## बिहार पुलिस भवन निर्माण निगम

(बिहार सरकार का उपक्रम) कौटित्य नगर, पटना–14, फोन न0–2223727, फैक्स नं0– 2224529 2224529

## पुनकटिशन आमंत्रण सूचना संख्या- 4/2017-18

पुनकेटिशन आमंत्रण सूचना संख्या- 4/2017-18 बिहार राज्य के वैशाली जिलान्तर्गत हाजीपुर मंडल कारा परिसर में बिहार सुवारात्मक प्रशिक्षण संस्थान (B.I.C.A.) के लिए 750 KVA Distribution Transformer, Panel, Cable, laying of cable, earthing सहित आपूर्ति, अधिष्ठापन, टेरिटंग एवं कृत्मिश्तर्गमा का कार्य का पर्याप्त अनुमव रखने वाले निर्माताओं (KIRLOSKER/CROMPTON GRIVESIMODERN/ EMCO/HEC/EAST INDIA/RAXION/TESLA etc.) से मुहरवंद ई.कोटेशन दिनांक- 11.05.2017 के 3.00 बजे अपराहन तक आमंत्रित की जाती हैं जो निगम के येबसाइट www.bpbcc.co.in से डाठन लोड की जा तकती हैं । --कोटेशन तक आमंत्रित की जाती हैं जो निगम के येबसाइट www.bpbcc.co.in से डाठन लोड की जा तकती हैं । --कोटेशन उभी दिधि को अपराहन 3.30 बजे कोटेशनदाताओं या उनके द्वारा प्राधिकृत प्रतिनिधियों के समक्ष खोली जाएगी । कोटेशनदाता अपना कोटेशन स्थल निशेक्षण के प्रश्वात ही समर्पित करेंगे । स्थल की जानकारी विद्युत कार्यपालक अभियंता, पटना से प्राप्त की जा सकती है । कोई भी कोटेशन को बिना कारण बताये रदद करने तथा कार्यपालक अभियंता, पटना से प्राप्त की जा सकती है । कोई भी कोटेशन को बिना कारण बताये रदद करने तथा कार्यपालक अभियंता में कमी या वृद्धि का अधिकार अधोहस्ताक्षरी को सुरक्षित रहेगा । उक्त कार्य के बारे में विरत्त Terms & conditions Re-quotation no.4/2017-18 as annexure-1 जानकारी, रूपरेखा एवं अन्य सूचनाएँ किसी भी कार्य दिवस में अधोहस्ताक्षरी के कार्यालय या येबसाइट www.bpbcc.co.in पर भी देखा जा सकता है ।

2

मा मुख्य अभिग्रित, पटना ।

## Annexure-I

## of e quotation no.4/2017-18 Detailed estimate for Supply, installation, testing commissioning of Two Pole structure, 750 KVA Distribution Transformer, Panel, Cable ,laying of Cable and etc. as per reqd. work at Bihar Institute of correctional administration(B.I.C.A) Hazipur in the Dist. of vaishali.

| No  | Part | Item Description  | Make    | Qty. |           | Rate           | Amount |
|-----|------|---|---------|------|-----------|----------------|--------|
|     |      | Supplyof H.T. Yard / Sub-Station  |         |      |           |                |        |
|     |      | Supply of following material as per the detail given in the specifications and item list description.   |         | 1    |           |                |        |
| 1   | NSI  | Supply & installation Two pole structural Rail pole 13mtr   |         |      |           |                | -      |
|     |      | 105LBS (60KG) conforming to for erecting 11kv two pole<br>structure comprising with red oxide primer and and two<br>coats at synthetic enamel paint and neceessary foundation   |         |      |           |                |        |
|     |      | including excavation and earth work for steel structure with PCC 1:2:4 with following accessories   |         |      |           |                |        |
|     |      | Supply & installation 11kv 9KA Discharge current single<br>pole lighting arrestor with insulted base necessary<br>hardware -3nos  |         |      |           | jim            |        |
|     |      | Supply & installation 11kv single pole strain insulator<br>complete with all necessary hardware -3nos   |         |      |           |                |        |
|     |      | Supply & installation 11kv 3 phase 200A Vertical type gang<br>operated switch with Hot dip galvanised channels post<br>type, insulater ,tinned ,copper contacts,arcing horns , GI<br>pipe gange operating handle, locking arrangement etc.<br>complete in all recpect. 1set |         |      |           |                |        |
|     |      | Supply & installation 11kv Post type insulator jumper<br>Support -3nos  |         |      |           |                |        |
|     |      | 11KV 3 Phase 200A Dropout fuse with 60Amp Vertical type insulator tinned copper contacts Bakelite fuse carriers etc. complete in all respects-1Set.   |         |      |           | -              |        |
|     |      | Supplying & installing of "DOG" 6/. 186 Al Plus 7 / 0.062<br>Steel ACSR overhead conductor 10 Mtr.  |         |      |           |                |        |
|     |      | Anti-Climbing devices on each pole made out of 2mm<br>barbed wire coiled along with pole  |         |      |           |                |        |
|     |      | Danger Notice Boards with Skull & Bones in red colour<br>made out of 14 swg sheet in Hindi & English with voltage<br>indicator,   |         | 1    | Set       |                |        |
| 21  |      | Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia<br>including accessories, and providing masonry enclosure<br>with cover plate having locking arrangement and watering<br>pipe etc. with charcoal/ coke and salt as required. (For<br>Lighting arrestor)             |         | 2    | Sq<br>mtr |                |        |
| 3 1 | NSI  | Extra for using salt and charcoal for proper earth electrode as required.   | No.     | 2    | set       | and the second |        |
| 4 1 | NSI  | Supplying and laying 8 SWG copper wire at 0.50<br>metre below ground level for conductor earth<br>electrode, including soldering etc. as required.  |         | 30   | Mtr       |                |        |
| 5 M | NSI  | Providing and laying earth connections from earth<br>electrode with 4.00 mm copper wire in 15 mm dia<br>G.I. pipe from earth electrode, as required.  | or make | 10   | Mtr       |                |        |

