<br>110015                                                                                                                   | 011-41419554/59                                                                                                                                                         |         |
|        |           | HRC FUSES                 | 4      | C01         | C&S ELECTRIC LTD.                     | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-<br>110020                                                                                                                     | 011-3088 7520-29                                                                                                                                                        |         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION | SL NO. | VENDOR CODE | VENDOR NAME                                                | ADDRESS                                                                                                                                                | PHONE                                                   | REMARKS |
|--------|-----------|--------------------------|--------|-------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------|
| 29     | ES29      | HRC FUSES                | 5      | S01         | SIEMENS                                                    | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                                                            | 0124-2842000, 9873424331<br>;amit.bhadauria@siemens.com |         |
|        |           | HRC FUSES                | 6      | A24         | ABB                                                        | 14, MATHURA ROAD, FARIDABAD, HARYANA-121003                                                                                                            | 0129-2567580, 09871799449                               |         |
|        |           | HRC FUSES                | 7      | S02         | SPACEAGE SWITCHGEARS LTD.                                  | 68 & 13-A INDUSTRIAL DEVELOPMENT COLONY, MEHRAULI ROAD GURGAON, HARYANA-122001                                                                         | 0124-2302711, 4085091                                   |         |
|        |           | HRC FUSES                | 8      | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.                         | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                                                | 0124-3940400                                            |         |
|        |           | HRC FUSES                | 9      | G01         | ALSTOM LTD                                                 | A-7, SEC-65, NOIDA                                                                                                                                     | 0120-479 0000                                           |         |
|        |           | HRC FUSES                | 10     | E1050       | ESSEN DEINKI                                               | FLAT NO. 502, SKYLINE HOUSE 85, NEHRU PLACE NEW DELHI                                                                                                  | 011-26217060                                            |         |
| 30     | ES30      | GALVANISING              | 1      |             | Jenco Industrial Corporation                               | Chincholi Bunder Khkar Road Near Link Road Devruwadi Malad (W) Mumbai 400064                                                                           |                                                         |         |
|        |           | GALVANISING              | 2      |             | National Galvanizing Company                               | 66, Barrackpore Kamarhatt Trunck Road Calcutta-700058                                                                                                  |                                                         |         |
|        |           | GALVANISING              | 3      |             | Sigma Galvanising Pvt. Ltd.                                | Plot No.C-169, TTC, MIDC Ind Area Navin Mumbai-400705                                                                                                  | 8725402,8725765                                         |         |
|        |           | GALVANISING              | 4      |             | B.P. Projects PVT LTD                                      | 167A, Vivekananda Road Kolkata-700006                                                                                                                  | 033 2553 1254                                           |         |
|        |           | GALVANISING              | 5      |             | Standard Galvanisers                                       | Makardah Road, Kabar Para, Bankra, Howarah -711403                                                                                                     | 28756318/28741986/28725402/2 8725765                    |         |
|        |           | GALVANISING              | 6      |             | Steel Products                                             | National Highway No. 6, Chamrail, Kona, Howrah-711114                                                                                                  |                                                         |         |
|        |           | GALVANISING              | 7      |             | Unitech Fabricators & Engineers Pvt. Ltd.                  | Village- Ajab Nagar, P.O. -Molla Simlla, P.S. - Singur, Dist - Hoogly, Pin-712223                                                                      | 022 -27686606/ 1907                                     |         |
|        |           | GALVANISING              | 8      |             | Shivam Engineers & Fabricators                             | A0-282-284, Industrial Area, South Side of G.T. Road, Ghaziabad, U.P.                                                                                  |                                                         |         |
|        |           | GALVANISING              | 9      |             | B.G. Shirke Construction Technology Pvt. Ltd               | 72-76, Mundhawa, Pune - 401 036                                                                                                                        |                                                         |         |
|        |           | GALVANISING              | 10     |             | Galbro Ispat Galvanizers Pvt. Ltd.                         | GUT 11 AND 12, OPP. Kudus Steel,Rolling Mill, Wada, Thane , Mumbai                                                                                     |                                                         |         |
|        |           | GALVANISING              | 11     |             | Eros Metals                                                | G-97, MIDC, Bhutibori , Nagpur                                                                                                                         |                                                         |         |
|        |           | GALVANISING              | 12     |             | Industrial Perforation (India) Pvt. Ltd.                   | Ganganagr, Katakhal, Kolkata-700132                                                                                                                    |                                                         |         |
|        |           | GALVANISING              | 13     |             | Indmark Formtech Pvt. Ltd.                                 | Phase - 3, E - 11 / 1, M. I. D. C., Chakan, Pune - 410 501, Maharashtra, India.                                                                        |                                                         |         |
|        |           | GALVANISING              | 14     |             | Namdhari Industrial Traders Pvt. Ltd.                      | Village Latton Dana, Chandigarh Road, Ludhiana                                                                                                         |                                                         |         |
|        |           | GALVANISING              | 15     |             | Neha Galvaniser                                            | Jalan Industrial Estate, Gate No-1, 1st Right Choise Lane, Near N.G-6, Jangalpur, PO Domjur Howrah - 700071, West Bengal, India                        |                                                         |         |
|        |           | GALVANISING              | 16     |             | Patny Systems (P) Ltd.                                     | Unit-IV, Sy No. -228/9, Plot No. 6, IP Kuchavaram, Toopran(M) Dist.- Medak, Telegana - 502336                                                          |                                                         |         |
|        |           | GALVANISING              | 17     |             | Parmar Metal Company                                       | Survey No.207,Veraval (Shapar) Dist. Rajkot, India.                                                                                                    |                                                         |         |
|        |           | GALVANISING              | 18     |             | Rukmani Electrical & Components Pvt Ltd                    | Urla Industrial Area, Urla Sarora Road, Raipur-- 493 221 (Chhattisgarh)                                                                                |                                                         |         |
|        |           | GALVANISING              | 19     |             | Rukmani Fab & Gal Pvt Ltd                                  | Shankharidaha Baniyarah, Jalan Industrial Complex, Gate no.3, Lane no. 4, Domjur, Howrah , W.B. - 711411                                               |                                                         |         |
|        |           | GALVANISING              | 20     |             | DMP Projects Pvt.Ltd.                                      | Dulagarh Industrial Park , PS-Sankrail , Howrah -711302                                                                                                |                                                         |         |
|        |           | GALVANISING              | 21     |             | Vinfab Engineers India Private Limited                     | Gut no. 224/1 &2 Bhiwandi Wada State Highway, Village khupri, Dist. Thane, Maharashtra -421303                                                         |                                                         |         |
|        |           | GALVANISING              | 22     |             | Saral Projects & Processors                                | B-1, Industrial Area, Site-II, Amawan Road Rae Bareli                                                                                                  |                                                         |         |
|        |           | GALVANISING              | 23     |             | Brahampuri Steels Limited                                  | 172 (F) Industrial Area, Jhotwara, Jaipur-302013                                                                                                       |                                                         |         |
|        |           | GALVANISING              | 24     | AT08        | Indiana Gratings PVT. LTD M/S AVAIDS TECHNOVATORS PVT. LTD | F-5, MIDC Jejuri, Pune-412 303                                                                                                                         |                                                         |         |
|        |           | GI WIRE & FLAT           | 1      | I039        | INDUSTRIAL PERFORATION (I) PVT.LTD.                        | MR. A. K. SAHA 327, R.N.GUHA ROAD, DUM DUM KOLKATA-West Bengal-India Phone- 9830241788 Pincode : 700028 Email : ipipl@cal2.vsnl.net.in                 | 011 2737 3579                                           |         |
|        |           | GI WIRE & FLAT           | 2      | I070        | INDIA ELECTRICALS SYNDICATE                                | Mr. Suresh Kumar Agarwal 55, Ezra Street, Kolkata-West Bengal-India Phone- 033- 22354047 Pincode : 700001 Email : cabletray@vsnl.com                   | 022-28511704                                            |         |
|        |           | GI WIRE & FLAT           | 3      | I072        | INDMARK FORMTECH PVT. LTD.                                 | Mr. Narendra R. Meher J Block, Plot No.-375, MIDC BHOSARI PUNE-MAHARASHTRA-INDIA Phone- 020-27130546 Pincode : 411026 Email : indmarkformtech@vsnl.net |                                                         |         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION | SL NO. | VENDOR CODE | VENDOR NAME                               | ADDRESS                                                                                                                                                                                    | PHONE                                                                                                      | REMARKS |
|--------|-----------|--------------------------|--------|-------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------|
| 31     | ES31      | GI WIRE & FLAT           | 4      | P039        | PREMIER POWER PRODUCTS (CAL) PVT. LTD.    | Chatterjee International Centre, 33A, Jawaharlal Nehru Road, 6th Floor, Suit No. - 11A, Kolkata,- West Bengal-India Phone- 9331008739 Pincode : 700071 Email : hemantdaga@dagaventures.com |                                                                                                            |         |
|        |           | GI WIRE & FLAT           | 5      | P050        | PATNY SYSTEMS (P) LTD                     | PATNY PLAZA 160 , SARDAR PATEL ROAD SEUNDRABAD SECUNDRABAD-TELANGANA-INDIA Phone- 040-27902451 Pincode : 500003 Email : mr.mkt@patnysystems.com                                            |                                                                                                            |         |
|        |           | GI WIRE & FLAT           | 6      | P079        | PASSIVE INFRA PROJECTS PVT. LTD.          | MR. VARUN AGRAWAL 182, VAISHALI, PITAMPURA Delhi-DELHI-INDIA Phone- 9871183059 Pincode : 110088 Email : ATANU.SAHA@PASSIVEINFRA.COM                                                        |                                                                                                            |         |
|        |           | GI WIRE & FLAT           | 7      | R036        | RUKMANI ELECTRICAL & COMPONENTS PVT LTD   | 11A , MAHARISHI DEBENDRA ROAD 1ST FL , ROOM NO.4 KOLKATA-WEST BENGAL-INDIA Phone- Pincode : 700007 Email : maruthikabra@gmail.com                                                          |                                                                                                            |         |
|        |           | GI WIRE & FLAT           | 8      | R037        | RATAN PROJECTS & ENGINEERING CO. PVT.LTD. | MR. G.D. SINGHEE/MR. MAHESH SINGHEE 26, P.K. TAGORE STREET, MAIN BUILDING KOLKATA- WEST BENGAL-INDIA Phone- 9830177331 Pincode : 700006 Email : mahesh@ratans.com                          |                                                                                                            |         |
|        |           | GI WIRE & FLAT           | 9      | R041        | RABI ENGINEERING WORKS PVT. LTD.          | MR. TAPAN KUMAR SEN/MR. SIDDHARTHA 327, R.N. GUHA ROAD, DUM DUM, KOLKATA-WEST BENGAL-INDIA Phone- 9748753002 Pincode : 700028 Email : rabiengineering@gmail.com                            |                                                                                                            |         |
|        |           | GI WIRE & FLAT           | 10     | R200        | RAJASTHAN METAL SMELTING CO.              | Mr. R. K. Tibrewala D-80, Road No. 7, V.K.I.A., Jaipur-Rajasthan-India Phone- 0141-2332269 Pincode : 302013 Email : info@rmscoindia.com                                                    |                                                                                                            |         |
|        |           | GI WIRE & FLAT           | 11     | S210        | SARAL INDUSTRIES                          | Mr. Y.K. Gupta L-1, L-2, Industrial Area-1 Sultanpur Road Rae Bareilly-Uttar Pradesh-India Phone- 0535-2702474 Pincode : 229010 Email : saralindustries@gmail.com                          |                                                                                                            |         |
|        |           | GI WIRE & FLAT           | 12     |             | PARCO Engineers Pvt. Ltd.                 | 401, skyline Epitom Building ,Near to Jolly Gym Khana, Kirol Road , Vidhyavihar, MH 400086 India                                                                                           |                                                                                                            |         |
|        |           | GI WIRE & FLAT           | 13     | U019        | UNITECH FABRICATORS and ENGINEERS PVT LTD | INDRAPRASHTHA APARTMENT 24 , M.B.RAOD , BIRATI KALABAGAN KOLKATA KOLKATA-WEST BENGAL-INDIA Phone- Pincode : 700051 Email : ufepl@vsnl.net; ufepl@rediffmail.com                            | 022 - 26230814                                                                                             |         |
| 32     | ES32      | HIGH MAST                | 1      | B05         | BAJAJ ELECTRICALS                         | BAJAJ ELECTRICALS LTD. ENGINEERING & PROJECTS BU (NORTH) 3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049                                  | SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. MAIL ID :rabans@bajajelectricals.com; |         |
|        |           | HIGH MAST                | 2      | TL01        | M/S TRANSRAIL LIGHTING LIMITED (TLL)      | M/S TRANSRAIL LIGHTING LIMITED (TLL), GAMMON INDIA LIMITED 2ND FLOOR , CENTRIC PLAZA, PLOT NO.8 POCKET-4, SECTOR-11 DWARKA , NEW DELHI -110075                                             | hemant.jain@transrailttd.com'                                                                              |         |
| 33     | ES33      | IND.POWER & WLDG SOCKETS | 1      | C02         | CROMPTON GREAVES                          | 3RD FLOOR, EXPRESS BUILDING,9-10, BAHADUR SHAH ZAFAR MARG, NEAR ITO CROSSING,NEW DELHI-110002, INDIA                                                                                       | 91 11 23460700 - 999 'Sunil.Das@cgglobal.com                                                               |         |
|        |           | IND.POWER & WLDG SOCKETS | 2      | E1207       | CYCLO ELECTRIC DEVICE & SERV.CO.          | A-3, NEAR ANTHEM BIOSCIENCE, KSSIDC INDUSTRIAL AREA, BOMMASANDRA, BOMMASANDRA INDUSTRIAL AREA, BANGALORE, KARNATAKA 560099                                                                 | Mr. H.Jaishanker +919845039081, 080 - 27833102, 080 - 27833103 : +91 80 41460985 'cycloelectric@gmail.com  |         |
|        |           | IND.POWER & WLDG SOCKETS | 3      | B04         | BCH                                       | 20/4, MATHURA ROAD, FARIDABAD - 121006, HARYANA, INDIA                                                                                                                                     | 0(129)-4063000, 9015800189(Ramesh Giri) 'ramesh.giri@bchindia.com                                          |         |
|        |           | IND.POWER & WLDG SOCKETS | 4      | B02         | BEST & CROMPTON                           | Best & Crompton Engineering Ltd                                                                                                                                                            | Ph : +91 44 4551 4724 , MRKT                                                                               | BEST &  |
|        |           | IND.POWER & WLDG SOCKETS | 5      | A03         | AJMERIA INDUSTRIES & ENGG. WORKS          | AJMERIA INDL. AND ENGG. WORKS. AJMERIA HOUSE, A-61 / KHAIRANE MIDC. , TTC INDL. AREA, NAVI MUMBAI – 400705.                                                                                | Tel : 022 27620299 / 97 / 96 'mail@ajmeria.net                                                             |         |
| 34     | ES34      | INTERPOSING RELAY        | 1      | A24         | ABB                                       | 14, MATHURA ROAD, FARIDABAD, HARYANA-121003                                                                                                                                                | 0129-2567580, 09871799449                                                                                  |         |
|        |           | INTERPOSING RELAY        | 2      | G01         | ALSTOM LTD                                | A-7, SEC-65, NOIDA                                                                                                                                                                         | 0120-479 0000                                                                                              |         |
|        |           | INTERPOSING RELAY        | 3      | E1075       | JYOTI LTD.                                | JYOTI LIMITED, E&CS DIVISION,3/15, BIDC, GORWA,VADODARA - 390 016, E-MAIL ID: ECS@JYOTI.COM                                                                                                | Ph. No.:+91-265-2281214 , Fax No.:+91-265-2281214                                                          |         |
|        |           | INTERPOSING RELAY        | 4      | E1099       | OEN INDIA LTD                             | 29/1479, VYTILLA, COCHIN - 682 019 KERALA, INDIA                                                                                                                                           | Phone : +91 484 2301132, 2303709 Fax : +91 484 2302287, 2302221 sales@oenindia.com                         |         |
|        |           | INTERPOSING RELAY        | 5      | S01         | SIEMENS                                   | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                                                                                                | 0124-2842000, 9873424331 amit.bhadauria@siemens.com                                                        |         |
|        |           | INDICATING LAMPS         | 1      | B04         | BCH                                       | 20/4, MATHURA ROAD, FARIDABAD, HARYANA-121006                                                                                                                                              | 0129-4293000                                                                                               |         |
|        |           | INDICATING LAMPS         | 2      | C01         | C&S ELECTRIC LTD.                         | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                                                                                                           | 6832259,6918834-37                                                                                         |         |
|        |           | INDICATING LAMPS         | 3      | E1050       | ESSEN DEINKI                              | FLAT NO. 502, SKYLINE HOUSE 85, NEHRU PLACE NEW DELHI                                                                                                                                      | 011-26217060                                                                                               |         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION         | SL NO. | VENDOR CODE | VENDOR NAME                             | ADDRESS                                                                                                                                                   | PHONE                                                                                                                                                                                                             | REMARKS     |
|--------|-----------|----------------------------------|--------|-------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 35     | ES35      | INDICATING LAMPS                 | 4      | E1153       | VAISHNO(HOTLINE SWGR.& CONTROL)         | G-19, SECTOR - 11, NOIDA - 201301, UTTAR PRADESH, INDIA                                                                                                   | 8377805157<br>9818338922                                                                                                                                                                                          |             |
|        |           | INDICATING LAMPS                 | 5      | A35         | GE-POWER                                | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032                                                       | 9818338922                                                                                                                                                                                                        |             |
|        |           | INDICATING LAMPS                 | 6      | S01         | SIEMENS                                 | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                                                               | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com                                                                                                                                                            |             |
|        |           | INDICATING LAMPS                 | 7      | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.      | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                                                   | 0124-3940400                                                                                                                                                                                                      |             |
| 36     | ES36      | JUNCTION BOXES (NON FLAME PROOF) | 1      | J01         | JASPER ENGINEERS PVT. LTD.              | A-23, SECTOR - 8, NOIDA-201301                                                                                                                            | 0120-4033520/533                                                                                                                                                                                                  |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 2      | EC05        | Electro Controls & Devices              | M/S ELECTRO CONTROLS & DEVICES, F-41, SITE-C, SURAJPUR INDUSTRIAL AREA GREATER NOIDA, UTTAR PRADESH :201308                                               | Mr. Sanjay Sharma (Chief Promoter) 0120-2569487, 2560100,2560300                                                                                                                                                  |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 3      | SRC01       | M/s Shrenik & Co.                       | 39A/3, PANCHRATNA INDUSTRIAL ESTATE, SARKHEI-BAVLA ROAD, CHANGODAR, AHMEDABAD – 382 213                                                                   | 020-026708100                                                                                                                                                                                                     |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 4      | PME-01      | M/s PHOENIX MECANO LTD.,                | 388 BHARE, TALUKA MULSHI, POST GHOTAWADE, PIRANGOOT, INDUSTRIAL AREA, PUNE-412115                                                                         | Awasthi(09971119006)<br>Tel: ++91 20 6674 5103, Mobile: ++91 90499 95985, Fax: ++91 20 6674 5126                                                                                                                  |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 5      | ACE01       | Adroit Control Engineers Pvt.Ltd.       | M/S ADROIT CONTROL ENGINEERS PVT.LTD. PLOT-3, KRISHNA INDL. AREA, SECTOR-25 FARIDABAD – 121004                                                            | 011-47600700, 0129-4251400                                                                                                                                                                                        |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 6      | PME-01      | M/s PHOENIX MECANO LTD.,                | 388 BHARE, TALUKA MULSHI, POST GHOTAWADE, PIRANGOOT, INDUSTRIAL AREA, PUNE-412115                                                                         | Awasthi(09971119006)<br>Tel: ++91 20 6674 5103, Mobile: ++91 90499 95985, Fax: ++91 20 6674 5126 contact person : Vishwa bandhu E-mail:d.gupta@pmipl-online.com ;admin@pmipl-online.com                           |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 7      | MK01        | MIKA ENGINEERS                          | BRANCH OFFICE : 'D'-101, DHEERAJ HERITAGE RESIDENCY II, SHASTRI NAGAR, SANTACRUZ (W), MUMBAI 400 054.                                                     | Director : Mr. Asgar Karimi Email: asgar@mikaengineers.com<br><br>E-mail : mika@mtnl.net.inTelfax : 022-26610081/82/83/84Tel : 02527-249066/70 Cell : 099230 74373                                                | TYPE-S ONLY |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 8      | PME-01      | M/s PHOENIX MECANO LTD.,                | 388 BHARE, TALUKA MULSHI, POST GHOTAWADE, PIRANGOOT, INDUSTRIAL AREA, PUNE-412115                                                                         | TEL:- +912066745000<br>Awasthi(09971119006)<br>Tel: ++91 20 6674 5103, Mobile: ++91 90499 95985, Fax: ++91 20 6674 5126<br>contact person : Vishwa bandhu E-mail:d.gupta@pmipl-online.com ;admin@pmipl-online.com |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 9      | B05         | BAJAJ ELECTRICALS                       | BAJAJ ELECTRICALS LTD. ENGINEERING & PROJECTS BU (NORTH) 3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049 | CONTACT PERSON : Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. MAIL ID : srabans@bajajelectricals.com;                                                                              |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 10     | A03         | AJMERIA INDUSTRIES & ENGG. WORKS        | AJMERIA INDL. AND ENGG. WORKS. AJMERIA HOUSE, A-61 / KHAIRANE MIDC., TTC INDL. AREA, NAVI MUMBAI – 400705.                                                | Tel : 022 27620299 / 97 / 96 'mail@ajmeria.net                                                                                                                                                                    |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 11     | SB02        | S.B. ELECTRICAL ENGINEERING CORPORATION | 03, SARDAR GRIHA BUILDING, LOHAR CHAWAL, MUMBAI-400002                                                                                                    | 022- 22069831; 022-66637259                                                                                                                                                                                       |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 12     | RT13        | RITTAL INDIA PVT. LTD.                  | Espire Building ,Level -1 A-41, Mohan Co- Operative Industrial Estate ,Mathura Road, New Delhi -110044                                                    | Amit Bansal Phone: 011-42004000, D: 011-42004033 · Mobile: +91 9717772245 · mailto:amit.b@rittal-india.com www.rittal-india.com                                                                                   |             |
|        |           | JUNCTION BOXES (NON FLAME PROOF) | 13     | HP08        | HPL ELECTRIC AND POWER LTD.             | Works Address: Village Shavella, PO:Jabli, Teh- Kasauli, Dist-Solan, Himachal Pradesh-173209                                                              | Mr. Ashwani Kumar mailto:'ashwani@hplindia.com' M:9971127370                                                                                                                                                      |             |
| 37     | ES37      | JUNCTION BOXES (FLAME PROOF)     | 1      | SS01        | SUDHIR SWITCHGEAR                       | 305/6, APEEJAY HOUSE, 130, BOMBAY SAMACHAR MARG, MUMBAI - 400 023. INDIA                                                                                  | Telephone Nos. : 40460000 (100 lines)<br>Fax Nos. : ++91-22-22049381<br>Email : md@sudhirschwitchgears.com ; works@sudhirschwitchgears.com ;scud@vsnl.com                                                         |             |
|        |           | LIGHTING DISTRIBUTION BOARDS     | 1      | E1007       | ADVANCE ENGG. COMPANY                   | 38,SETHI IND. ESTATE 10/E,SUREN RD,ANDHERI MUMBAI-400097                                                                                                  | 91 - 22 - 24360086                                                                                                                                                                                                |             |



| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION     | SL NO. | VENDOR CODE | VENDOR NAME                              | ADDRESS                                                                                                                                                   | PHONE                                                                                                                                                                           | REMARKS |
|--------|-----------|------------------------------|--------|-------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 38     | ES38      | LIGHTING DISTRIBUTION BOARDS | 2      | STRG01      | Sterling Generators Pvt. Ltd.            | C-56/38, INSTITUTIONAL AREA, SECTOR-62, NOIDA -201307, U.P.                                                                                               | Nityanand Engineer-Sales & Marketing (Panel Division)<br>Noida, UP   201307, India<br>Mobile-+91-8510022170                                                                     |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 3      | E1091       | MIKA ENGINEERS                           | BRANCH OFFICE :<br>'D'-101, DHEERAJ HERITAGE RESIDENCY II, SHASTRI NAGAR, SANTACRUZ (W), MUMBAI 400 054.                                                  | Director :<br>Mr. Asgar Karimi<br>E-mail : mika@mtnl.net.inTelfax :<br>022-26610081/82/83/84Tel :<br>02527-249066/70<br>Cell : 099230 74373 ; Email:<br>asgar@mikaengineers.com |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 4      | F04         | ELEXPRO ELECTRICALS PVT/ LTD.            | C 1/27 & 37 GIDC KABILPORE NAVSARI-396424                                                                                                                 | 02637-265140, Mr. Jssk kumar                                                                                                                                                    |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 5      | KM1         | KMG ATOZ SYSTEMS                         | "ATOZ HOUSE" C-49, SECTOR-81, GAUTAM BUDDH NAGAR, NOIDA – 201 305 U. P. (INDIA)                                                                           | Tel : +91-120-4207920<br>Fax : +91-120-4207921, 4327958<br>Phone:098 10 802710                                                                                                  |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 6      | E05         | UNILEC ENGINEERS PVT. LTD.               | BEHRAMPUR INDUSTRIAL AREA, BEGAMPUR KHATOLA ROAD, GURGAON-122001                                                                                          | 0124-4030247,248, 4559700,<br>9911087173                                                                                                                                        |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 7      | AVA01       | AVAIODS TECHNOVATORS LTD.                | PLOT NO.25 ,SECTOR-3,IMT-MANESAR, GURGEON-122050 ( HARYANA)                                                                                               | KRISHNA KALRA- 09958096168                                                                                                                                                      |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 8      | ACE01       | Adroit Control Engineers Pvt.Ltd.        | M/S ADROIT CONTROL ENGINEERS PVT.LTD. PLOT-3, KRISHNA INDL. AREA, SECTOR-25 FARIDABAD – 121004                                                            | 011-47600700, 0129-4251400                                                                                                                                                      |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 9      | JC01        | JACKSON ENGINEERS                        | A-43, HOSEIRY COMPLEX, OPPOSITE NSEZ, NOIDA-201305                                                                                                        | 0120-4302600, 2568923,27                                                                                                                                                        |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 10     | ADL01       | Adlec Systems Private Limited            | PLOT NO-277, SWARN PARK, UDYOG NAGAR, MUNDKA, MAIN ROHTAK ROAD, UDYOG NAGAR, NEW DELHI, DELHI 110041                                                      | 011 2834 5061                                                                                                                                                                   |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 11     | POP01       | Popular Switchgears Pvt Ltd              | 712, ARUN CHAMBERS, TARDEO MAIN ROAD, TARDEO, NEAR TARDEO AIRCONDITIONER MARKET, MUMBAI - 400034                                                          | -9362634406                                                                                                                                                                     |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 12     | CS01        | CANDS                                    | J/202, ANSA INDUSTRIAL ESTATE, SAKI VIHAR ROAD, SAKINAKA, ANDHERI (EAST), MUMBAI-72                                                                       | 022-28570858                                                                                                                                                                    |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 13     | PYRE01      | Pyrotech Electronics Pvt. Ltd.           | M/s Pyrotech Electronics Pvt. Ltd(Unit -1) Led Light, Sensor Division F-16A, Road No.3 Mewar Industrial Area, Madri Udaipur -313003, Rajasthan,           | Concern Person – Mr. Praveen sisodiya (psisodiya@pyrotechlighting.com)<br>Ankit Kumar<br>Sr. Engineer(North Region -Sales & Marketing)<br># +91- 7340061769, 8287897309         |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 14     | PCS01       | Positronics Pvt. Ltd.                    | POSITRONICS HOUSE ,882/ 2, G.I.D.C. MAKARPURA,VADODARA 390010 GUJARAT                                                                                     | +91 265 2642496<br>Fax: +91 265 264 7033 / 234 0944<br>E- mail :<br>info@positronicsindia.com<br>Website:www.positronicsindia.com                                               |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 15     | ISC01       | Industrial Switchgears & Control Pvt Ltd | S-02 AMARDEEP MAHAL, NANDA PATKAR RD, VILE PARLE EAST, MUMBAI - 400057                                                                                    | (91)-22-26182011                                                                                                                                                                |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 16     | VC01        | M/s Vidhyut Control (I) Pvt.Ltd.         | D-12 & 13, SECTOR-17, KAVI NAGAR INDLAREA, GHAZIABAD – 201002 ( DELHI NCR) U.P. INDIA                                                                     |                                                                                                                                                                                 |         |
|        |           | LIGHTING DISTRIBUTION BOARDS | 17     | MIL01       | MILESTONE SWITCHGEARS PVT. LTD.          | MILESTONE SWITCHGEARS PVT. LTD. 97, UDYOG VIHAR, PHASE-1, GURGEON HARYANA - 122016                                                                        | Phone Nos.: 0124-4994900 (30 Lines)<br>Fax: 0124-4002973<br>Email:<br>jaideep.ahuja@milestonesindia .com<br>URL: www.milestonesindia.com                                        |         |
|        |           | LIGHTING FIXTURES (NON LED)  | 2      | E1206       | BALIGA LIGHTING EQPT PVT LTD             | 63A,CP RAMASWAMY ROAD, PB NO 6910, CHENNAI-600018                                                                                                         | 44-24995505,22680990-4                                                                                                                                                          |         |
|        |           | LIGHTING FIXTURES (NON LED)  | 3      | F04         | ELEXPRO ELECTRICALS PVT/ LTD.            | C 1/27 & 37 GIDC KABILPORE NAVSARI-396424                                                                                                                 | 02637-265140, Mr. Jssk kumar                                                                                                                                                    |         |
|        |           | LIGHTING FIXTURES (NON LED)  | 4      | B05         | BAJAJ ELECTRICALS                        | BAJAJ ELECTRICALS LTD. ENGINEERING & PROJECTS BU (NORTH) 3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049 | CONTACT PERSON : Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. MAIL ID : srbans@bajajelectricals.com;                                             |         |
|        |           | LIGHTING FIXTURES (NON LED)  | 5      | C02         | CROMPTON GREAVES                         | 3RD FLOOR, EXPRESS BUILDING,9-10, BAHADUR SHAH ZAFAR MARG, NEAR ITO CROSSING,NEW DELHI-110002, INDIA                                                      | 91 11 23460700 - 999<br>Sunil.Das@cgglobal.com, Mr. Prashant Wewhare 9930095703                                                                                                 |         |
|        |           | LIGHTING FIXTURES (NON LED)  | 6      | E1051       | EVERGREEN ENGG. CO.                      | EVERGREEN ENGG COMPANY WORKS-5, PLOT NO. 9,10,11,12, SURVEY NO. 242, CHINCH PADA, VASAI EAST-401208                                                       | (0250) 6458250                                                                                                                                                                  |         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION    | SL NO. | VENDOR CODE | VENDOR NAME                                    | ADDRESS                                                                                                                                                   | PHONE                                                                                                                               | REMARKS |
|--------|-----------|-----------------------------|--------|-------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------|
| 39     | ES39      | LIGHTING FIXTURES (NON LED) | 7      | P01         | PHILIPS                                        | 9TH FLOOR,DLF 9B, DLF CYBER CITY, DLF PHASE-III,GURGAON-122002                                                                                            | 01244606001, Sharad (+919871150447)                                                                                                 |         |
|        |           | LIGHTING FIXTURES (NON LED) | 8      | WP01        | WIPRO LTD.                                     | WIPRO CONSUMER CARE AND LIGHTING, 5TH FLOOR, GODREJ ETERNIA -C, OLD PUNE- MUMBAI ROAD, SHIVAJINAGAR, PUNE -411005                                         | 020-66098700                                                                                                                        |         |
|        |           | LIGHTING FIXTURES (NON LED) | 9      | HP01        | M/S HPL ELECTRIC & POWER PVT. LTD              | M/S HPL ELECTRIC & POWER PVT. LTD. PLOT NO. 76-B,PHASE-IV, SEC-57, HSIIDC, INDL. AREA , KUNDLI, DIST- SONEPAT (HARYANA) - 131028                          | mohitsharma@hplindia.com'                                                                                                           |         |
|        |           | LIGHTING FIXTURES (NON LED) | 10     | SR01        | SURYA ROSHNI LIMITED                           | PADMA TOWER, RAJENDRA PLACE, RAJENDRA PLACE NEW DELHI                                                                                                     | 011-25810093 ; 9810071832 (Akhilesh Agrawal ) aagrawal@sroshni.com                                                                  |         |
|        |           | LIGHTING FIXTURES (NON LED) | 11     | HI02        | HAVELLS INDIA LIMITED                          | QRG TOWERS , 2D SECTOR-126, NOIDA- 201301                                                                                                                 | GIRISH KUMAR SHRIVASTAVA +91-9810528922                                                                                             |         |
|        |           | LIGHTING FIXTURES (NON LED) | 12     | HN13        | M/s Halonix Technologies Limited               | M/s Halonix Technologies Limited B-31 , Phase -II, Noida Distt. Gautam Budh Nagar (U.P.) Pin- 201305                                                      | Mr. Mohit Gautam ' 'Tel: +919568152111 'mohit.gautam@halonix.co.in'; 'rahul.singh@halonix.co.in'                                    |         |
| 40     | ES40      | LIGHTING FIXTURES ( LED)    | 1      | NE01        | Neev Luminaries                                | B-6/3 Okhla Industrial Area   Phase-2  New Delhi   110020                                                                                                 | Phone: 011 40604830-31, M:8826995888 Fax: +91 11 4060 4831 info@neevenenergy.in, Jitendra Sahu <jsahu@neevenenergy.com>             |         |
|        |           | LIGHTING FIXTURES ( LED)    | 2      | HI01        | HAVELLS INDIA LIMITED                          | QRG TOWERS , 2D SECTOR-126, NOIDA- 201301                                                                                                                 | GIRISH KUMAR SHRIVASTAVA +91-9810528922, girish.srivastava@havelles.com\                                                            |         |
|        |           | LIGHTING FIXTURES ( LED)    | 3      | B05         | BAJAJ ELECTRICALS                              | BAJAJ ELECTRICALS LTD. ENGINEERING & PROJECTS BU (NORTH) 3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049 | CONTACT PERSON : Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. MAIL ID : srbans@bajajelectricals.com; |         |
|        |           | LIGHTING FIXTURES ( LED)    | 4      | SR01        | SURYA ROSHNI LIMITED                           |                                                                                                                                                           | 011-25810093 ; 9810071832 (Akhilesh Agrawal ) aagrawal@sroshni.com                                                                  |         |
|        |           | LIGHTING FIXTURES ( LED)    | 5      | P01         | PHILIPS                                        | 9TH FLOOR,DLF 9B, DLF CYBER CITY, DLF PHASE-III,GURGAON-122002                                                                                            | 01244606001, Sharad (+919871150447), Mr. Guruseelan M 8939693949, Mr Ashish Sethi 9007077089                                        |         |
|        |           | LIGHTING FIXTURES ( LED)    | 6      | HP01        | M/S HPL ELECTRIC & POWER PVT. LTD              | M/S HPL ELECTRIC & POWER PVT. LTD. PLOT NO. 76-B,PHASE-IV, SEC-57, HSIIDC, INDL. AREA , KUNDLI, DIST- SONEPAT (HARYANA) - 131028                          | mohitsharma@hplindia.com, Mr. Nitesh Verma 8851036938, Mr Ajay lakra 9560045423                                                     |         |
|        |           | LIGHTING FIXTURES ( LED)    | 7      | INS1        | INSTA POWER                                    | PLOT NO. - 457 PHASE - V, UDYOG VIHAR, GURGAON - 122016                                                                                                   | 124-4124000, Mr amit Bhardwar: 8800508090                                                                                           |         |
|        |           | LIGHTING FIXTURES ( LED)    | 8      | PT13        | Pyrotech Electronics Pvt. Ltd.                 | M/s Pyrotech Electronics Pvt. Ltd(Unit -1) Led Light, Sensor Division F-16A, Road No.3 Mewar Industrial Area, Madri Udaipur -313003, Rajasthan,           | Concern Person – Mr. Praveen sisodiya : 9314310042(phisodia@pyrotechlig hting.com) Ms Ritika 9509245814                             |         |
|        |           | LIGHTING FIXTURES ( LED)    | 9      | HN13        | M/s Halonix Technologies Limited               | M/s Halonix Technologies Limited B-31 , Phase -II, Noida Distt. Gautam Budh Nagar (U.P.) Pin- 201305                                                      | Mr. Mohit Gautam ' 'Tel: +919568152111 'mohit.gautam@halonix.co.in'; M: 9891868793'rahul.singh@halonix.co.in'                       |         |
|        |           | LIGHTING FIXTURES ( LED)    | 10     | JA13        | M/s JAQUAR & COMPANY PVT. LTD.                 | M/s JAQUAR & COMPANY PVT. LTD. Plot No.3 , Sector M-11, IMT Manesar. Gurgaon- 122050 Haryana                                                              | Mr. Dhruv Kumar ' 'Tel: +919350043727 dhruv.kumar@jaquar.com ; gaurav.bhalla@jaquar.com : 9582950282                                |         |
|        |           | LIGHTING FIXTURES ( LED)    | 11     | CR13        | M/s CROMPTON GREAVES CONSUMER ELECTRICALS LTD. | M/s CROMPTON GREAVES CONSUMER ELECTRICALS LTD.Tower-3, 1st Floor, East Wing Equinox Business Park LBS Marg, Kurla (West), Mumbai-400070                   | Mr S L Sivakumar 'Sivakumar L' <sivakumar.sl@crompton.co.in> M: 9176609363                                                          |         |
|        |           | LIGHTING FIXTURES ( LED)    | 12     | WI13        | M/s WIPRO ENTERPRISES PRIVATE LTD.             | M/s WIPRO ENTERPRISES PRIVATE LTD. L-8, MIDC Waluj, Aurangabad-431136, Maharashtra, India                                                                 | Ms Dhanya K K 'dhanya.kk8@wipro.com' M 9891815476, Mr Puneet kalia 'puneet.kalia@wipro.com'                                         |         |
|        |           | LIGHTING FIXTURES ( LED)    | 13     | NI13        | M/s Nessa Illumination Technologies Pvt. Ltd.  | M/s Nessa Illumination Technologies Pvt. Ltd.36/A Devraj Industrial Park, Opp. Sameep Fabrics, Pipalaj Pirana Road, Piplaj, Ahmedabad                     | Mr. Dhaval Shah <dhaval@nessa.in> M 9825650354, Mr. Akshat Khare <akshat@nessa.in> M: 9016111723                                    |         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION         | SL NO. | VENDOR CODE | VENDOR NAME                       | ADDRESS                                                                                                                                                   | PHONE                                                                                                                                                          | REMARKS |
|--------|-----------|----------------------------------|--------|-------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|        |           | LIGHTING FIXTURES ( LED)         | 14     | FE13        | M/s. Forus Electric Pvt. Ltd.     | M/s. Forus Electric Pvt. Ltd. B-313, Okhla Industrial Area, Phase-1, New delhi-110020                                                                     | Mr. Amit Bharadwaj <amit.bharadwaj@foruselectric.com> M 8800508090, Mr. Uttam Goyal <uttam@foruselectric.com> M: 8527652687                                    |         |
| 41     | ES41      | LIGHTING FIXTURES ( FLAME PROOF) | 1      | HI01        | HAVELLS INDIA LIMITED             | QRG TOWERS , 2D SECTOR-126, NOIDA- 201301                                                                                                                 | GIRISH KUMAR SHRIVASTAVA +91-9810528922                                                                                                                        |         |
|        |           | LIGHTING FIXTURES ( FLAME PROOF) | 2      | B05         | BAJAJ ELECTRICALS                 | BAJAJ ELECTRICALS LTD. ENGINEERING & PROJECTS BU (NORTH) 3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049 | CONTACT PERSON : Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. MAIL ID : srbans@bajajelectricals.com;                            |         |
|        |           | LIGHTING FIXTURES ( FLAME PROOF) | 3      | E1206       | BALIGA ELECTRICALS                | 63A,CP RAMASWAMY ROAD, PB NO 6910, CHENNAI-600018                                                                                                         | 44-24995505,22680990-4                                                                                                                                         |         |
| 42     | ES42      | LIGHTING LAMP (NON LED)          | 1      | WP01        | WIPRO LTD.                        | WIPRO CONSUMER CARE AND LIGHTING, 5TH FLOOR, GODREJ ETERNIA -C, OLD PUNE-                                                                                 | 020-66098700                                                                                                                                                   |         |
|        |           | LIGHTING LAMP (NON LED)          | 2      | E1050       | ESSEN DEINKI                      | FLAT NO. 502, SKYLINE HOUSE 85, NEHRU PLACE NEW DELHI                                                                                                     | 9818338922                                                                                                                                                     |         |
|        |           | LIGHTING LAMP (NON LED)          | 3      | B05         | BAJAJ ELECTRICALS                 | BAJAJ ELECTRICALS LTD. ENGINEERING & PROJECTS BU (NORTH) 3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049 | CONTACT PERSON : Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. MAIL ID : srbans@bajajelectricals.com;                            |         |
|        |           | LIGHTING LAMP (NON LED)          | 4      | INS1        | INSTA POWER                       | PLOT NO. - 457 PHASE - V, UDYOG VIHAR, GURGAON - 122016                                                                                                   | 124-4124000                                                                                                                                                    |         |
|        |           | LIGHTING LAMP (NON LED)          | 5      | P01         | PHILIPS                           | 9TH FLOOR,DLF 9B, DLF CYBER CITY, DLF PHASE-III,GURGAON-122002                                                                                            | 01244606001, Sharad (+919871150447)                                                                                                                            |         |
|        |           | LIGHTING LAMP (NON LED)          | 6      | HI01        | HAVELLS INDIA LIMITED             | QRG TOWERS , 2D SECTOR-126, NOIDA- 201301                                                                                                                 | GIRISH KUMAR SHRIVASTAVA +91-9810528922                                                                                                                        |         |
|        |           | LIGHTING LAMP (NON LED)          | 7      | HP01        | HPL                               | M/S HPL ELECTRIC & POWER PVT. LTD. PLOT NO. 76-B,PHASE-IV, SEC-57, HSIIDC, INDL AREA , KUNDLI, DIST.- SONEPAT (HARYANA) - 131028                          | mohitsharma@hplindia.com'                                                                                                                                      |         |
|        |           | LIGHTING LAMP (NON LED)          | 8      | SR01        | SURYA ROSHNI LIMITED              | PADMA TOWER, RAJENDRA PLACE, RAJENDRA PLACE NEW DELHI                                                                                                     | 011-25810093 ; 9810071832 (Akhilesh Agrawal ) aagrawal@sroshni.com                                                                                             |         |
| 43     | ES43      | LIGHTING LAMP (NON LED)          | 9      | HN13        | M/s Halonix Technologies Limited  | M/s Halonix Technologies Limited B-31, Phase –II, Noida Distt. Gautam Budh Nagar (U.P.) Pin- 201305                                                       | Mr. Mohit Gautam 'Tel: +919568152111 'mohit.gautam@halonix.co.in'; 'rahul.singh@halonix.co.in'                                                                 |         |
|        |           | LIGHTING LAMP (LED)              | 1      | NE01        | Neev Luminaries                   | D-115 , OKHLA INDUSTRIAL AREA, PHASE-1 NEW DELHI – 110020                                                                                                 | Phone: +91 11 4060 4830 Fax: +91 11 4060 4831 info@neevenergy.in                                                                                               |         |
|        |           | LIGHTING LAMP (LED)              | 2      | HI01        | HAVELLS INDIA LIMITED             | QRG TOWERS , 2D SECTOR-126, NOIDA- 201301                                                                                                                 | GIRISH KUMAR SHRIVASTAVA +91-9810528922                                                                                                                        |         |
|        |           | LIGHTING LAMP (LED)              | 3      | B05         | BAJAJ ELECTRICALS                 | BAJAJ ELECTRICALS LTD. ENGINEERING & PROJECTS BU (NORTH) 3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049 | CONTACT PERSON : Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. MAIL ID : srbans@bajajelectricals.com;                            |         |
|        |           | LIGHTING LAMP (LED)              | 4      | SR01        | SURYA ROSHNI LIMITED              | PADMA TOWER, RAJENDRA PLACE, RAJENDRA PLACE NEW DELHI                                                                                                     | 011-25810093 ; 9810071832 (Akhilesh Agrawal ) aagrawal@sroshni.com                                                                                             |         |
|        |           | LIGHTING LAMP (LED)              | 5      | P01         | PHILIPS                           | 9TH FLOOR,DLF 9B, DLF CYBER CITY, DLF PHASE-III,GURGAON-122002                                                                                            | 01244606001, Sharad (+919871150447)                                                                                                                            |         |
|        |           | LIGHTING LAMP (LED)              | 6      | HP01        | M/S HPL ELECTRIC & POWER PVT. LTD | M/S HPL ELECTRIC & POWER PVT. LTD. PLOT NO. 76-B,PHASE-IV, SEC-57, HSIIDC, INDL AREA , KUNDLI, DIST.- SONEPAT (HARYANA) - 131028                          | mohitsharma@hplindia.com                                                                                                                                       |         |
|        |           | LIGHTING LAMP (LED)              | 7      | INS1        | INSTA POWER                       | PLOT NO. - 457 PHASE - V, UDYOG VIHAR, GURGAON - 122016                                                                                                   | 124-4124000                                                                                                                                                    |         |
|        |           | LIGHTING LAMP (LED)              | 8      | PT13        | Pyrotech Electronics Pvt. Ltd.    | M/s Pyrotech Electronics Pvt. Ltd(Unit -1) Led Light, Sensor Division F-16A, Road No.3 Mewar Industrial Area, Madri Udaipur -313003, Rajasthan,           | Concern Person – Mr. Praveen sisodiya (psisodiya@pyrotechlighting.com) Ankit Kumar Sr. Engineer(North Region -Sales & Marketing) # +91- 7340061769, 8287897309 |         |
|        |           | LIGHTING LAMP (LED)              | 9      | HN13        | M/s Halonix Technologies Limited  | M/s Halonix Technologies Limited B-31, Phase –II, Noida Distt. Gautam Budh Nagar (U.P.) Pin- 201305                                                       | Mr. Mohit Gautam 'Tel: +919568152111 'mohit.gautam@halonix.co.in'; 'rahul.singh@halonix.co.in'                                                                 |         |
|        |           | LIGHTING POLES                   | 1      | E1033       | BOMBAY TUBE & POLES CO.           | BOMBAY TUBES & POLES CO. 2ND LANE, DARUKHANA, PLOT NO. 100, MAZGAON, MUMBAI - 10                                                                          | Tel. : +91 22 23729802, email ID: btpc1954@hotmail.com                                                                                                         |         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION                    | SL NO. | VENDOR CODE | VENDOR NAME                     | ADDRESS                                                                                                                                                                                                                                             | PHONE                                                                                                                                                                                                     | REMARKS |
|--------|-----------|---------------------------------------------|--------|-------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 44     | ES44      | LIGHTING POLES                              | 2      | E1118       | RIDHDHI POLES                   | 4/5 INDUSTRIAL ESTATE, GORWA, VADODRA-390016                                                                                                                                                                                                        | 0265 - 2283768                                                                                                                                                                                            |         |
|        |           | LIGHTING POLES                              | 3      | MK01        | MIKA ENGINEERS                  | BRANCH OFFICE :<br>'D'-101, DHEERAJ HERITAGE RESIDENCY II, SHASTRI NAGAR, SANTACRUZ (W), MUMBAI 400 054.<br>WORKS :<br>AT POST AGHAI, SHED NO. 2, VILLAGE AGHAI JILLA, SHAHPUR, DIST. THANE 421 601<br>TEL : 02527-249066/70<br>CELL : 099230 74373 | <b>Director :</b><br>Mr. Asgar Karimi<br>Email:<br>asgar@mikaengineers.com;mika@mtnl.net.in<br>Telfax : 022-26610081/82/83/84<br>Tel : 02527-249066/70<br>Cell : 099230 74373                             |         |
|        |           | LIGHTING POLES                              | 4      | K02         | KL INDUSTRIES                   | B1 1001 LOK GAURAV, LBS MARG, VIKHROLI WEST, MUMBAI - 400083                                                                                                                                                                                        | (91)-9821013736<br>(91)-22-25774272                                                                                                                                                                       |         |
