

**ANNEXURE-1: BOQ-CUM-UNPRICED SCHEDULE FOR DC LEAD ACID BATTERY FOR 2X660 MW UDANGUDI STPP STAGE-1**

**TENDER ENQUIRY NO.: PE/PG/UDN/E-6194/2019 DATED 07.05.2019**

| SL NO  | ITEM CODE    | ITEM DESCRIPTION/ SERVICE                                                                                                                                                                                                  | HSN CODE | UOM  | TOTAL QTY | REMARKS                                                                                                                                                                                                                                                                                                                             | FOR INDIAN BIDDER                            |                                              |                     |                                                                     |                                               | FOR FOREIGN BIDDER                 |                                     |
|--------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|---------------------|---------------------------------------------------------------------|-----------------------------------------------|------------------------------------|-------------------------------------|
|        |              |                                                                                                                                                                                                                            |          |      |           |                                                                                                                                                                                                                                                                                                                                     | UNIT EX-WORKS PRICE (DULY PACKED) (INR) (1)  | TOTAL EX-WORKS PRICE (DULY PACKED) (INR) (2) | FREIGHT CHARGES (3) | APPLICABLE GST RATE IN % ON TOTAL EX WORKS + FREIGHT BOTH (INR) (4) | TOTAL PRICE F.O.R Prices with taxes (INR) (5) | UNIT C&F Price (Currency.....) (7) | Total C&F Price (Currency.....) (8) |
|        |              |                                                                                                                                                                                                                            |          |      |           |                                                                                                                                                                                                                                                                                                                                     | % OF TOTAL EX WORKS (DA) (MENTION RATE HERE) | AMOUNT IN (INR) (3B) = [233A]                |                     | GST RATE IN % ON TOTAL EX WORKS + FREIGHT (5A) (MENTION RATE HERE)  | TOTAL AMOUNT IN (INR) (5B) = [453A]           |                                    |                                     |
| A      | 220V BATTERY |                                                                                                                                                                                                                            |          |      |           |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.1    | 508-11013-A  | BREAK UP DETAIL for 220V BATTERY 1 (Area 1)                                                                                                                                                                                |          | Set  | 4         | FOR MAIN PLANT & STATION LOADS                                                                                                                                                                                                                                                                                                      |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.1.1  |              | 220V Lead acid plate battery suitable for MAIN PLANT as per Annexure-I (Load duty cycle), LBS ECV, 108 cells, Lead-Acid plate high discharge type battery suitable for MAIN PLANT with all accessories listed as A.2 below | 8507     | Sets | 4         | One Set=> One Battery String comprising of 108 Cells<br>If one string is not meeting the required AH capacity, multiple (n nos.) strings of 108 cells each shall be provided. The complete connectors (including inter cell, inter-row, inter-bank connectors), required to connect the "n" nos. strings shall be in bidder's scope |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.1.2  |              | Electrolyte (sulphuric acid for first filling plus 10% extra in non-returnable containers)                                                                                                                                 | 2807     | Sets | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.1.3  |              | Mild Steel racks properly treated with 3 coats of anti-acid paints                                                                                                                                                         | 7301     | Sets | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.1.4  |              | Stand Insulators plus 5% extra (if applicable)                                                                                                                                                                             | 4415     | Lot  | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.1.5  |              | Cell interconnectors with 5% extra and one extra end take-off                                                                                                                                                              | 8507     | Lot  | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.1.6  |              | Inter bank & Inter row connectors with 5% extra                                                                                                                                                                            | 8507     | Lot  | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.1.7  |              | Cell numbering tags with fixing arrangement (1 set)                                                                                                                                                                        | 3919     | Lot  | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.1.8  |              | Anti-splash type vent plug                                                                                                                                                                                                 | 8507     | Sets | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2    |              | <b>LIST OF ACCESSORIES - Area 1</b>                                                                                                                                                                                        |          | SET  | 2         | ONE SET FOR UNIT # 1 & ONE SET FOR UNIT # 2                                                                                                                                                                                                                                                                                         |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.1  |              | Inter-connector bolt wrench                                                                                                                                                                                                | 8204     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.2  |              | Electronic Syringe type Hydrometer with temperature measurement and with built in memory.                                                                                                                                  | 9025     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.3  |              | Specific gravity correction chart                                                                                                                                                                                          | 4901     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.4  |              | Acid resistant jug                                                                                                                                                                                                         | 9025     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.5  |              | Thermometer with plug & cap, specific gravity correction scale                                                                                                                                                             | 9025     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.6  |              | Cell testing voltmeter (digital) with leads (3-0-3V)                                                                                                                                                                       | 9030     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.7  |              | Pocket Thermometer                                                                                                                                                                                                         | 9025     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.8  |              | Electrolyte resisting funnels                                                                                                                                                                                              | 3924     | Nos  | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.9  |              | Electrolyte resisting jug of adequate capacity                                                                                                                                                                             | 3924     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.10 |              | Rubber apron                                                                                                                                                                                                               | 4015     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.11 |              | Pair of rubber hand gloves                                                                                                                                                                                                 | 4015     | Set  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.12 |              | Cell lifting straps                                                                                                                                                                                                        | 8507     | Set  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.13 |              | Insulated Spanner for cells                                                                                                                                                                                                | 8204     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.14 |              | First aid box                                                                                                                                                                                                              | 3006     | Nos  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.15 |              | Goggles (Industrial)                                                                                                                                                                                                       | 9003     | Nos  | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.16 |              | No smoking notice                                                                                                                                                                                                          | 3926     | Nos  | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.17 |              | Wall mounting holders for hydrometer and thermometer                                                                                                                                                                       | 8466     | Nos  | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.2.18 |              | Wall mounted teak wood/Acid resistant rubber insulated steel rack for above items.                                                                                                                                         | 8466     | No.  | 2         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.3    | 508-11004-A  | BATTERY HEALTH MONITORING SYSTEM FOR EACH BATTERY BANK (Area 1)                                                                                                                                                            | 8536     | Nos  | 4         |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
|        |              | for Battery as per A.1.1 above.                                                                                                                                                                                            |          |      |           |                                                                                                                                                                                                                                                                                                                                     |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |
| A.4    | 508-11014-A  | BREAK UP DETAIL for 220V BATTERY 2 (Area 2)                                                                                                                                                                                |          | Set  | 1         | FOR WATER TREATMENT & RO PLANT LOADS                                                                                                                                                                                                                                                                                                |                                              |                                              |                     |                                                                     |                                               |                                    |                                     |