| 6     | NSI     | Earthing with copper earth plate 600mm x 600 mm x  |  | 2           | Set                                     |                      |         |
|-------|---------|--|--|-------------|---|----------------------|---------|
|       |         | 3 mm thick including accessories and providing   |  | 7637        |   | Caning States        |         |
|       |         | masonary enclosure with cover plate having locking   | Francisco Inter                          | a public    |   |                      |         |
|       |         | arrangement and watering pipe etc as required. (but  |  | STUDIE.     |   | Walker Boller, N     |         |
|       |         |  | A instrikt                               |             |   | New Contention       |         |
|       |         | without charcoal or coke and salt)   |  |             |   |                      |         |
| 7     | NSI     | Extra for using salt and charcoal for G.I or Copper  | and the second                           | 2           | Set                                     |                      |         |
|       |         | Plate earth electrode as required.   | M. C. Brannie                            |             |   |                      | -       |
|       | NSI     | Supplying and laying 8 SWG copper wire at 0.50   | and the second second                    | 100         | Mtr                                     |                      |         |
|       |         | metre below ground level for conductor earth   | Sensitive 1                              |             |   |                      |         |
|       |         | electrode, including soldering etc. as required.   |  | 144         |   |                      |         |
| 8     | NSI     | Providing and laying earth connections from earth  |  | 80 Mtr      | Set                                     |                      |         |
|       | 11.51   | electrode with 4.00 mm copper wire in 15 mm dia  | Sentensieren auf                         | 1000        | no sur pravije                          |                      |         |
|       |         | G.I. pipe from earth electrode, as required.   | Chick Station of                         |             |   |                      |         |
| _     |         | S/L 50 mmx6mm G.I Strip with Insulation as strip earth   |  | 50          | Mtr                                     |                      |         |
| 9     |         | S/L 50 mmx6mm G.I Strip with insulation as strip earth   |  |             |   |                      |         |
|       |         | electrode, including connection/terminating with G.I   |  |             | a the second                            |                      |         |
|       |         | nut, bolt spring washer etc as required ( Jointing shall be  | 1. | 1.1.1.1.1.1 |   |                      |         |
| 12    |         | done by over lapping and with 2 sets of G.I nut bolt &   |  |             |   |                      |         |
|       |         | spring washer spaced at 50mm.  |  | 10          | Mtr                                     | 1 Part of the second |         |
| 10    |         | P/f 50 mm x 10 mm copper strip in 65 mm dia G.I Pipe from  | and the second                           | 40          | WILT                                    |                      |         |
|       |         | earth electrode including connection with brass  | 1200                                     | and the lot |   |                      |         |
|       |         | nut,bolt,spring,washer excavation and refilling etc as   | STABLES &                                | 0.452.5     | 1.0                                     |                      |         |
|       |         | required.  |  |             |   |                      |         |
| 10.49 | din and | Supply and Installation and commissioning of outdoor   | and the second                           | 1           | set                                     | and the property of  |         |
|       |         | pad mounted 750 KVA,11 KV/415 V, 3 phase 50 HZ   |  |             |   |                      |         |
|       |         | Delta/star,Oil cooltype copper wound Transformer   |  |             |   |                      |         |
|       | Cart    | confirming with-Off Circuit Tap Changer to IS-2026   |  |             | Constant Providence                     | a dina di serio      |         |
|       |         | complete with all standard accessories & equipments etc as per specification with required test as per I.S rules | Longer de la                             |             |   | Marine Marine        |         |
|       |         | etc as per specification with required test as per no rates  | 116.63                                   |             |   |                      |         |
|       |         | Construction & Supply Of All raw materials for making of   | 10.                                      | 350         | Approx                                  | 1                    |         |
|       | 0.61    | plinth for 750 KVA Transformer ( Plinth Should have  | A HARD PROVIDENT                         |             | Cu.Ft                                   |                      |         |
|       | 1.1     | minimum hight of 3 feet)   |  |             |   |                      |         |
| 11    | NSI     | Supplying and making outdoor cable end termination   |  | 2           | Set                                     |                      |         |
|       |         | with heat shrinkable jointing kit complete with all  |  |             |   |                      |         |
|       | 1200    | accessories including lugs suitable for following size of  |  |             |   |                      |         |
|       |         | 3 core,XLPE aluminium conductor cable of 11 KV grade   |  | - 41.164    | and set and the                         |                      |         |
|       |         | as required ( For 90 Sqmm cable )  |  |             |   |                      |         |
| -     | -       | Supplying of 3 core 95 sqmm HT PVC/XLPE insulated  | They are an                              | 25          | mtr                                     |                      |         |
|       |         | PVC sheathed ,heavy duty armoured electrical cable   |  |             |   |                      |         |
|       |         | including 11 volts ( Conforms to IS: 1554 part-1)  |  |             |   |                      |         |
| 14    |         |  |  |             | Fash                                    |                      | ter les |
|       | a       | S/F of Light class G.I Pipe of 100 mm dia.(nominal ) 3   |  | 1           | Each                                    |                      |         |
|       |         | mtrs length along the pole for protection of under   |  |             |   |                      |         |
| -     | b       | ground cable as required.<br>Supplying,Installation,testing and commissioning of                                 | L&T.ABB,L                                | 1           | Nos                                     |                      |         |
|       | D       | cubical type LT Panal suitable for 415 Volts   | egrand,C&                                | 220401      |   |                      |         |
|       |         |  | S  |             |   |                      | ann     |
|       | c       | 1 No 400A, TPN MCCB having breaking capacity 50 KA   | L&T.ABB,L                                | 1           | Nos                                     |                      |         |
|       |         | with fixed Thermal Magnetic based protection with Main   | egrand,C&                                |             |   |                      |         |
|       |         | incomer Interlocking etc.as required.(For 200KVA DG  | S  | 1.1.5       | 1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 |                      |         |
| -     | -       | Set)<br>BUSCOPLER  |  |             |   |                      | 1111    |
|       | -       | 1No 630A 50Ka 4 Pole EDO ACB with interlocked with   | L&T.ABB,L                                | 1           | Nos                                     |                      |         |
|       | d       | main breaker along etc.as required.  | egrand,C&                                |             |   |                      |         |
|       |         | Inalli breaker along etc.as required.  | S S                                      |             |   |                      |         |
| 1     | e       | 1 No 400A, TPN MCCB having breaking capacity 50 KA   |  | 1           | Nos                                     |                      |         |
|       | 6       | with fixed Thermal Magnetic based protection with Main   | egrand,C&                                |             |   | daniel und bath      |         |
|       |         | With had thermal magnetic baces prese  |  |             |   |                      |         |