|        |           | LIGHTING POLES                              | 5      | B05         | BAJAJ ELECTRICALS               | BAJAJ ELECTRICALS LTD.<br>ENGINEERING & PROJECTS BU (NORTH)<br>3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049                                                                                     | CONTACT PERSON : Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705.<br>MAIL ID : srbans@bajajelectricals.com;                                                                    |         |
|        |           | LIGHTING POLES                              | 6      | TL01        | TLL                             | M/S TRANSRAIL LIGHTING LIMITED (TLL), GAMMON INDIA LIMITED<br>2ND FLOOR , CENTRIC PLAZA, PLOT NO.8 POCKET-4, SECTOR-11 DWARKA , NEW DELHI -110075                                                                                                   | hemant.jain@transrailtld.com'                                                                                                                                                                             |         |
| 45     | ES45      | LIGHTING SWITCH , SOCKET & S/F UNIT         | 1      | F04         | ELEXPRO ELECTRICALS PVT/ LTD.   | C 1/27 & 37 GIDC KABILPORE NAVSARI-396424                                                                                                                                                                                                           | 02637-265140, Mr. Jssk kumar                                                                                                                                                                              |         |
|        |           | LIGHTING SWITCH , SOCKET & S/F UNIT         | 2      | E1012       | ANCHOR                          | STEEL HOUSE, B WING, PLOT NO. 24, MAHAL INDUSTRIAL ESTATE, MAHAKALI CAVES ROAD, NEAR PAPER BOX, ANDHERI (E), MUMBAI, MAHARASHTRA - 400093                                                                                                           | 022-30418888.                                                                                                                                                                                             |         |
|        |           | LIGHTING SWITCH , SOCKET & S/F UNIT         | 3      | E1076       | KAYCEE                          | KAYCEE INDUSTRIES LTD., C/O-CMS COMPUTERS LTD., 35A, REAR BLDG., KILOKARI, NEW DELHI-110014                                                                                                                                                         | Rajiv Sharma-9312004687                                                                                                                                                                                   |         |
|        |           | LIGHTING SWITCH , SOCKET & S/F UNIT         | 4      | L01         | L&T                             | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                                                                                                                                                                  | 011-41419554/59                                                                                                                                                                                           |         |
|        |           | LIGHTING SWITCH , SOCKET & S/F UNIT         | 5      | S01         | SIEMENS                         | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                                                                                                                                                         | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com                                                                                                                                                    |         |
|        |           | LIGHTING SWITCH , SOCKET & S/F UNIT         | 6      | E1068       | INDO ASIAN                      | B-24, PHASE - II , NOIDA - 201305, U.P.                                                                                                                                                                                                             | 120-3042222                                                                                                                                                                                               |         |
| 46     | ES46      | LIGHTING TRANSFORMER                        | 1      | E1021       | AUTOMATIC ELECTRIC LTD.         | ADDRESS : 96 AB LONAVLA INDUSTRIAL ESTATE NANGARGAON, LONAVLA-410401                                                                                                                                                                                | Phone : +91 2114323665<br>Fax : +91 2114273482                                                                                                                                                            |         |
|        |           | LIGHTING TRANSFORMER                        | 2      | E1066       | INDCOIL                         | PLOT NO. A- 150/ 151, 23RD U ROAD, WAGLE ESTATE, THANE WEST, CST RD, FRIENDS COLONY, HALLOW PUL, KURLA WEST, MUMBAI, MAHARASHTRA 400070                                                                                                             | Phone:022 2583 8305                                                                                                                                                                                       |         |
|        |           | LIGHTING TRANSFORMER                        | 3      | E1103       | POWER PACK ENTERPRISES          | POWER PACK ENTERPRISES<br>MR. NEHAL SHAH / MR. SHARAD SHAH (PARTNER)<br>NO. 3, JAYSHREE SADAN, 1ST FLOOR, OLD NAGARDAS ROAD, ANDHERI EAST MUMBAI - 400069, MAHARASHTRA, INDIA                                                                       | Call Us:08447573761<br>Mobile: +(91)-9821787821<br>+(91)-9821035604                                                                                                                                       |         |
|        |           | LIGHTING TRANSFORMER                        | 4      | E1155       | VIJAY ELECTRICALS LTD.          | 6-3-648/1&2, OFF RAJ BHAVAN ROAD, SOMAJIGUDA, HYDERABAD - 500 082. ANDHRA PRADESH, INDIA.                                                                                                                                                           | Vijay Electricals<br>Mr. Bharat Giri / Ajay Giri (CEO)<br>B 79, Gali No. 60, Sanjay Colony, Sector- 23<br>Faridabad - 121005, Haryana, India<br>Call Us:<br>09953353612<br>websales@vijajaelectricals.com |         |
|        |           | LIGHTING TRANSFORMER                        | 5      | E1057       | GILBERT & MAXWELL               | WORKS PLOT G-28 , M.I.D.C., AMBAD NASHIK - 422010, MAHARASHTRA, INDIA                                                                                                                                                                               | Mr. Sanjeev Kulkarni, (Marketing Manager)   Cell: 9822586724<br>sanjeevkulkarni@gilbert-maxwell.in<br>Phone : + 91 - 253 - 238 25 51<br>Fax : + 91 - 253 - 238 25 52                                      |         |
|        |           | LIGHTING TRANSFORMER                        | 6      | K18         | KAPPA ELECTRICALS               | KAPPA ELECTRICALS,<br>KAPPA CONSOLIDATED PVT. LTD., SOUTHERN ELECTRIKS<br>14, CART TRACK ROAD, MADUVANKARAI, CHENNAI - 600 042, INDIA.                                                                                                              | PHONE: +91 - 44 - 22454709,<br>22454516, 22450794, 22450795<br>FAX: +91 - 44 - 22351662,<br>22451693<br>E-MAIL: mira@kappaelectricals.com<br>sales@kappaelectricals.com                                   |         |
|        |           | LIGHTING TRANSFORMER                        | 7      | AIE01       | Ames Impex Electricals Pvt. Ltd | C-1B/1207, PHASE IV, GIDC NARODA, AHMEDABAD, GUJARAT 382330                                                                                                                                                                                         | Phone:079 2282 1648                                                                                                                                                                                       |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 8      | A35         | GE-POWER                        | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032                                                                                                                                                 | 044-49681447                                                                                                                                                                                              |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 9      | E1019       | ASIATIC                         | A-58 NARAINA IND. AREA, PHASE-I , NEW DELHI 110028                                                                                                                                                                                                  | 011 - 25796330, 25796617                                                                                                                                                                                  |         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION                    | SL NO. | VENDOR CODE | VENDOR NAME                        | ADDRESS                                                                                                               | PHONE                                                                                                                                                             | REMARKS |
|--------|-----------|---------------------------------------------|--------|-------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 47     | ES47      | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 10     | C01         | C&S ELECTRIC LTD.                  | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                                      | 011 - 25793021                                                                                                                                                    |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 11     | E1051       | EVERGREEN ENGG. CO.                | EVERGREEN ENGG COMPANY WORKS-5, PLOT NO. 9,10,11,12, SURVEY NO. 242, CHINCH PADA, VASAI EAST-401208                   | (0250) 6458250                                                                                                                                                    |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 12     | E1143       | TECKNIC CONTROLS                   | 703, MADHAVA, BANDRA, KURLA COMPLEX, BANDRA EAST, MUMBAI, MAHARASHTRA 400051                                          | 022-42532507/00<br>022-24451648                                                                                                                                   |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 13     | E1053       | EX-PROTECTA LIGHTING EQUIPMENT     | 305-306, GIDC ESTATE, VITHAL UDYOGNAGAR - 388121 DIST. ANAND, GUJARAT 388121 INDIA                                    | 02692-237823                                                                                                                                                      |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 14     | E1206       | BALIGA ELECTRICALS                 | 63A,CP RAMASWAMY ROAD, PB NO 6910, CHENNAI-600018                                                                     | 44-24995505,22680990-4                                                                                                                                            |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 15     | E1210       | ENPRO ENGG.                        | NO.995P, DIAMOND PLAZA, 2ND FLOOR, 12TH MAIN ROAD, ANNA NAGAR, CHENNAI-40                                             | 044 – 42611526 / 42170338 / 26262716<br>enproengg@enproengineering.com                                                                                            |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 16     | E1132       | STERLING SWGR CONTROL PVT.LTD.     | P.O. BOX NO. 17023, SORAB HOUSE, 2ND FLOOR, 555, S.B. MARG, DADAR, MUMBAI - 400028, MAHARASHTRA, INDIA                | 91-22-24222297/24222298/24224236                                                                                                                                  |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 17     | F04         | ELEXPRO ELECTRICALS PVT/ LTD.      | C 1/27 & 37 GIDC KABILPORE NAVSARI-396424                                                                             | 02637-265140, Mr. Jssk kumar                                                                                                                                      |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 18     | E1153       | VAISHNO(HOTLINE SWGR & CONTROL)    | G-19, SECTOR - 11, NOIDA - 201301, UTTAR PRADESH, INDIA                                                               | 8377805157<br>9818338922                                                                                                                                          |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 19     | J01         | JASPER ENGINEERS PVT. LTD.         | A-23, SECTOR - 8, NOIDA-201301                                                                                        | 0120-4033520/533                                                                                                                                                  |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 20     | KM1         | KMG ATOZ SYSTEMS                   | C-49, SECTOR-81-NOIDA-201305                                                                                          | 120-4207920, 08527897328                                                                                                                                          |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 21     | E05         | UNILEC ENGINEERS PVT. LTD.         | BEHRAMPUR INDUSTRIAL AREA, BEGAMPUR KHATOLA ROAD, GURGAON-122001                                                      | 0124-4030247,248, 4559700, 9911087173                                                                                                                             |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 22     | B04         | BCH                                | 20/4, MATHURA ROAD, FARIDABAD, HARYANA-121006                                                                         | 0129-4293000                                                                                                                                                      |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 23     | E1035       | CANDS                              | J/202, ANSA INDUSTRIAL ESTATE, SAKI VIHAR ROAD, SAKINAKA, ANDHERI (EAST), MUMBAI-72                                   | 022-28570858                                                                                                                                                      |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 24     | S01         | SIEMENS                            | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                           | 0124-2842000, 9873424331<br>amit.bhadoria@siemens.com                                                                                                             |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 25     | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD. | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                               | 0124-3940400                                                                                                                                                      |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 26     | E1143       | TECKNIC CONTROLS                   | 703, MADHAVA, BANDRA, KURLA COMPLEX, BANDRA EAST, MUMBAI, MAHARASHTRA 400051                                          | 022-42532507/00<br>022-24451648                                                                                                                                   |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 27     | E1148       | UNITED ELECTRIC                    | 97 UDYOG VIHAR PHASE-I, GURGAON 122015, HARYANA                                                                       | 124 4002970 72                                                                                                                                                    |         |
|        |           | LOCAL PUSH BUTTON STATION (NON FLAME PROOF) | 28     | SRC01       | M/s Shrenik & Co.                  | 39A/3, PANCHRATNA INDUSTRIAL ESTATE, SARKHEJ-BAVLA ROAD, CHANGODAR, AHMEDABAD – 382 213                               |                                                                                                                                                                   |         |
| 48     | ES48      | LOCAL PUSH BUTTON STATION (FLAME PROOF)     |        |             |                                    |                                                                                                                       |                                                                                                                                                                   |         |
| 49     | ES49      | LIGHTING PANEL ( FLAME PROOF)               | 1      | E1206       | BALIGA ELECTRICALS                 | 63A,CP RAMASWAMY ROAD, PB NO 6910, CHENNAI-600018                                                                     | 44-24995505,22680990-4                                                                                                                                            |         |
|        |           | LIGHTING PANEL ( FLAME PROOF)               | 2      | SS01        | SUDHIR SWITCHGEAR                  | 305/6, APEEJAY HOUSE, 130, BOMBAY SAMACHAR MARG, MUMBAI - 400 023. INDIA                                              | Telephone Nos. : 40460000 (100 lines)<br>Fax Nos. : ++91-22-22049381<br>Email :<br>md@sudhirsswitchgears.com ;<br>works@sudhirsswitchgears.com ;<br>scud@vsnl.com |         |
|        |           | LIGHTING PANEL (NON FLAME PROOF)            | 1      | E1091       | MIKA ENGINEERS                     | D'-101, DHEERAJ HERITAGE RESIDENCY II, SHASTRI NAGAR, SANTACRUZ (W), MUMBAI 400 054.                                  | Director :<br>Mr. Asgar Karimi<br>E-mail : mika@mtnl.net.inTelfax :<br>022-26610081/82/83/84Tel :<br>02527-249066/70<br>Cell : 099230                             |         |
|        |           | LIGHTING PANEL (NON FLAME PROOF)            | 2      | F04         | ELEXPRO ELECTRICALS PVT/ LTD.      | C 1/27 & 37 GIDC KABILPORE NAVSARI-396424                                                                             | 02637-265140, Mr. Jssk kumar                                                                                                                                      |         |
|        |           | LIGHTING PANEL (NON FLAME PROOF)            | 3      | VC01        | Vidhyut Controls (India) Pvt. Ltd. | M/S VIDHYUT CONTROL (I) PVT.LTD. D-12 & 13, SECTOR-17,KAVI NAGAR INDL.AREA,GHAZIABAD – 201002 ( DELHI NCR) U.P. INDIA | 0120-4186400, 0120-4186423, 8527005590(DK GUPTA)                                                                                                                  |         |
|        |           | LIGHTING PANEL (NON FLAME PROOF)            | 4      | KM1         | KMG ATOZ SYSTEMS                   | "ATOZ HOUSE" C-49, SECTOR-81, GAUTAM BUDDH NAGAR, NOIDA – 201 305 U. P. (INDIA)                                       | Tel : +91-120-4207920<br>Fax : +91-120-4207921, 4327958<br>Phone:098 10 802710                                                                                    |         |
|        |           | LIGHTING PANEL (NON FLAME PROOF)            | 5      | E05         | UNILEC ENGINEERS PVT. LTD.         | BEHRAMPUR INDUSTRIAL AREA, BEGAMPUR KHATOLA ROAD, GURGAON-122001                                                      | 0124-4030247,248, 4559700, 9911087173                                                                                                                             |         |
|        |           | LIGHTING PANEL (NON FLAME PROOF)            | 6      | AVA01       | AVAIODS TECHNOVATORS LTD.          | PLOT NO.25 ,SECTOR-3,IMT-MANESAR, GURGEON-122050 ( HARYANA)                                                           | KRISHNA KALRA- 09958096168                                                                                                                                        |         |
|        |           | LIGHTING PANEL (NON FLAME PROOF)            | 7      | ACE01       | Adroit Control Engineers Pvt.Ltd.  | M/S ADROIT CONTROL ENGINEERS PVT.LTD. PLOT-3, KRISHNA INDL. AREA, SECTOR-25 FARIDABAD – 121004                        | 011-47600700, 0129-4251400                                                                                                                                        |         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION         | SL NO. | VENDOR CODE | VENDOR NAME                                 | ADDRESS                                                                                                                                         | PHONE                                                                                                                                                                 | REMARKS             |
|--------|-----------|----------------------------------|--------|-------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 50     | ES50      | LIGHTING PANEL (NON FLAME PROOF) | 8      | JC01        | JACKSON ENGINEERS                           | A-43, HOSEIRY COMPLEX, OPPOSITE NSEZ, NOIDA-201305                                                                                              | 0120-4302600, 2568923,27                                                                                                                                              |                     |
|        |           | LIGHTING PANEL (NON FLAME PROOF) | 9      | MIL01       | MILESTONE SWITCHGEARS PVT. LTD.             | MILESTONE SWITCHGEARS PVT. LTD. 97, UDYOG VIHAR, PHASE-1, GURGEON HARYANA - 122016                                                              | Phone Nos.: 0124-4994900 (30 Lines)<br>Fax: 0124-4002973<br>Email: jaideep.ahuja@milestonesindia.com<br>URL: www.milestonesindia.com                                  |                     |
|        |           | LIGHTING PANEL (NON FLAME PROOF) | 10     | PCS01       | Positronics Pvt. Ltd.                       | POSITRONICS HOUSE ,882/ 2, G.I.D.C. MAKARPURA,VADODARA 390010 GUJARAT                                                                           | +91 265 2642496<br>Fax: +91 265 264 7033 / 234 0944<br>E-mail : info@positronicsindia.com<br>Website:www.positronicsindia.com                                         |                     |
|        |           | LIGHTING PANEL (NON FLAME PROOF) | 11     | PYRE01      | Pyrotech Electronics Pvt. Ltd.              | M/s Pyrotech Electronics Pvt. Ltd(Unit -1) Led Light, Sensor Division F-16A, Road No.3 Mewar Industrial Area, Madri Udaipur -313003, Rajasthan, | Concern Person – Mr. Praveen sisodiya (psisodiya@pyrotechlighting.com)<br>Ankit Kumar Sr. Engineer(North Region - Sales & Marketing)<br># +91- 7340061769, 8287897309 |                     |
| 51     | ES51      | MCB                              | 1      | E1088       | MDS SWITCHGEAR LTD                          | 314-317SHAH NAHAR ESTATE                                                                                                                        | 011 - 25793021                                                                                                                                                        |                     |
|        |           | MCB                              | 2      | E1068       | INDO ASIAN                                  | B-24, PHASE - II , NOIDA - 201305, U.P.                                                                                                         | 120-3042222                                                                                                                                                           |                     |
|        |           | MCB                              | 3      | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.          | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                                         | 0124-3940400                                                                                                                                                          |                     |
|        |           | MCB                              | 4      | E1120       | S&S POWER SWITCHGEAR LTD,                   | NEW NO. 67, OLD NO. 19, DR. RANGA ROAD, MYLAPORE, CHENNAI - 600004                                                                              | 044 - 24988056, 044 - 24988057, 044 - 24988058                                                                                                                        |                     |
| 52     | ES52      | MCC (FIXED TYPE)                 | 1      | S02         | SPACEAGE SWITCHGEARS LTD.                   | 68 & 13-A INDUSTRIAL DEVELOPMENT COLONY, MEHRAULI ROAD GURGAON, HARYANA-122001                                                                  | 0124-2302711, 4085091                                                                                                                                                 |                     |
|        |           | MCC (FIXED TYPE)                 | 2      | A01         | ASSOCIATED SWGR & PROJ.LTD.                 | C-10, UPSIDC, INDUSTRIAL AREA, SITE-IV, KASNA ROAD, GREATER NOIDA-201306                                                                        | 0120-4294618,19,20<br>Asplho@gmail.com                                                                                                                                |                     |
|        |           | MCC (FIXED TYPE)                 | 3      | B04         | BCH                                         | 20/4, MATHURA ROAD, FARIDABAD, HARYANA-121006                                                                                                   | 0129-4293000                                                                                                                                                          |                     |
| 53     | ES53      | LV MOTORS (NON FLAME PROOF)      | 1      | A24         | ABB                                         | 14, MATHURA ROAD, FARIDABAD, HARYANA-121003                                                                                                     | 0129-2567580, 09871799449                                                                                                                                             |                     |
|        |           | LV MOTORS (NON FLAME PROOF)      | 2      | E1027       | BHARAT BULEE LTD.                           | BHARAT BULEE LIMITED, 1ST FLOOR, 7-B, RAJINDRA PARK, PUSA ROAD, NEW DELHI - 110 060.                                                            | Tel.: + 91 (11) 25816931-33, 35 & 36  DT: +91 25724318<br>Fax: + 91 (11) 25819640  M:+ 91                                                                             |                     |
|        |           | LV MOTORS (NON FLAME PROOF)      | 3      | C02         | CROMPTON GREAVES                            | 3RD FLOOR, EXPRESS BUILDING,9-10, BAHADUR SHAH ZAFAR MARG, NEAR ITO CROSSING,NEW DELHI-110002, INDIA                                            | 91 11 23460700 - 999<br>Sunil.Das@cgglobal.com                                                                                                                        |                     |
|        |           | LV MOTORS (NON FLAME PROOF)      | 4      | A35         | GE-POWER                                    | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032                                             | 044-49681447                                                                                                                                                          |                     |
|        |           | LV MOTORS (NON FLAME PROOF)      | 5      | K01         | KIRLOSKAR ELECTRIC CO LTD.                  | P.O. BOX 5555 , MALLESWARAM WEST ,BANGALORE 560055                                                                                              | Tel: +91-80-23374865 Fax: +91-80-23377706                                                                                                                             |                     |
|        |           | LV MOTORS (NON FLAME PROOF)      | 6      | L04         | LAXMI HYDRAULICS PVT. LTD                   | 129/130, INDUSTRIAL ESTATE PATIL NAGAR, HOTGI ROAD SOLAPUR-413003, MAHARASHTRA                                                                  | 0217- 2357001-005                                                                                                                                                     | APPROVED UPTO 200KW |
|        |           | LV MOTORS (NON FLAME PROOF)      | 7      | M01         | MARATHON                                    | MARATHON ELECTRIC INDIA PRIVATE LTD.SECTOR - 11, MODEL TOWN, FARIDABAD - 121006                                                                 | Ph: +91-129-2286421, 2265340, 4006601 to 4006610                                                                                                                      |                     |
|        |           | LV MOTORS (NON FLAME PROOF)      | 8      | A35         | NGEF                                        | POCKET NO.10, FLAT NO. 37 & 38, EXPANDABLE DDA FLATS, NASIRPUR DWARKA, PHASE-I NEW                                                              | Ph: (011) 2539 7763                                                                                                                                                   |                     |
|        |           | LV MOTORS (NON FLAME PROOF)      | 9      | E1115       | RAJINDRA ELECT INDUSTRIES                   | 14 SHAH IND.ESTATE VEERA DESAI RD,ANDHERI(W) MUMBAI-400053                                                                                      | 91-22-26730823, 26730789; 91)-(22)-26730154                                                                                                                           |                     |