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**TENDER ENQUIRY NO.: PE/PG/UDN/E-6194/2019 DATED 07.05.2019**

| FOR INDIAN BIDDER |             |                                                                                                                                                                                                                       |          |      |           |                                                      |                                             |                                               |                                                | FOR FOREIGN BIDDER           |                                             |                                                                       |                                               |                                     |                                      |
|-------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------|------------------------------------------------------|---------------------------------------------|-----------------------------------------------|------------------------------------------------|------------------------------|---------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|-------------------------------------|--------------------------------------|
| SL NO             | ITEM CODE   | ITEM DESCRIPTION/ SERVICE                                                                                                                                                                                             | HSN CODE | UOM  | TOTAL QTY | REMARKS                                              | UNIT EX-WORKS PRICE (DULY PACKED) (INR) (1) | TOTAL EX- WORKS PRICE (DULY PACKED) (INR) (2) | FREIGHT CHARGES (3)                            |                              | TOTAL PRICES (ex-works + freight) (INR) (4) | APPLICABLE GST RATE IN % ON (TOTAL EX WORKS + FREIGHT) BOTH (INR) (5) | TOTAL PRICE F.O.B Prices with taxes (INR) (6) | UNIT C&F Price (Currency:.....) (7) | Total C&F Price (Currency:.....) (8) |
|                   |             |                                                                                                                                                                                                                       |          |      |           |                                                      |                                             |                                               | ● % OF TOTAL EX WORKS (3A) (MENTION RATE HERE) | AMOUNT IN (INR) (3B) +(2X3A) | (4)=(2+3B)                                  | GST RATE IN % ON (TOTAL EX WORKS + FREIGHT) (5A) (MENTION RATE HERE)  | TOTAL AMOUNT IN (INR) (5B)=(4X5A)             |                                     |                                      |
| A.4               | 508-11014-A | BREAK UP DETAIL for 220V BATTERY 2 (Area 2)                                                                                                                                                                           |          | Set  | 1         | FOR WATER TREATMENT & RO PLANT LOADS                 |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.4.1             |             | 220V, Lead acid plant battery suitable for AREA 2 as per Annexure-II (Load duty cycle), 1.85 ECV, 108 cells, Lead-Acid plant High discharge type battery suitable for AREA 2 with all accessories listed as A.5 below | 8507     | Sets | 1         | One Set=> One Battery String comprising of 108 Cells |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.4.2             |             | Electrolyte (sulphuric acid for first filling plus 10% extra)                                                                                                                                                         | 2807     | Sets | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.4.3             |             | Mild Steel racks properly treated with 3 coats of anti acid paints                                                                                                                                                    | 7301     | Sets | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.4.4             |             | Stand Insulators plus 5% extra (If applicable)                                                                                                                                                                        | 4415     | Lot  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.4.5             |             | Cell interconnectors with 5% extra and one extra end take-off                                                                                                                                                         | 8507     | Lot  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.4.6             |             | Inter bank & Inter row connectors with 5% extra                                                                                                                                                                       | 8507     | Lot  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.4.7             |             | Cell numbering tags with fixing arrangement (1 Set)                                                                                                                                                                   | 3919     | Lot  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.4.8             |             | Anti-splash type vent plug                                                                                                                                                                                            | 8507     | Sets | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5               |             | LIST OF ACCESSORIES - Area 2                                                                                                                                                                                          |          | SET  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.1             |             | Inter-connector bolt wrench                                                                                                                                                                                           | 8204     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.2             |             | Electronic Syringe type Hydrometer with temperature measurement and with built in memory.                                                                                                                             | 9025     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.3             |             | Specific gravity correction chart                                                                                                                                                                                     | 4901     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.4             |             | Acid resistant Jug                                                                                                                                                                                                    | 9025     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.5             |             | Thermometer with plug & cap, specific gravity correction scale                                                                                                                                                        | 9025     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.6             |             | Cell testing voltmeter (digital) with leads (3-0-3V)                                                                                                                                                                  | 9030     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.7             |             | Pocket Thermometer                                                                                                                                                                                                    | 9025     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.8             |             | Electrolyte resisting funnels                                                                                                                                                                                         | 3924     | Nos  | 2         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.9             |             | Electrolyte resisting Jug of adequate capacity                                                                                                                                                                        | 3924     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.10            |             | Rubber apron                                                                                                                                                                                                          | 4015     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.11            |             | Pair of rubber hand gloves                                                                                                                                                                                            | 4015     | Set  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.12            |             | Cell lifting straps                                                                                                                                                                                                   | 8507     | Set  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.13            |             | Insulated Spanner for cells                                                                                                                                                                                           | 8204     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.14            |             | First aid box                                                                                                                                                                                                         | 3006     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.15            |             | Goggles (Industrial)                                                                                                                                                                                                  | 9003     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.16            |             | "No smoking" notice                                                                                                                                                                                                   | 3926     | Nos  | 2         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.17            |             | Wall mounting holders for hydrometer and thermometer                                                                                                                                                                  | 8466     | Nos  | 2         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.5.18            |             | Wall mounted teak wood/Acid resistant rubber insulated steel rack for above items.                                                                                                                                    | 8466     | No.  | 2         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.6               | 508-11005-A | BATTERY HEALTH MONITORING SYSTEM FOR EACH BATTERY BANK (Area 2)                                                                                                                                                       | 8536     | Nos  | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.7               | 608-11015-A | BREAK UP DETAIL for 220V BATTERY 3 (Area 3)                                                                                                                                                                           |          | Set  | 1         | FOR SEA WATER INTAKE LOAD SYSTEMS.                   |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.7.1             |             | 220V, Lead acid plant battery suitable for AREA 3 as per Annexure-II (Load duty cycle), 1.85 ECV, 108 cells, Lead-Acid plant High discharge type battery suitable for AREA 3 with all accessories listed as A.7 below | 8507     | Sets | 1         | One Set=> One Battery String comprising of 108 Cells |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |
| A.7.2             |             | Electrolyte (sulphuric acid for first filling plus 10% extra)                                                                                                                                                         | 2807     | Sets | 1         |                                                      |                                             |                                               |                                                |                              |                                             |                                                                       |                                               |                                     |                                      |