|        |           | LV MOTORS (NON FLAME PROOF)      | 10     | S01         | SIEMENS                                     | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                                                     | 0124-2842000, 9873424331<br>amit.bhadoria@siemens.com                                                                                                                 |                     |
| 54     | ES54      | LV MOTORS (FLAME PROOF)          | 1      | E1115       | RAJINDRA ELECT INDUSTRIES                   | 14 SHAH IND.ESTATE VEERA DESAI RD,ANDHERI(W) MUMBAI-400053                                                                                      | 91-22-26730823, 26730789; 91)-(22)-26730154                                                                                                                           |                     |
| 55     | ES55      | MODULAR SWITCH BOARD             | 1      | E1012       | ANCHOR                                      | STEEL HOUSE, B WING, PLOT NO. 24, MAHAL INDUSTRIAL ESTATE, MAHAKALI CAVES ROAD, NEAR PAPER BOX, ANDHERI (E), MUMBAI, MAHARASHTRA- 400093        | 022-30418888.                                                                                                                                                         |                     |
|        |           | MODULAR SWITCH BOARD             | 2      | F04         | ELEXPRO ELECTRICALS PVT/ LTD.               | C 1/27 & 37 GIDC KABILPORE NAVSARI-396424                                                                                                       | 02637-265140, Mr. Jssk kumar                                                                                                                                          |                     |
|        |           | MODULAR SWITCH BOARD             | 3      | HI01        | HAVELLS INDIA LIMITED                       | QRG TOWERS , 2D SECTOR-126, NOIDA- 201301                                                                                                       | GIRISH KUMAR SHRIVASTAVA +91-9810528922                                                                                                                               |                     |
| 56     | ES56      | OIL TEMP INDICATOR               | 1      | E1101       | PERFECT CONTROLS                            | BLOCK NO. 7, NORTH ROAD, WEST C.I.T. NAGAR,CHENNAI - 600035, INDIA.                                                                             | Phone: (91-44) 24341043, 24330387, 42867651<br>Fax: (91-44) 24345075                                                                                                  |                     |
|        |           | OIL TEMP INDICATOR               | 2      | E1105       | PRECIMEASURE                                | M/S. PRECIMEASURE CONTROLS PVT. LTD. 168/C, INDUSTRIAL SUBURB, PEENYA 3RD PHASE, BANGALORE - 560058. KARNATAKA, INDIA                           | Phone EPABX: +91-80-42602702.<br>Fax: +91-80-41552205<br>E-mail: info@precimeasure.com                                                                                |                     |
|        |           | PROTECTION - RELAYS (PNUEMATIC)  | 1      | S01         | SIEMENS                                     | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                                                     | 0124-2842000, 9873424331<br>amit.bhadoria@siemens.com                                                                                                                 |                     |
|        |           | PROTECTION - RELAYS (PNUEMATIC)  | 2      | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.          | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                                         | 0124-3940400                                                                                                                                                          |                     |
|        |           | PROTECTION - RELAYS (PNUEMATIC)  | 3      | A35         | GE-MULTILINE, GE INDIA INDUSTRIAL PVT. LTD. | NO. 90- B, ELECTRONICS CITY, HOSUR ROAD, BENGALURU - 560016, KARNATAKA                                                                          | (080) 41314617, 9945478935                                                                                                                                            |                     |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION        | SL NO. | VENDOR CODE | VENDOR NAME                                 | ADDRESS                                                                                                                                                   | PHONE                                                                                                                                | REMARKS |
|--------|-----------|---------------------------------|--------|-------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 57     | ES57      | PROTECTION - RELAYS (PNUEMATIC) | 4      | SC01        | SCHWEITZER ENGG. LAB (SEL)                  | 406, BHIKAJI CAMA BHAVAN, BHIKAJI CAMA PLACE, BHIKAJI CAMA PLACE, MOHAMMADPUR, RK PURAM, NEW DELHI, DL 110066                                             | 011 4152 7899                                                                                                                        |         |
|        |           | PROTECTION - RELAYS (PNUEMATIC) | 5      | C01         | C&S ELECTRIC LTD.                           | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                                                                          | 011-3088 7520-29                                                                                                                     |         |
|        |           | PROTECTION - RELAYS (PNUEMATIC) | 6      | G01         | ALSTOM LTD                                  | A-7, SEC-65, NOIDA                                                                                                                                        | 0120-479 0000                                                                                                                        |         |
|        |           | PROTECTION - RELAYS (PNUEMATIC) | 7      | A24         | ABB                                         | 14, MATHURA ROAD, FARIDABAD, HARYANA-121003                                                                                                               | 0129-2567580, 09871799449                                                                                                            |         |
|        |           | PROTECTION - RELAYS (PNUEMATIC) | 8      | C01         | AVK-SEG & CONTROLS(I) LTD                   | C-60,NOIDA PHASE-II                                                                                                                                       | 6918834-37                                                                                                                           |         |
| 58     | ES58      | PROTECTION - RELAYS (NUMERICAL) | 1      | S01         | SIEMENS                                     | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                                                               | 0124-2842000, 9873424331<br>amit.bhadoria@siemens.com                                                                                |         |
|        |           | PROTECTION - RELAYS (NUMERICAL) | 2      | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.          | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                                                   | 0124-3940400                                                                                                                         |         |
|        |           | PROTECTION - RELAYS (NUMERICAL) | 3      | A35         | GE-MULTILINE, GE INDIA INDUSTRIAL PVT. LTD. | NO. 90- B, ELECTRONICS CITY, HOSUR ROAD, BENGALURU - 560016, KARNATAKA                                                                                    | (080) 41314617,<br>9945478935                                                                                                        |         |
|        |           | PROTECTION - RELAYS (NUMERICAL) | 4      | SC01        | SCHWEITZER ENGG. LAB (SEL)                  | 406, BHIKAJI CAMA BHAVAN, BHIKAJI CAMA PLACE, BHIKAJI CAMA PLACE, MOHAMMADPUR, RK PURAM, NEW DELHI, DL 110066                                             | 011 4152 7899                                                                                                                        |         |
| 59     | ES59      | RECEPTACLES - DECORATIVE        | 1      | E1012       | ANCHOR                                      | STEEL HOUSE, B WING, PLOT NO. 24, MAHAL INDUSTRIAL ESTATE, MAHAKALI CAVES ROAD, NEAR PAPER BOX, ANDHERI (E), MUMBAI, MAHARASHTRA.- 400093                 | 022-30418888.                                                                                                                        |         |
|        |           | RECEPTACLES - DECORATIVE        | 2      | F04         | ELEXPRO ELECTRICALS PVT/ LTD.               | C 1/27 & 37 GIDC KABILPORE NAVSARI-396424                                                                                                                 | 02637-265140, Mr. Jssk kumar                                                                                                         |         |
|        |           | RECEPTACLES - DECORATIVE        | 3      | B05         | BAJAJ ELECTRICALS                           | BAJAJ ELECTRICALS LTD. ENGINEERING & PROJECTS BU (NORTH) 3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049 | CONTACT PERSON : Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. MAIL ID : srabans@bajajelectricals.com; |         |
|        |           | RECEPTACLES - DECORATIVE        | 4      | A03         | AJMERA INDUSTRIES & ENGG. WORKS             | AJMERA INDL. AND ENGG. WORKS. AJMERA HOUSE, A-61 / KHAIRANE MIDC. , TTC INDL. AREA, NAVI MUMBAI – 400705.                                                 | Tel : 022 27620299 / 97 / 96 'mail@ajmera.net                                                                                        |         |
| 60     | ES60      | RESISTOR FOR DC STARTERS        | 1      | B04         | BCH                                         | 20/4, MATHURA ROAD, FARIDABAD, HARYANA-121006                                                                                                             | 0129-4293000                                                                                                                         |         |
|        |           | RESISTOR FOR DC STARTERS        | 2      | C01         | C&S ELECTRIC LTD.                           | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                                                                          | 011-3088 7520-29                                                                                                                     |         |
|        |           | RESISTOR FOR DC STARTERS        | 3      | E1119       | RSI                                         | 60,IND.DEV.COLONY, MEHRAULI ROAD, GURGAON-122001                                                                                                          | 91 - 124 - 2333442                                                                                                                   |         |
|        |           | RESISTOR FOR DC STARTERS        | 4      | S04         | SPEED-O-CONTROL                             | C-16, NAND JYOT INDUSTRIAL ESTATE, SAFED POOL, ANDHERI-KURLA ROAD, SAFED POOL, MAGAN NATHURAM RD, SHIVAJI NAGAR, SAKINAKA, MUMBAI, MAHARASHTRA 400072     | 022 2851 8514                                                                                                                        |         |
|        |           | RESISTOR FOR DC STARTERS        | 5      | E1137       | SUSHIL ENGG CORP.                           | D-7, GHATKOPAR INDUSTRIAL ESTATE, OFF LBS MARG, GHATKOPAR (WEST), AMRUT NAGAR RD, AMRUT NAGAR, GHATKOPAR WEST, MUMBAI, MAHARASHTRA 400086                 | 022 2500 7976                                                                                                                        |         |
| 61     | ES61      | SWITCH BOX                      | 1      | E1012       | ANCHOR                                      | STEEL HOUSE, B WING, PLOT NO. 24, MAHAL INDUSTRIAL ESTATE, MAHAKALI CAVES ROAD, NEAR PAPER BOX, ANDHERI (E), MUMBAI, MAHARASHTRA.- 400093                 | 022-30418888.                                                                                                                        |         |
|        |           | SWITCH BOX                      | 2      | F04         | ELEXPRO ELECTRICALS PVT/ LTD.               | C 1/27 & 37 GIDC KABILPORE NAVSARI-396424                                                                                                                 | 02637-265140, Mr. Jssk kumar                                                                                                         |         |
|        |           | SWITCH BOX                      | 3      | B05         | BAJAJ ELECTRICALS                           | BAJAJ ELECTRICALS LTD. ENGINEERING & PROJECTS BU (NORTH) 3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049 | CONTACT PERSON : Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. MAIL ID : srabans@bajajelectricals.com; |         |
|        |           | SWITCH BOX                      | 4      | A03         | AJMERA INDUSTRIES & ENGG. WORKS             | AJMERA INDL. AND ENGG. WORKS. AJMERA HOUSE, A-61 / KHAIRANE MIDC. , TTC INDL. AREA, NAVI MUMBAI – 400705.                                                 | Tel : 022 27620299 / 97 / 96 'mail@ajmera.net                                                                                        |         |
|        |           | SWITCH BOX                      | 5      | SB02        | S.B. ELECTRICAL ENGINEERING CORPORATION     | 03, SARDAR GRIHA BUILDING, LOHAR CHAWAL, MUMBAI-400002                                                                                                    | 022- 22069831; 022-66637259                                                                                                          |         |
|        |           | TERMINAL BLOCKS                 | 1      | C01         | WAGO-CONTROLS                               | C 27, GREATER NOIDA, SECTOR 58, C BLOCK, SECTOR 58, NOIDA, UTTAR PRADESH 201307                                                                           | 0120-2580409/10                                                                                                                      |         |
|        |           | TERMINAL BLOCKS                 | 2      | E1038       | CONNECT WELL                                | 309A/4, 3RD FLOOR, KALKAJI, OKHLA IND AREA PH-2, GOVINDPURI, NEW DELHI, DL 110019                                                                         | 9811881085<br>09871419996<br>011-65908877                                                                                            |         |
|        |           | TERMINAL BLOCKS                 | 3      | E1047       | ELMEX CONTROLS PVT. LTD.                    | 12,G.I.D.C.ESTATE,MUKARPURA ROAD,VADODARA-390010                                                                                                          | 9374631074                                                                                                                           |         |
|        |           | TERMINAL BLOCKS                 | 4      | E1050       | ESSEN DEINKI                                | FLAT NO. 502, SKYLINE HOUSE 85, NEHRU PLACE NEW DELHI                                                                                                     | 011-26217060                                                                                                                         |         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION                                          | SL NO. | VENDOR CODE | VENDOR NAME                                        | ADDRESS                                                                                                                                                                 | PHONE                                                                                                                                                                                                          | REMARKS                 |
|--------|-----------|-------------------------------------------------------------------|--------|-------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 62     | ES62      | TERMINAL BLOCKS                                                   | 5      | E1142       | TECHNOPLAST                                        | OPP.I.M.INTER COLLEGE, BEGUM SARAI KHURD ROAD, AMROHA - 244221, U.P.                                                                                                    | PH:- 05922 264006<br>CELL NO:- 9012676000,<br>9319520799, 9319582467                                                                                                                                           |                         |
|        |           | TERMINAL BLOCKS                                                   | 6      | PME-01      | M/s PHOENIX MECANO LTD.,                           | 388 BHARE, TALUKA MULSHI, POST GHOTAWADE, PIRANGOOT, INDUSTRIAL AREA, PUNE-412115                                                                                       | TEL:- +912066745000<br>Awasthi(09971119006)<br>Tel: ++91 20 6674 5103, Mobile: +91 90499 95985, Fax: ++91 20 6674 5126 contact person : Vishwa bandhu<br>E-mail:d.gupta@pmpl-online.com ;admin@pmpl-online.com |                         |
|        |           | TERMINAL BLOCKS                                                   | 7      | E1050       | ESSEN DEINKI                                       | FLAT NO. 502, SKYLINE HOUSE 85, NEHRU PLACE NEW DELHI                                                                                                                   | 011-26217060                                                                                                                                                                                                   |                         |
| 63     | ES63      | TIMERS - PNEUMATIC                                                | 1      | B04         | BCH                                                | 20/4, MATHURA ROAD, FARIDABAD, HARYANA-121006                                                                                                                           | 0129-4293000                                                                                                                                                                                                   |                         |
|        |           | TIMERS - PNEUMATIC                                                | 2      | G01         | ALSTOM LTD                                         | A-7, SEC-65, NOIDA                                                                                                                                                      | 0120-479 0000                                                                                                                                                                                                  |                         |
|        |           | TIMERS - PNEUMATIC                                                | 3      | L01         | L&T                                                | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                                                                                      | 011-41419554/59                                                                                                                                                                                                |                         |
|        |           | TIMERS - PNEUMATIC                                                | 4      | E1144       | TELEMECHANIQUE/ SCHNEIDER ELECTRIC INDIA PVT. LTD. | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                                                                 | 0124-3940400                                                                                                                                                                                                   | TAKEN OVER BY SCHNEIDER |
|        |           | TIMERS - PNEUMATIC                                                | 5      | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.                 | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                                                                 | 0124-3940400                                                                                                                                                                                                   |                         |
|        |           | TIMERS - PNEUMATIC                                                | 6      | E01         | ELECTRONIC AUTOMATION PVT. LTD.                    | 20, KHB INDUSTRIAL AREA YELAHANKA BANGLORE-560064                                                                                                                       | 080 -28567561 / 080 -28567562 / 080 -42802345                                                                                                                                                                  |                         |
| 64     | ES64      | TIMERS - ELECTRONIC                                               | 1      | E1050       | ESSEN DEINKI                                       | FLAT NO. 502, SKYLINE HOUSE 85, NEHRU PLACE NEW DELHI                                                                                                                   | 011-26217060                                                                                                                                                                                                   |                         |
| 65     | ES65      | TRANSDUCERS                                                       | 1      | E1021       | AUTOMATIC ELECTRIC LTD.                            | ADDRESS : 96 AB LONAVLA INDUSTRIAL ESTATE NANGARGAON, LONAVLA-410401                                                                                                    | Phone : +91 2114323665<br>Fax : +91 2114273482                                                                                                                                                                 |                         |
|        |           | TRANSDUCERS                                                       | 2      | E1202       | SOUTHERN TRANSDUCERS                               | INTERTECH B-83, FLATTED FACTORY COMPLEX, NEAR MODI MILLS, OKHLA, NEW DELHI-110020                                                                                       | Mr. Gurmohit Singh 011-41020365 / 9891402128                                                                                                                                                                   |                         |
| 66     | ES66      | WINDING TEMP INDICATOR                                            | 1      | E1101       | PERFECT CONTROLS                                   | OFFICE ADDRESS: 7, NORTH ROAD,WEST C.I.T. NAGAR,CHENNAI - 600035, INDIA.                                                                                                | Phone: (91-44) 24341043, 24330387, 42867651;Fax: (91-44) 24345075                                                                                                                                              |                         |
|        |           | WINDING TEMP INDICATOR                                            | 2      | E1105       | PRECIMEASURE                                       | M/S. PRECIMEASURE CONTROLS PVT. LTD. 168/C, INDUSTRIAL SUBURB, PEENYA 3RD PHASE, BANGALORE - 560058. KARNATAKA, INDIA                                                   | Phone EPABX: +91-80-42602702. Fax: +91-80-41552205 E-mail: info@precimeasure.com                                                                                                                               |                         |
| 67     | ES67      | RECEPTACLE (FLAME PROOF)                                          | 1      | E1206       | BALIGA ELECTRICALS                                 | 63A,CP RAMASWAMY ROAD, PB NO 6910, CHENNAI-600018                                                                                                                       | 44-24995505,22680990-4                                                                                                                                                                                         |                         |
|        |           | RECEPTACLE (FLAME PROOF)                                          | 2      | S501        | SUDHIR SWITCHGEAR                                  | 305/6, APEEJAY HOUSE, 130, BOMBAY SAMACHAR MARG, MUMBAI - 400 023. INDIA                                                                                                | Telephone Nos. : 40460000 (100 lines)<br>Fax Nos. : ++91-22-22049381<br>Email : md@sudhirswitchgears.com ; works@sudhirswitchgears.com ; scud@vsnl.com                                                         |                         |
|        |           | RECEPTACLE (FLAME PROOF)                                          | 3      | FFP01       | FCG FLAME PROOF CONTROL GEAR                       | A1/53, SHAH & NAHAR INDUSTRIAL ESTATE, SITARAM JADHAV ROAD, LOWER PAREL (W), MUMBAI-400 013                                                                             | Mr. N. G. Patel<br>CMD Office No: +91-22-43443200<br>Fax No: +91-22-24960313                                                                                                                                   |                         |
| 68     | ES68      | RECEPTACLE (NON FLAME PROOF)                                      | 1      | A03         | AJMERIA INDUSTRIES & ENGG. WORKS                   | AJMERIA INDL AND ENGG. WORKS. AJMERIA HOUSE, A-61 / KHAIRANE MIDC. , TTC INDL. AREA, NAVI MUMBAI – 400705.                                                              | Tel : 022 27620299 / 97 / 96<br>'mail@ajmeria.net                                                                                                                                                              |                         |
|        |           | RECEPTACLE (NON FLAME PROOF)                                      | 2      | C02         | CROMPTON GREAVES                                   | 3RD FLOOR, EXPRESS BUILDING,9-10, BAHADUR SHAH ZAFAR MARG, NEAR ITO CROSSING,NEW DELHI-110002, INDIA                                                                    | 91 11 23460700 - 999<br>'Sunil.Das@cgglobal.com                                                                                                                                                                |                         |
|        |           | RECEPTACLE (NON FLAME PROOF)                                      | 3      | E1207       | CYCLO ELECTRIC DEVICE & SERV.CO.                   | : A-3, NEAR ANTHEM BIOSCIENCE, KSSIDC INDUSTRIAL AREA, BOMMASANDRA, BOMMASANDRA INDUSTRIAL AREA, BANGALORE, KARNATAKA 560099                                            | Mr. H.Jaishanker +919845039081, 080 - 27833102, 080 - 27833103 : +91 80 41460985<br>'cycloelectric@gmail.com                                                                                                   |                         |
|        |           | RECEPTACLE (NON FLAME PROOF)                                      | 4      | B04         | BCH                                                | 20/4, MATHURA ROAD, FARIDABAD - 121006, HARYANA, INDIA                                                                                                                  | 0(129)-4063000, 9015800189(Ramesh Giri)<br>'ramesh.giri@bchindia.com                                                                                                                                           |                         |
|        |           | RECEPTACLE (NON FLAME PROOF)                                      | 5      | B02         | BEST & CROMPTON                                    | BEST & CROMPTON ENGINEERING LTD 28C, AMBATTUR INDUSTRIAL ESTATE (NORTH) AMBATTUR, CHENNAI - 600 098                                                                     | Ph : +91 44 4551 4724 , MRKT DGM Mr. VI Raj:- 9840593411<br>'bestcromptonviraj@gmail.com                                                                                                                       |                         |
| 69     | ES69      | EMERGENCY LIGHTING UNIT ( FIXED & PORTABLE TYPE)- NON FLAME PROOF | 1      | B05         | BAJAJ ELECTRICALS                                  | BAJAJ ELECTRICALS LTD. ENGINEERING & PROJECTS BU (NORTH) 3rd FLOOR, GULMOHARHOUSE, COMMUNITY CENTRE 161/B-4, GAUTAM NAGAR, YUSUF SARAI NEW DELHI – 110049               | CONTACT PERSON : Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. MAIL ID : srbans@bajajelectricals.com                                                                             |                         |
|        |           | EMERGENCY LIGHTING UNIT ( FIXED & PORTABLE TYPE)- NON FLAME PROOF | 2      | PEP05       | PROLITE AUTOGLO LIMITED,                           | PROLITE AUTOGLO LTD 25 SINGH INDUSTRIAL ESTATE NO. 3, RAM MANDIR ROAD., GOREGAON (W), MUMBAI, MAHARASHTRA 400104, INDIA                                                 | 022-67868100<br>sales@prolite.com                                                                                                                                                                              |                         |
| 70     | ES70      | EMERGENCY LIGHTING UNIT ( FIXED & PORTABLE TYPE)- FLAME PROOF     | 1      |             |                                                    |                                                                                                                                                                         |                                                                                                                                                                                                                |                         |
|        |           | 24V SUPPLY MODULE WITH COMPLETE ACCESSORIES                       | 1      | E1103       | POWER PACK ENTERPRISES                             | POWER PACK ENTERPRISES MR. NEHAL SHAH / MR. SHARAD SHAH (PARTNER) NO. 3, JAYSHREE SADAN, 1ST FLOOR, OLD NAGARDAS ROAD, ANDHERI EAST MUMBAI - 400069, MAHARASHTRA, INDIA | Call Us:08447573761<br>Mobile: +(91)-9821787821<br>+(91)-9821035604                                                                                                                                            |                         |



| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION                    | SL NO. | VENDOR CODE | VENDOR NAME                                                    | ADDRESS                                                                                                                                           | PHONE                                                                                                                                         | REMARKS                 |
|--------|-----------|---------------------------------------------|--------|-------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 71     | ES71      | 24V SUPPLY MODULE WITH COMPLETE ACCESSORIES | 2      | E1066       | INDCOIL                                                        | ADDRESS: PLOT NO. A- 150/ 151, 23RD U ROAD, WAGLE ESTATE, THANE WEST, CST RD, FRIENDS COLONY, HALLOW PUL, KURLA WEST, MUMBAI, MAHARASHTRA 400070  | Phone:022 2583 8305                                                                                                                           |                         |
|        |           | 24V SUPPLY MODULE WITH COMPLETE ACCESSORIES | 3      | AIE01       | Ames Impex Electricals Pvt. Ltd                                | C-1B/1207, PHASE IV, GIDC NARODA, AHMEDABAD, GUJARAT 382330                                                                                       | Phone:079 2282 1648                                                                                                                           |                         |
| 72     | ES72      | ENERGY METER ( ANALOG)                      | 1      | B07         | BHEL (EDN)                                                     | MYSORE ROAD,BANGALORE-560026                                                                                                                      | 080-26998500                                                                                                                                  |                         |
|        |           | ENERGY METER ( ANALOG)                      | 2      | E1129       | SIMCO ENGG. LTD                                                | NO. 126, K ROAD, TIRUCHIRAPPALLI -620001, TAMIL NADU                                                                                              | Mr. Madaswamy Muthu<br>+(91)-(431)-4046223<br>+(91)-(431)-4046210<br>+(91)-9786600915                                                         |                         |
|        |           | ENERGY METER ( ANALOG)                      | 3      | R01         | RISHABH INST.PVT LTD                                           | RISHABH INSTRUMENTS PVT. LTD.<br>F-31, MIDC, SATPUR<br>NASHIK - 422007<br>MAHARASHTRA INDIA                                                       | <a href="mailto:marketing@rishabh.co.in">marketing@rishabh.co.in</a><br>91-253 2202202/203 Fax: 91 253 2351064                                |                         |
|        |           | ENERGY METER ( ANALOG)                      | 4      | E1009       | AUTOMATIC ELECTRIC LTD.                                        | 96 AB LONAVLA INDUSTRIAL ESTATE<br>NANGARGAON, LONAVLA-410401                                                                                     | Phone : +91 2114323665<br>Fax : +91 2114273482                                                                                                |                         |
|        |           | ENERGY METER ( ANALOG)                      | 5      | CON1        | CONZERVE SYSTEMS PVT. LTD.(SCHNEIDER)                          | 87, 1ST FLOOR INDUSTRIAL DEVELOPMENT COLONY (IDC) MEHRAULI ROAD, UGURGAON 122001 HARYANA, INDIA.                                                  | 4268899, 9910695701                                                                                                                           |                         |
| 73     | ES73      | ENERGY METER ( DIGITAL)                     | 1      | CON1        | CONZERVE SYSTEMS PVT. LTD.(SCHNEIDER)                          | 87, 1ST FLOOR INDUSTRIAL DEVELOPMENT COLONY (IDC) MEHRAULI ROAD, UGURGAON 122001 HARYANA, INDIA.                                                  | 4268899, 9910695701                                                                                                                           |                         |
|        |           | ENERGY METER ( DIGITAL)                     | 2      | NK09        | M/s Newtek Electricals                                         | M-90, M.I.D.C, Waluj, Aurangabad 431136, Maharashtra, India                                                                                       | Tel/Fax: +91 240 2551555<br>E-mail:<br>mkt.north@newtekelectricals.com,<br>sales@newtekelectricals.com<br>Mr Sanjeev Aggarwal<br>(9958897890) |                         |
| 74     | ES74      | AMMETER                                     | 1      | E1009       | AUTOMATIC ELECTRIC LTD.                                        | 96 AB LONAVLA INDUSTRIAL ESTATE<br>NANGARGAON, LONAVLA-410401                                                                                     | Phone : +91 2114323665<br>Fax : +91 2114273482                                                                                                |                         |
|        |           | AMMETER                                     | 2      | R01         | RISHABH INST.PVT LTD                                           | RISHABH INSTRUMENTS PVT. LTD.<br>F-31, MIDC, SATPUR<br>NASHIK - 422007<br>MAHARASHTRA INDIA                                                       | <a href="mailto:marketing@rishabh.co.in">marketing@rishabh.co.in</a><br>91-253 2202202/203 Fax: 91 253 2351064                                |                         |
|        |           | AMMETER                                     | 3      | NK09        | M/s Newtek Electricals                                         | M-90, M.I.D.C, Waluj, Aurangabad 431136, Maharashtra, India                                                                                       | Tel/Fax: +91 240 2551555<br>E-mail:<br>mkt.north@newtekelectricals.com,<br>sales@newtekelectricals.com<br>Mr Sanjeev Aggarwal<br>(9958897890) |                         |
| 75     | ES75      | VOLTMETER                                   | 1      | E1009       | AUTOMATIC ELECTRIC LTD.                                        | 96 AB LONAVLA INDUSTRIAL ESTATE<br>NANGARGAON, LONAVLA-410401                                                                                     | Phone : +91 2114323665<br>Fax : +91 2114273482                                                                                                |                         |
|        |           |                                             | 2      | R01         | RISHABH INST.PVT LTD                                           | RISHABH INSTRUMENTS PVT. LTD.<br>F-31, MIDC, SATPUR<br>NASHIK - 422007<br>MAHARASHTRA INDIA                                                       | <a href="mailto:marketing@rishabh.co.in">marketing@rishabh.co.in</a><br>91-253 2202202/203 Fax: 91 253 2351064                                |                         |
|        |           | VOLTMETER                                   | 3      | NK09        | M/s Newtek Electricals                                         | M-90, M.I.D.C, Waluj, Aurangabad 431136, Maharashtra, India                                                                                       | Tel/Fax: +91 240 2551555<br>E-mail:<br>mkt.north@newtekelectricals.com,<br>sales@newtekelectricals.com<br>Mr Sanjeev Aggarwal<br>(9958897890) |                         |
| 76     | ES76      | MPCB                                        | 1      | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.                             | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                                           | 0124-3940400                                                                                                                                  |                         |
|        |           | MPCB                                        | 2      | L01         | L&T                                                            | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                                                                | 011-41419554/59                                                                                                                               |                         |
|        |           | MPCB                                        | 3      | S01         | SIEMENS                                                        | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                                                       | 0124-2842000, 9873424331<br>amit.bhaduria@siemens.com                                                                                         |                         |
|        |           | MPCB                                        | 4      | A35         | GE-POWER                                                       | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032                                               | 044-49681447                                                                                                                                  |                         |
|        |           | MPCB                                        | 5      | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.                             | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                                           | 0124-3940400                                                                                                                                  |                         |
|        |           | MPCB                                        | 6      | C01         | C&S ELECTRIC LTD.                                              | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                                                                  | 011-3088 7520-29                                                                                                                              |                         |
| 77     | ES77      | MAGNETIC OIL GAUGE                          | 1      | E1134       | SUKRUT UDYOG                                                   | 9/1/A, ERANDAWANE, OPPOSITE MEHENDALE GARAGE, ERANDAWANE, GULAWANI MAHARAJ RD, SWAROOP SOCIETY, VAKIL NAGAR, ERANDAWANE, PUNE, MAHARASHTRA 411004 | 020 2544 1726                                                                                                                                 |                         |
| 78     | ES78      | MULTIFUNCTION METER                         | 1      | CON1        | CONZERVE SYSTEMS PVT. LTD./ SCHNEIDER ELECTRIC INDIA PVT. LTD. | 87, 1ST FLOOR INDUSTRIAL DEVELOPMENT COLONY (IDC) MEHRAULI ROAD, GURGAON 122001 HARYANA, INDIA.                                                   | 4268899, 9910695701                                                                                                                           | TAKEN OVER BY SCHNEIDER |
|        |           | MULTIFUNCTION METER                         | 2      | NK09        | M/s Newtek Electricals                                         | M-90, M.I.D.C, Waluj, Aurangabad 431136, Maharashtra, India                                                                                       | Tel/Fax: +91 240 2551555<br>E-mail:<br>mkt.north@newtekelectricals.com,<br>sales@newtekelectricals.com<br>Mr Sanjeev Aggarwal<br>(9958897890) |                         |

| Sr.No. | ITEM CODE | ITEM/SERVICE DESCRIPTION                         | SL NO.            | VENDOR CODE | VENDOR NAME                                 | ADDRESS                                                                                                                                                                                                                         | PHONE                                                                                                                                                                      | REMARKS                                                       |
|--------|-----------|--------------------------------------------------|-------------------|-------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 79     | ES79      | RCCB                                             | 1                 | C01         | C&S ELECTRIC LTD.                           | 222, OKHLA IND. ESTATE, PH-III, NEW DELHI-110020                                                                                                                                                                                | 011-3088 7520-29                                                                                                                                                           |                                                               |
|        |           | RCCB                                             | 2                 | S03         | SCHNEIDER ELECTRIC INDIA PVT. LTD.          | 9TH FLOOR, BLDG. NO. 10, TOWER-C, DLF CYBER CITY, PH-II, GURGAON-122002                                                                                                                                                         | 0124-3940400                                                                                                                                                               |                                                               |
|        |           | RCCB                                             | 3                 | S01         | SIEMENS                                     | RC-IN I S NR DEL AREA, JIL BUILDING, TOWER-B, PLOT NO. 78, SECTOR 18, GURGAON-122015, INDIA                                                                                                                                     | 0124-2842000, 9873424331<br>amit.bhadauria@siemens.com                                                                                                                     |                                                               |
|        |           | RCCB                                             | 4                 | A35         | GE-POWER                                    | KAMAK TOWER, 3RD FLOOR, PLOT NO. 12-A, TVK INDUSTRIAL ESTATE, EKKADUTHANGAL, GUINDY, CHENNAI-600032                                                                                                                             | 044-49681447                                                                                                                                                               |                                                               |
|        |           | RCCB                                             | 5                 | L01         | L&T                                         | 32, SHIVAJI MARG, P.O. BOX- 6223, NEW DELHI-110015                                                                                                                                                                              | 011-41419554/59                                                                                                                                                            |                                                               |
|        |           | RCCB                                             | 6                 | C02         | CROMPTON GREAVES                            | RAIL TRANSPORTATION SYSTEMS,VANDANA BUILDING, 11, TOLSTOY MARG, TOLSTOY MARG, NEW DELHI, DL 110001                                                                                                                              | 011 3041 6300                                                                                                                                                              |                                                               |
| 80     | ES80      | PVC WIRES                                        | BIS APPROVED MAKE |             |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                               |
| 81     | ES81      | PEDESTAL FAN & CEILING FAN                       | REPUTED MAKE      |             |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                               |
| 82     | ES82      | EXIT SIGN (FLAME PROOF)                          | REPUTED MAKE      |             |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                               |
| 83     | ES83      | EXIT SIGN (NON FLAME PROOF)                      | REPUTED MAKE      |             |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                               |
| 84     | ES84      | LADDER                                           | REPUTED MAKE      |             |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                               |
| 85     | ES85      | HUME PIPE                                        | REPUTED MAKE      |             |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                               |
| 86     | ES86      | PHOTOELECTRIC SWITCH                             | REPUTED MAKE      |             |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                               |
| 87     | ES87      | DICHORIC SPOT LIGHTING FIXTURE                   | REPUTED MAKE      |             |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                               |
| 88     | ES88      | HAND LAMP UNIT                                   | REPUTED MAKE      |             |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                               |
| 89     | ES89      | LIGHTING DESIGNER                                | 1                 | AT13        | AVAIDS TECHNOVATORS PVT. LTD.               | 4A/58, SHANKAR ROAD, NEW DELHI-110060                                                                                                                                                                                           | Mr. Rajendra Panda M: 9910481854 (email: rajendra@avaids.com)                                                                                                              |                                                               |
|        |           | LIGHTING DESIGNER                                | 2                 | BE13        | BAJAJ ELECTRICALS LTD.                      | 801 (8th floor), Rustomjee Aspire, Bhanu Shankar Yagnik Marg, Off Eastern Express Highway Sion (E), Mumbai 400022                                                                                                               | Mr. S. SREEMANY. SR. MANAGER (PROJECTS) CONTACT DETAILS : (+91) 9871025705. (email: srbans@bajajelectricals.com)                                                           |                                                               |
|        |           | LIGHTING DESIGNER                                | 3                 | KS13        | KELSATEK SOLUTIONS PVT. LTD.                | 50/1 4TH FLOOR, CHURCH STREET, BANGALORE-560001                                                                                                                                                                                 | Mr. S S Mudaliar Sr. VP M: 6380471362 (email: mudaliar@kelsatek.com)                                                                                                       |                                                               |
|        |           | LIGHTING DESIGNER                                | 4                 | SE13        | M/s SUMANAM ENGINEERING SERVICES CONSULTANT | 1, ADITHYA, KOWDIAR, TRIVANDRUM 695003                                                                                                                                                                                          | Mr. Anshad S Phone: 471-2437588, (email: shaw@sumanam.org)                                                                                                                 |                                                               |
|        |           | LIGHTING DESIGNER                                | 5                 | SM13        | SPAN MANUFACTURING COMPANY LTD              | 27 First Floor, Bhiku Building, Murari Ghag Marg, Prabhadevi, Mumbai-400025                                                                                                                                                     | Ms Surbhi Jindal M: 9811026321 (email: spanmanufacturing@gmail.com, info@dalighthub.com)                                                                                   | Lighting System designer only for FGD, R&M and Hydro projects |
|        |           | LIGHTING DESIGNER                                | 6                 | CL13        | CITELUM INDIA PVT. LTD                      | Y-14A, GREEN PARK MAIN, NEW DELHI-110016                                                                                                                                                                                        | Mr. Satyabrata Meher M: 8155001095, (email: smeher@citelum.in)                                                                                                             | Lighting System designer only for FGD, R&M and Hydro projects |
|        |           | LIGHTING DESIGNER                                | 7                 | SR13        | M/s SURYA ROSHNI LTD                        | Padma Tower 1, Rajendra Place, New Delhi-110008                                                                                                                                                                                 | Mr. Saurabh Gupta 9999433167, (email: saurabh.gupta@surya.in), AKHILESH AGRAWAL (aagrawal@surya.in)                                                                        |                                                               |
|        |           | LIGHTING DESIGNER                                | 8                 | HP13        | M/s HPL ELECTRIC & POWER PVT. LTD.          | WINDSOR BUSINESS PARK, B-1D, SECTOR-10 NOIDA-201301 (UP)                                                                                                                                                                        | Name : Mr. Mahesh Sharma Designation: Sr. GM (HOD Projects) Email : msharma@hplindia.com Contact : 9818282236 Ashwani Kumar Mob-9971127370 Email: ashwani@hplindia.com     |                                                               |
| 90     | ES90      | VAF METER ( DIGITAL)                             | 1                 | NK09        | M/s Newtek Electricals                      | M-90, M.I.D.C, Waluj, Aurangabad 431136, Maharashtra, India                                                                                                                                                                     | Tel/Fax: +91 240 2551555 E-mail: mkt.north@newtekelectricals.com, sales@newtekelectricals.com Mr Sanjeev Aggarwal (9958897890)                                             |                                                               |
|        |           | LED BASED HIGH INTENSITY AVIATION WARNING LIGHTS | 1                 | INS1        | M/s INSTA POWER LIMITED                     | Correspondence Address: M/s Insta Power Limited, S-19, Panch Shila Park, New-Delhi-110017 Manufacturing Unit: M/s Insta Power Limited, Khasra No. 103M, Raipur Industrial Area, Raipur, Bhagwanpur, Roorkee, Uttarakhand 247661 | Manu Thakur (electrical1@instapower.com) Deepak Gupta (deepak.gupta@instapower.com) Abhijit R Vaish (abhijit.ra@instapower.com) Satyajit R Vaish (satyajit@instapower.com) |                                                               |
| 91     | ES91      |                                                  |                   |             |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                               |