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**ANNEXURE-1: BOQ-CUM-UNPRICED SCHEDULE FOR DC LEAD ACID BATTERY FOR 2X660 MW UDANGUDI STPP STAGE-1**

**TENDER ENQUIRY NO.: PE/PG/UDN/E-6194/2019 DATED 07.05.2019**

| FOR INDIAN BIDDER |             |                                                                                                                                                                                      |          |       |           |                                                                                                 |                                              |                                               |                                                                      |                                    | FOR FOREIGN BIDDER                         |                                                                     |  |                                               |                                    |                                     |
|-------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|-------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------|------------------------------------|--------------------------------------------|---------------------------------------------------------------------|--|-----------------------------------------------|------------------------------------|-------------------------------------|
| SL NO             | ITEM CODE   | ITEM DESCRIPTION/ SERVICE                                                                                                                                                            | HSN CODE | UOM   | TOTAL QTY | REMARKS                                                                                         | UNIT EX-WORKS PRICE (DULY PACKED) (INR) (1)  | TOTAL EX- WORKS PRICE (DULY PACKED) (INR) (2) | FREIGHT CHARGES (3)                                                  |                                    | TOTAL PRICES (4) works + freight (INR) (4) | APPLICABLE GST RATE IN % ON TOTAL EX WORKS + FREIGHT BOTH (INR) (5) |  | TOTAL PRICE F.O.R Prices with taxes (INR) (6) | UNIT C&F Price (Currency.....) (7) | Total C&F Price (Currency.....) (8) |
|                   |             |                                                                                                                                                                                      |          |       |           |                                                                                                 | % OF TOTAL EX WORKS (3A) (MENTION RATE HERE) | AMOUNT IN (INR) (3B) =(2X3A)                  | GST RATE IN % ON( TOTAL EX WORKS + FREIGHT) (5A) (MENTION RATE HERE) | TOTAL AMOUNT IN (INR) (5B) =(4+5A) | (6)=(4+5B)                                 |                                                                     |  |                                               |                                    |                                     |
| A.7.3             |             | Mild Steel racks properly treated with 3 coats of anti-acid paints                                                                                                                   | 7301     | Sets  | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.7.4             |             | Stand Insulators plus 5% extra (If applicable)                                                                                                                                       | 4415     | Lot   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.7.5             |             | Cell interconnectors with 5% extra and one extra end take-off                                                                                                                        | 8507     | Lot   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.7.6             |             | Inter bank & Inter row connectors with 5% extra                                                                                                                                      | 8507     | Lot   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.7.7             |             | Cell numbering tags with fixing arrangement (1 Set)                                                                                                                                  | 3919     | Lot   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.7.8             |             | Anti-splash type vent plug                                                                                                                                                           | 8507     | Sets  | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8               |             | LIST OF ACCESSORIES - Area 3                                                                                                                                                         | SET      | SET   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.1             |             | Inter-connector bolt wrench                                                                                                                                                          | 8204     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.2             |             | Electronic Syringe type Hydrometer with temperature measurement and with built in memory.                                                                                            | 9025     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.3             |             | Specific gravity correction chart                                                                                                                                                    | 4901     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.4             |             | Acid resistant Jug                                                                                                                                                                   | 9025     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.5             |             | Thermometer with plug & cap, specific gravity correction scale                                                                                                                       | 9025     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.6             |             | Cell testing voltmeter (digital) with leads (3-0-3V)                                                                                                                                 | 9030     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.7             |             | Pocket Thermometer                                                                                                                                                                   | 9025     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.8             |             | Electrolyte resisting funnels                                                                                                                                                        | 3924     | Nos   | 2         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.9             |             | Electrolyte resisting Jug of adequate capacity                                                                                                                                       | 3924     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.10            |             | Rubber apron                                                                                                                                                                         | 4015     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.11            |             | Pair of rubber hand