NOTE: Make of all the equipment / instrument under this specification shall be subjected to owner's approval in the event of order. Owner reserves the right to accept/ reject any make or sub-vendor and to add new sub-vendors for the project after award of contract. Approval, rejection or addition of makes shall not have any price implication to the owner after award of contract.

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**TECHNICAL SPECIFICATION FOR  
OCTAGONAL GALVANIZED POLES**

SPECIFICATION NO. PE-TS-444-558-E004

VOLUME II

SECTION II

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**SECTION-II****GENERAL REQUIREMENTS**



## TECHNICAL SPECIFICATION FOR OCTAGONAL GALVANIZED POLES

SPECIFICATION NO. PE-TS-444-558-E004

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### 1.0 INTENT OF SPECIFICATION

- 1.1 The requirement of this specification shall be fully complied with.
- 1.2 The “design” shall broadly cover the selection of components, materials, sizes etc. for the equipment of supply in vendor’s scope. Complete responsibility of establishing the correctness of equipment design rests with the vendor.
- 1.3 It is not the intent to specify here all the details of design and manufacture. However, the equipment shall conform in all respects to high standards of design, engineering and workmanship, and shall be capable of performing the required duties in a manner acceptable to Engineer / purchaser, who will interpret the meaning of drawings and specifications and shall be entitled to reject any work or material, which in his judgement is not in full accordance herewith.
- 1.4 Make of all equipment and components shall be as per sub vendor list (Section I) and subjected to the approval of BHEL/BHEL’s customer without any commercial implication.

### 2.0 CODES & STANDARDS

- 2.1 The material shall comply with all currently applicable safety codes and statutory regulations of India as well of the locality where the material is to be installed.
- 2.2 The material, construction, manufacture, inspection and testing shall conform to the latest revisions of standards as specified in Datasheet-A.
- 2.3 In case of conflict between the applicable reference standard and this specification, stringent requirement shall govern.

### 3 DESIGN REQUIREMENTS

#### 3.1 LIGHTING POLES

- 3.1.1 Lighting poles as required for street lighting and flood lighting shall be of swaged/stepped tubular steel of swan neck construction as per applicable standard.
- 3.1.2 Where painted type of poles is specified (to be done at vendor’s works);
  - a) The poles shall be coated with black bituminous paint, conforming to applicable standard, throughout on the inside surface and on the outside surface up to the level which is embedded in ground.
  - b) Exposed outside surface shall be painted with two coats of red oxide and zinc chromate in synthetic compound primer.
  - c) Final painting shall be done at site after installation. Same is not in vendor's scope.
- 3.1.3 Where galvanization of poles is specified;
  - a) All inside and outside surfaces of the pole and base plate shall be hot dip galvanised as per manufacturer’s practice.
  - b) Base plate shall be galvanised after welding to the pole base.
  - c) Weight and thickness of zinc coating shall be as per Datasheet-A.



## TECHNICAL SPECIFICATION FOR OCTAGONAL GALVANIZED POLES

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- 3.1.4 Each street lighting pole shall be supplied with necessary pipe-reducer / fixing-bracket for fixing the luminaire.
- 3.1.5 Each street lighting pole shall be suitably provided with weather proof, galvanised steel junction box and two numbers fixing brackets suiting the diameter of the pole. The requirements of junction box are stipulated elsewhere. The fixing brackets shall be supplied loose.
- 3.1.6 Street lighting pole shall be provided with wiring hole. The location shall be coordinated with mounting position of street lighting pole JB. The diameter of hole shall be 20 mm. The hole shall be provided with a rubber / PVC grommet.
- 3.1.7 Flood lighting pole shall be provided with painted MS plate and shall be suitable for the number of flood lighting luminaires and controlgear boxes.
- 3.1.8 Provision for earthing shall be provided for flood / street lighting poles at a height 1 metre above the ground (MS flat size shall be informed during detailed engineering). The pole shall be earthed at two points.
- 3.1.9 Types of Lighting Poles

Exact type and designation of lighting pole is as given in Data Sheet A. Basic types are as follows:

- a) PS1 - Street Lighting Pole for one luminaire with 1200mm bracket arm.
- b) PS2 - Street Lighting Pole for one luminaire with 1800mm bracket arm.
- c) PS4 - Street Lighting Pole for two luminaires with 1800mm bracket arm each.
- d) PF1 - Flood Lighting Pole for one luminaire.
- e) PF2 - Flood Lighting Pole for two luminaires.

Details of luminaire shall be provided during detailed engineering.

### 3.2 POLE JUNCTION BOXES JB(S)

- 3.2.1 Junction boxes with terminals shall be supplied for branching and terminating lighting wires/cables.
- 3.2.2 Construction Features
  - (a) The junction boxes shall be fabricated out of material specified in Datasheet-A and shall be of rectangular shape. The cover shall be hinged or bolted with captive nuts and bolts and shall be provided with neoprene gasket lining all over.
  - (b) The junction boxes shall be provided with suitable knock outs/ gland plates for conduit/ cable connection. The conduit connection shall be properly sealed. The junction boxes meant for cable connection shall be complete with removable gland plates, glands and cable lugs, as required. The junction boxes shall be provided with two earthing terminals suitable for 14SWG GI earthing wires.



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- (c) The junction boxes shall be weather proof type conforming to IP-55 of IS:2147. Junction boxes for street light poles and lighting/lightning masts shall be provided with hinged doors and allen keys with bolts as locking arrangement.
- (d) The boxes and cover shall be hot dip galvanised.
- (e) The junction boxes shall be suitable for mounting on lighting poles, mast etc. The brackets, bolts, nuts, screws and any other erection accessories required for erection shall be provided along with the junction box.

### 3.2.3 Terminals

- (a) Multiway terminal blocks of approved type and make complete with galvanised screws, nuts, washers and marking strips shall be furnished for terminating the lighting wires.
- (b) All the terminals blocks shall be of 650V grade one piece construction with insulating barriers. These terminals shall be made of copper alloy and shall be stud type. Each terminal provided on junction box shall be suitable for terminating two numbers of aluminium conductors of the size as specified without any damage to the conductors or looseness.

### 3.2.4 The junction boxes shall be of following types:

| Type | Description                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JB-S | Provided with four (4) way stud type terminals, each terminal suitable for terminating upto two nos. of 3.5Cx50 mm <sup>2</sup> stranded aluminium conductors & with one no.6A HRC fuse and link.          |
| JB-M | Provided with four (4) way stud type terminals, each terminal suitable for terminating upto two nos. of 4Cx16 mm <sup>2</sup> stranded aluminium conductors & tap off of 3 nos. 2C x 2.5 sq. mm. Cu cable. |

### 3.3 CABLE GLANDS

- 3.3.1 Whether specifically mentioned or not, cable glands of suitable sizes shall be supplied along with each equipment for power and control cables.
- 3.3.2 Rubber components used in the gland shall be of neoprene.
- 3.3.3 Name / trade name of manufacturer, type no. and applicable range of outer diameter of cable shall be engraved / indelibly printed on the cable gland.

### 3.4 CABLE LUGS

- 3.4.1 All equipment shall be supplied with the power and control cable lugs of suitable size, whether specifically mentioned or not.
- 3.4.2 Name / trade name and size of lug shall be engraved/ indelibly printed on each cable lug.

### 3.5 TIMERS

#### 3.5.1 Time Switch

- (a) Time switch shall be suitable for automatic switching ON and OFF of street lighting / flood lighting circuits.
- b) Time switch have 00 - 24 hrs clock base.



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- c) Time switch shall indicate actual time and shall permit accurate time setting.
- d) Time switch shall be rugged, independent of normal fluctuations of voltage / frequency and free from maintenance.
- e) Contact rating, clock accuracy, rated voltage rating and frequency rating of timer shall be suitable to its application.
- f) Time switch shall be provided with Ni-Cd battery.
- g) Time switch shall be suitable for mounting inside the panel.

### 3.5.2 On Delay Timer

- (a) Timer shall be fully static and suitable for operation on normal frequency and system voltage.
- (b) Timer shall have high setting accuracy, high repeat accuracy, low reset time and low power consumption.
- (c) Timer shall have the time setting range of 24 - 240 seconds, unless mentioned otherwise in Data Sheet A.
- (d) Timer shall be suitable for mounting inside the panel.

### 3.6 CIRCUIT DIAGRAM / DIRECTORY PLATE

- 3.6.1 A diagram is to be prepared for fixing to the inside cover of every mast feeder panel giving details of the points controlled by each circuit.

### 4.12 SURFACE TREATMENT FOR PANEL

- 4.12.1 All metal parts and the surfaces (exterior & interior) of equipment shall be degreased by dipping in hot alkaline solution and rubbed with wire brush to remove oil & scale from them & then rinsed in water. Alternatively, they may be shot / sand blasted.
- 4.12.2 Parts shall be pickled by dipping in hydrochloric acid tank to remove the rust from the surfaces formed during storage of sheets & then rinsed to remove traces of the acid. The cleaning and pretreatment of all metal parts shall be as per applicable standard.
- 4.12.3 The surfaces to be painted shall then be prepared by phosphatizing to protect them from further rusting & to create a good bond with the paint. The pretreatment shall conform to the applicable standard.
- 4.12.4 All parts shall then be subjected to a coat of red oxide primer paint.
- 4.12.5 All inside and outside surfaces of panel shall be spray painted with synthetic enamel of the shade as per Data Sheet A.
- 4.12.6 Electrostatic or powder coating painting shall be done as specified in Data Sheet A.
- 4.12.7 Wherever possible, finished parts shall be coated with peelable compound by spraying method to protect the finished product from scratches, grease, dirty and oily spots during handling and transportation.



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### 4 PACKING

- 4.1 Loose items shall be packed, duly labelled in a box and sealed properly to avoid damage during transportation. Packing list shall be pasted on every box, listing the contents of the box.