gloves                                                                                                                                                           | 4015     | Set   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.12            |             | Cell lifting straps                                                                                                                                                                  | 8507     | Set   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.13            |             | Insulated Spanner for cells                                                                                                                                                          | 8204     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.14            |             | First aid box                                                                                                                                                                        | 3006     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.15            |             | Goggles (Industrial)                                                                                                                                                                 | 9003     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.16            |             | 'No smoking' notice                                                                                                                                                                  | 3926     | Nos   | 2         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.17            |             | Wall mounting holders for hydrometer and thermometer                                                                                                                                 | 8466     | Nos   | 2         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.8.18            |             | Wall mounted teak wood/Acid resistant rubber insulated steel rack for above items.                                                                                                   | 8466     | No.   | 2         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| A.9               | 508-11006-A | BATTERY HEALTH MONITORING SYSTEM FOR EACH BATTERY BANK (Area 3)                                                                                                                      | 8536     | Nos   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| B                 | 508-11007-A | for Battery as per d.no. A.7.1 above.                                                                                                                                                |          |       |           |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| B.1               |             | E & C SPARES                                                                                                                                                                         |          |       |           |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| B.2               |             | Gloves                                                                                                                                                                               | 4015     | Set   | 6         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| B.3               |             | Vent Plugs                                                                                                                                                                           | 8507     | Nos   | 15        |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
|                   |             | Inter-cell connectors                                                                                                                                                                | 8507     | Nos   | 15        |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| C                 | 508-11025-A | SUPERVISION OF E&C (Including Tests on all batteries, as mentioned in Section-I, to be carried out at Site on completion of E & C & immediately prior to putting battery in service) |          |       |           | 1 Visit & 4 Days each for U#1 MAIN PLANT, U#2 MAIN PLANT, (WT & FO PLANT) & (SW SYSTEM) BATTERY |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| C.1               |             | LUMP SUM CHARGES PER VISIT FOR ENGINEER (EXCEPT DAILY CHARGES)                                                                                                                       | 9987     | VISIT | 4         | REFER NOTE-1 & 2                                                                                |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| C.2               |             | LUMP SUM DAILY CHARGES FOR ENGINEER                                                                                                                                                  | 9987     | DAYS  | 16        | REFER NOTE-1 & 2                                                                                |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| D                 | 508-11006-B | MANDATORY SPARES One Set for Area 1                                                                                                                                                  |          | SET   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| D.1               |             | Inter cell connectors with insulated cover                                                                                                                                           | 8507     | Nos.  | 10        |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| D.2               |             | Inter row connectors with insulated cover                                                                                                                                            | 8507     | Nos.  | 10        |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| D.3               |             | Battery stand Insulators                                                                                                                                                             | 4415     | Nos.  | 10        |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| D.4               |             | Cell Insulators                                                                                                                                                                      | 4415     | Nos.  | 10        |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| D.5               |             | Nuts, bolts & washers-each type                                                                                                                                                      | 7318     | Set   | 1         |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |
| D.6               |             | Vent plugs                                                                                                                                                                           | 8507     | Nos.  | 10        |                                                                                                 |                                              |                                               |                                                                      |                                    |                                            |                                                                     |  |                                               |                                    |                                     |

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**ANNEXURE-1: BOQ-CUM-UNPRICED SCHEDULE FOR DC LEAD ACID BATTERY FOR 2X660 MW UDANGUDI STPP STAGE-1**