### 6.0 INSPECTION & TESTING

- 6.1 Bidder shall confirm compliance with the BHEL Standard Quality Plan (PE-QP-999-558-E004) without any deviations. At contract stage, the successful bidder shall submit the same QP for BHEL/ ultimate customer's approval. In case bidder has reference QP agreed with ultimate customer, same can be submitted for specific project after award of contract for BHEL/ ultimate customer's approval. There shall be no commercial implication to BHEL on account of any changes in QP during contract stage.
- 6.2 All the components and completely assembled equipment shall be tested as per the latest edition of standards. Any charges for these shall be deemed to be included in equipment price.
- 6.3 All the specified tests shall be carried out to verify the rating and performance of the equipment.
- 6.4 All manufacturing processes viz. machining, sheet forming, electroplating, wire routing, cleating & crimping, assembly, surface preparation shall conform to good manufacturing practices.

### 7.0 TOOLS AND TACKLE

- 7.1 Tools & tackle which are essential to facilitate assembly, adjustments, erection, maintenance & dismantling of equipment shall be provided as part of equipment supplied.
- 7.2 The above tools shall be supplied along with the initial consignment of equipment so as to be available prior to erection but may not be used for erection purposes.
- 7.3 Vendor shall also submit a list of recommended tools and tackle. Acceptance of these tools and tackle shall not be a binding on the purchaser.
- 7.4 Schedule of tools & tackle shall be filled up by bidder.

### 8.0 SPARES

- 8.1 Mandatory spares (if applicable) are indicated in BOQ-cum-price schedule.
- 8.2 Erection & commissioning spares are included in the bidder's scope of supply. Bidder to furnish list of E&C spares in the relevant schedules of the Bid Form and Price Schedules.



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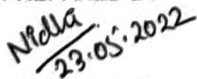
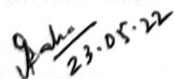
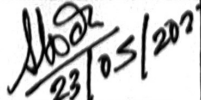
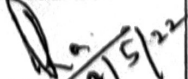
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|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------|
|  | <b>PRE-QUALIFYING REQUIREMENTS FOR<br/>STATION LIGHTING POLES FOR</b><br>2X500 MW NTPC MAUDA STAGE-I FGD<br>3X660 MW NPGCL NABINAGAR STPP FGD<br>3X660 MW NORTH KARANPURA FGD<br>2X250 MW NSPCL BHILAI TPP FGD<br>4X250 MW BRBCL NABINAGAR FGD<br>3X200MW + 3X500MW NTPC RAMAGUNDAM FGD<br>3X200MW + 3X500MW + 1X500MW NTPC KORBA FGD | <b>PE-PQ-444-558-E004</b> |                             |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                       | <b>REV. 00</b>            | <b>DATE:<br/>13/04/2022</b> |
|                                                                                  | <b>SHEET 1 OF 1</b>                                                                                                                                                                                                                                                                                                                   |                           |                             |

**ITEMS: STATION LIGHTING POLES****SCOPE: Supply : YES ; Erection & Commissioning: No**

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Vendor should be a manufacturer of lighting poles as per relevant IS.<br/>In case the vendor is not a manufacturer, the vendor to furnish the following documents:</p> <p>a) Undertaking / agreement from OEM of offered make for support in design, manufacture, inspection &amp; testing of poles.<br/>b) Credentials of the manufacturer of offered make to meet the PQR requirements of S. no. 2.0 to 4.0 below.<br/>c) Vendor's Credentials to meet S. no. 5.0.</p> |
| 2 | Availability of test reports of lighting poles conducted at Govt. Lab/ Govt. approved Independent lab or witnessed by third party as per relevant IS.                                                                                                                                                                                                                                                                                                                       |
| 3 | Capacity of manufacturing 50 lighting poles per month.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4 | Manufactured and supplied at least 100 lighting poles in one or more orders.                                                                                                                                                                                                                                                                                                                                                                                                |
| 5 | Minimum two (2) nos. purchase orders for lighting poles shall be submitted which should not be more than five (5) years old from the date of techno- commercial bid opening for establishing continuity in business.                                                                                                                                                                                                                                                        |

**NOTES:**

1. Consideration of offer shall be subject to customer's approval of bidders, if applicable.
2. Bidder to submit all supporting documents in English. If documents submitted by bidder are in language other than English, a self-attested English translated document should also be submitted.
3. Notwithstanding anything stated above, BHEL reserves the right to assess the capabilities and capacity of the bidder/collaborators to perform the contract, should the circumstances warrant such assessment in the overall interest of BHEL.
4. After satisfactory fulfilment of all the above criteria/ requirement, offer shall be considered for further evaluation as per NIT and all the other terms of the tender.

|                                                                                                                                                |                                                                                                                                               |                                                                                                                                              |                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PREPARED BY</b><br><br>NIDHI RAWAT<br>(DY.MANAGER-ELECT) | <b>REVIEWED BY</b><br><br>AYAN SAHA<br>(Sr. MANAGER-ELECT) | <b>APPROVED BY</b><br><br>SANDEEP LODH<br>(Sr. DGM-ELECT) | <b>APPROVED BY</b><br><br>DEBASISA RATHI<br>(AGM & DH-ELECT) |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|

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**QAP FOR  
OCTAGONAL GALVANIZED POLES**

## CAT-I with comments

| MANUFACTURER'S NAME AND ADDRESS                                                                              |                                                     | MANUFACTURING QUALITY PLAN                                            |                            |                                                                                                                                                                                                                                                                                                                                     |                              |                       |                                                                  | PROJECT :                                   |                            | KUDG: STEP-1 (SIRSI) MW |             |               |   |                                 |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|------------------------------------------------------------------|---------------------------------------------|----------------------------|-------------------------|-------------|---------------|---|---------------------------------|
| <b>एनटीपीसी NTPC</b><br>UTKARSH INDIA LIMITED<br>NH6, VILL: JANGALPUR, P.O.:<br>ANDULMOURI,<br>HOWRAH-711302 |                                                     | ITEM:                                                                 | OCTOGNAL POLE FOR LIGHTING | QP NO:                                                                                                                                                                                                                                                                                                                              | 9573-215-QVE Q-013           | PACKAGE :             |                                                                  | CONTRACT NO                                 | CS-9573-215-2-FC-COA 5971  |                         |             |               |   |                                 |
|                                                                                                              |                                                     | SIR-                                                                  |                            | RLY NO:                                                                                                                                                                                                                                                                                                                             | 0                            | MAIN SUPPLIER :       |                                                                  |                                             |                            |                         |             |               |   |                                 |
|                                                                                                              |                                                     | SYSTEM :                                                              |                            | DATE:                                                                                                                                                                                                                                                                                                                               | 11-02-16                     | PAGE:                 |                                                                  |                                             |                            |                         |             |               |   |                                 |
| SL NO.                                                                                                       | COMPONENT AND OPERATIONS                            | CHARACTERISTICS                                                       | CLASS                      | TYPE OF CHECK                                                                                                                                                                                                                                                                                                                       | QUANTUM OF CHECK<br>GM G C/N | REFERENCE OF DOCUMENT | ACCEPTANCE NORMS                                                 | FORMAT OF RECCRD                            | AGENCY                     |                         |             | REMARKS       |   |                                 |
|                                                                                                              |                                                     |                                                                       |                            |                                                                                                                                                                                                                                                                                                                                     |                              |                       |                                                                  |                                             | M                          | C                       | N           |               |   |                                 |
| 1                                                                                                            | Steel for Poles shaft                               | a. Chemical composition & mechanical properties                       | Major                      | Chemical & Mechanical                                                                                                                                                                                                                                                                                                               | Sample as per mfr std        | Same as G M           | NTPC Specification manufacturer's plant std                      | NTPC Specification manufacturer's plant std | TC                         | V                       | P           | V             | V | at the time of final inspection |
|                                                                                                              |                                                     | b. Thickness                                                          | Major                      | Measurement                                                                                                                                                                                                                                                                                                                         | Sample as per mfr std        | Same as G M           | NTPC Specification manufacturer's plant std                      | NTPC Specification manufacturer's plant std | TC                         | V                       | P           | V             | V |                                 |
| 2                                                                                                            | Poles continuously tapered, Octagonal cross Section | a. Dimension, Cross Section                                           | Major                      | Measurement                                                                                                                                                                                                                                                                                                                         | 100%                         | Random                | NTPC Approved Drawing                                            | NTPC Approved Drawing                       | Internal Inspection Report |                         | P           | W             | W |                                 |
|                                                                                                              |                                                     | b. Longitudinal weld                                                  | critical                   | visual                                                                                                                                                                                                                                                                                                                              | 100%                         | Random                | NTPC Appd Drg/ Data sheet manufacturer std                       | single defect free longitudinal weld        | Internal Inspection Report |                         | p           | W             | V |                                 |
|                                                                                                              |                                                     | c. Galvanisation checks [Thickness, uniformity of coating & adhesion] | Major                      | Measurement                                                                                                                                                                                                                                                                                                                         | 100%                         | Random                | NTPC Appd Drg/ Data sheet Drawing IS 2629/IS 2633/ 4759          | NTPC Appd Drg/ Data sheet Drawing           | Internal Inspection Report |                         | p           | W             | W |                                 |
| 3                                                                                                            | Brackets                                            | a. Dimension                                                          | Major                      | Measurement / verify                                                                                                                                                                                                                                                                                                                | 100%                         | Random                | NTPC Appd Drg                                                    | NTPC Appd Drg                               | Internal Inspection Report | V                       | P           | W             | W |                                 |
|                                                                                                              |                                                     | b. Galvanisation checks [Thickness, uniformity of coating & adhesion] | Major                      | Measurement                                                                                                                                                                                                                                                                                                                         | 100%                         | Random                | NTPC Appd Drg/ Data sheet Drawing : IS 2629/IS 2633/ ISO : 15461 | NTPC Appd Drg/ Data sheet Drawing           | Internal Inspection Report | V                       | P           | W             | W |                                 |
| 4                                                                                                            | Terminal Board / MCB / Bakelite Sheet               | Dimension / Make / grade                                              | Major                      | Visual                                                                                                                                                                                                                                                                                                                              | 100%                         | Random                | NTPC Specification / Material Test Certificate                   | as per NTPC approved Drawing                | TC                         | V                       | V           | V             | V |                                 |
| 5                                                                                                            | Foundation Bolt                                     | a. Mechanical Properties                                              | Major                      | Mechanical                                                                                                                                                                                                                                                                                                                          | 100%                         | Random                | NTPC Appd Drg/ Data sheet BS EN 8                                | NTPC Appd Drg/ Data sheet EN 8 Grade        | TC                         | V                       | P           | V             | V |                                 |
|                                                                                                              |                                                     | b. Dimension                                                          | Major                      | Measurement                                                                                                                                                                                                                                                                                                                         | 100%                         | Random                | NTPC Appd Drg/ Data sheet BS EN 8                                | NTPC Appd Drg/ Data sheet BS EN 8           | TC                         | V                       | P           | V             | V |                                 |
| MANUFACTURER / SUB-SUPPLIER                                                                                  |                                                     | IN SUPPLIER                                                           |                            | LEGEND: RECORDS, IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. LMP: NTPC SHALL IDENTIFY IN COLUMN "N"<br>M: MANUFACTURER/ SUB-SUPPLIER<br>C: SUPPLIER NOMINATED INSPECTION AGENCY/SUBJECT TO PRIOR ACCEPTANCE OF NTPC/N: NTPC<br>P: PERFORM W: WITNESS AND V: VERIFICATION AS APPROPRIATE |                              |                       |                                                                  | DOC NO:                                     |                            |                         |             |               |   |                                 |
| SIGNATURE                                                                                                    |                                                     |                                                                       |                            |                                                                                                                                                                                                                                                                                                                                     |                              |                       |                                                                  | FOR NTPC USE                                |                            | REVIEWED BY             | APPROVED BY | APPROVAL SEAL |   |                                 |
| FORMAT NO                                                                                                    |                                                     |                                                                       |                            |                                                                                                                                                                                                                                                                                                                                     |                              |                       |                                                                  |                                             |                            | ENGG. DIV./QA&E         |             |               |   |                                 |
|                                                                                                              |                                                     |                                                                       |                            | BQ DOC NO TECHNICAL SPECIFICATION                                                                                                                                                                                                                                                                                                   |                              |                       |                                                                  | GENERAL TECHNICAL REQUIREMENTS              |                            | PART C                  |             | PAGE 1 of 2   |   |                                 |



893810/2022/PS-PEM-EL

|                                                                                                                                                                                                                                                                                      |                          | <b>MANUFACTURERS NAME AND ADDRESS</b><br>UTKARSH INDIA LIMITED, NH6, VILL-<br>JANGALPUR, P.O: ANDUL MOURI,<br>HOWRAH-711302 |       | <b>MANUFACTURING QUALITY PLAN</b> |                        |                          |                       |                                      |                  | PROJECT :   |   |               |         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------|------------------------|--------------------------|-----------------------|--------------------------------------|------------------|-------------|---|---------------|---------|--|
|                                                                                                                                                                                                                                                                                                                                                                      |                          |                                                                                                                             |       | ITEM : OCTOGNAL POLE FOR LIGHTING |                        | QP NO: 9579-Z11-QVE-Q011 |                       | PACKAGE :                            |                  |             |   |               |         |  |
|                                                                                                                                                                                                                                                                                                                                                                      |                          |                                                                                                                             |       | SUB-SYSTEM :                      |                        | REV NO: 1                |                       | CONTRACT NO. :                       |                  |             |   |               |         |  |
|                                                                                                                                                                                                                                                                                                                                                                      |                          |                                                                                                                             |       |                                   |                        | DATE: 11-02-16           |                       | MAIN SUPPLIER :                      |                  |             |   |               |         |  |
| PAGE :                                                                                                                                                                                                                                                                                                                                                               |                          |                                                                                                                             |       |                                   |                        |                          |                       |                                      |                  |             |   |               |         |  |
| Sl NO.                                                                                                                                                                                                                                                                                                                                                               | COMPONENT AND OPERATIONS | CHARACTERISTICS                                                                                                             | CLASS | TYPE OF CHECK                     | QUANTUM OF CHECK<br>GM | 6 C/N                    | REFERENCE OF DOCUMENT | ACCEPTANCE NORMS                     | FORMAT OF RECORD | AGENCY      |   |               | REMARKS |  |
| 1                                                                                                                                                                                                                                                                                                                                                                    | 2                        | 3                                                                                                                           | 4     | 5                                 | 6                      | 7                        | 8                     | 9                                    | 10               | M           | C | N             | 11      |  |
| 6                                                                                                                                                                                                                                                                                                                                                                    | Final Testing            | a. Deflection Test                                                                                                          | Major | Measurement                       | 1 Nos. per lot         | Random                   | As per IS 40-3:3      | As per Annexures A,B,C Docs Enclosed | TR               | V           | P | W             | W       |  |
|                                                                                                                                                                                                                                                                                                                                                                      |                          | b. Straightness                                                                                                             | Major | Measurement                       | 1 Nos. per lot         | Random                   | As per BSEN 40-2      | As per Annexures A,B,C Docs Enclosed | TR               | V           | P | W             | W       |  |
|                                                                                                                                                                                                                                                                                                                                                                      |                          | c. Weight                                                                                                                   | Major | Measurement                       | 2 Nos. per lot         | Random                   | As per IS 2713        | As per Annexures A,B,C Docs Enclosed | TR               | V           | P | W             | W       |  |
| Note: LOT Size = 500 Poles<br>LEGEND: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. CMP: NTPC SHALL IDENTIFIED IN COLUMN "N"<br>M: MANUFACTURER/ SUB-SUPPLIER<br>C: SUPPLIER NOMINATED INSPECTION AGENCY (SUBJECT TO PRIOR ACCEPTANCE OF NTPC) N: NTPC<br>P: PERFORM W: WITNESS AND V: VERIFICATION AS APPROPRIATE |                          |                                                                                                                             |       |                                   |                        |                          |                       |                                      |                  |             |   |               |         |  |
| MANUFACTURER / SUB-SUPPLIER                                                                                                                                                                                                                                                                                                                                          |                          | SIGNATURE                                                                                                                   |       | FORMAT NO.: QS-01                 |                        | FOR NTPC USE             |                       | REVIEWED BY                          |                  | APPROVED BY |   | APPROVAL SEAL |         |  |
| ENG. DIV. / QA&I                                                                                                                                                                                                                                                                                                                                                     |                          |                                                                                                                             |       |                                   |                        |                          |                       |                                      |                  |             |   |               |         |  |
| BID DOC. NO.                                                                                                                                                                                                                                                                                                                                                         |                          | TECHNICAL SPECIFICATION                                                                                                     |       | GENERAL TECHNICAL REQUIREMENTS    |                        | PART C                   |                       | PAGE 2 of 2                          |                  |             |   |               |         |  |

**APPROVED**

By BOMMENA SRINIVAS at 6:17 pm, Jun 15, 2018

**BOMMENA** Digitally signed by  
**SRINIVAS** BOMMENA SRINIVAS  
 Date: 2018.06.15  
 18:19:43 +05'30'