**TENDER ENQUIRY NO.: PE/PGIUDN/E-6194/2019 DATED 07.05.2019**

| FOR INDIAN BIDDER |             |                                            |          |      |                          |         |                                         |     |                     |               |                                         |     |                                                                   |     | FOR FOREIGN BIDDER                        |  |                                |  |                                 |  |
|-------------------|-------------|--------------------------------------------|----------|------|--------------------------|---------|-----------------------------------------|-----|---------------------|---------------|-----------------------------------------|-----|-------------------------------------------------------------------|-----|-------------------------------------------|--|--------------------------------|--|---------------------------------|--|
| SL NO             | ITEM CODE   | ITEM DESCRIPTION/ SERVICE                  | HSN CODE | UOM  | TOTAL QTY                | REMARKS | UNIT EX-WORKS PRICE (DUTY PACKED) (INR) |     | FREIGHT CHARGES (3) |               | TOTAL PRICES (ex works + freight) (INR) |     | APPLICABLE GST RATE IN % ON (TOTAL EX WORKS + FREIGHT) BOTH (INR) |     | TOTAL PRICE F.O.R Prices with taxes (INR) |  | UNIT C&F Price (Currency.....) |  | Total C&F Price (Currency.....) |  |
|                   |             |                                            |          |      |                          |         | (1)                                     | (2) | (3A)                | (3B) – (2X3A) | (4)                                     | (5) | (6)                                                               | (7) | (8)                                       |  |                                |  |                                 |  |
| D.7               |             | Spare dry cell                             |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| D.8               |             | BHMS sensors for each type and rating      |          | Nos. | 10 % of total population |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| E                 | 508-11000-B | MANDATORY SPARES One Set for Area 2        |          | SET  | 1                        |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| E.1               |             | Inter cell connectors with insulated cover |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| E.2               |             | Inter row connectors with insulated cover  |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| E.3               |             | Battery stand insulators                   |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| E.4               |             | Cell insulators                            |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| E.5               |             | Nuts, bolts & washers-each type            |          | Set  | 1                        |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| E.6               |             | Vent plugs                                 |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| E.7               |             | Spare dry cell                             |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| E.8               |             | BHMS sensors for each type and rating      |          | Nos. | 10 % of total population |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| F                 | 508-11000-B | MANDATORY SPARES One Set for Area 3        |          | SET  | 1                        |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| F.1               |             | Inter cell connectors with insulated cover |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| F.2               |             | Inter row connectors with insulated cover  |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| F.3               |             | Battery stand insulators                   |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| F.4               |             | Cell insulators                            |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| F.5               |             | Nuts, bolts & washers-each type            |          | Set  | 1                        |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| F.6               |             | Vent plugs                                 |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| F.7               |             | Spare dry cell                             |          | Nos. | 10                       |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| F.8               |             | BHMS sensors for each type and rating      |          | Nos. | 10 % of total population |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |
| Total in figures  |             |                                            |          |      |                          |         |                                         |     |                     |               |                                         |     |                                                                   |     |                                           |  |                                |  |                                 |  |

**Notes:-**

1. AMOUNT PAYABLE FOR ENGINEER PER VISIT TO SITE = VISIT CHARGES AS PER SL. NO. C.1 ABOVE + (DAILY CHARGES AS PER SL. NO. C.2 ABOVE X NO. OF DAYS AT SITE) (TO BE CERTIFIED BY BHEL SITE).
2. THE VISIT CHARGES SHALL BE INCLUSIVE OF CHARGES OF AIR FARE/ TRAIN FARE/ VISA FEES, BOARDING/ LODGING, LOCAL CONVEYANCE, MEDICAL, INSURANCE ETC.
3. COPPER LUGS FOR CABLE TERMINATION AT BATTERY TERMINALS & BHMS SHALL BE IN BIDDER'S SCOPE & CABLE SIZES SHALL BE INFORMED DURING DETAILED ENGINEERING.
4. ONE BATTERY BANK COMPRISES OF 108 CELLS.
5. EACH SET / LOT MENTIONED AGAINST ITEM AT S.NO A1.2, A1.3, A1.4, A1.5, A1.6, A1.7 & A1.8 CORRESPONDS TO THE REQUIRED QUANTITY FOR 1 SET OF ITEM AT S.NO A1.1. SAME IS TO BE READ FOR A.4 & A.7.

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