|     |     | BUSBARS  |   |      | 1 37 |   |   |
|-----|-----|--|---|------|------|---|---|
|     |     | Aluminium bus bars of minimum of 1600mp TPN with<br>suitable length & heat shrinkable coloured sleeves and<br>including BMC/SMC bus bars supports at required<br>interval complete for cross section, side supports and<br>their spacing etc. for withstanding fault level of 31 MVA |   | 1    | set  |   |   |
| -   |     | for 1 sec<br>INDICATING PANEL  |   |      |      |   |   |
| -   | _   | The Indicating panel of the incomer ACB shall be   |   |      |      |   | 1 |
|     |     | provided with the following :  |   |      |      |   |   |
|     | f   | 3 Sets of 3 Nos. of LED phase indication lamps each back up with 2A MCB.   | L&T.<br>Siemens,C<br>&S                     | 3    | set  |   |   |
|     | g   | 3 Sets Multifunction Meter with selecter switch required CT's. with 2A back up MCB   | L&T.<br>Siemens,<br>Schneider,<br>AE,Matrix | 3    | set  |   |   |
|     | h   | 5 Sets of 2 Nos.ON/OFF indicating lamp on incomer<br>feeder for indicating the status of feeder. 1 No. T-N-C<br>breaker control switch. (Trip/Neutral/Close).  |   | 5    | set  |   |   |
|     | I   | 4Nos. 400A, TPN MCCB having breaking capacity 36 KA<br>with fixed Thermal Magnetic based protection.   | L&T.ABB,L<br>egrand,<br>C&S                 | 4    | Nos  | 6 |   |
|     | j   | 4Nos. 250A, TPN MCCB having breaking capacity 36 KA with fixed Thermal Magnetic based protection.  |   | 4    | Nos  |   |   |
| -   | k   | 4Nos. 200A, TPN MCCB having breaking capacity 36 KA with fixed Thermal Magnetic based protection.  |   | 4    | Nos  |   |   |
|     | 1   | 2Nos. 160A, TPN MCCB having breaking capacity 36 KA with fixed Thermal Magnetic based protection.  | L&T.ABB,L<br>egrand,<br>C&S                 | 2    | Nos  |   |   |
| ÷., |     | L.T Cable  |   |      |      |   | - |
| 12  | NSI | Supplying of 3.5 core 300 sq. mm PVC/XLPE insulated<br>PVC sheathed, heavy duty armoured electrical cable<br>including 1100 volts (Conforms to IS: 1554 part-I)  |   | 680  | Mtr  |   |   |
| 13  | NSI | Supplying of 3.5 core 185 sq. mm PVC/XLPE insulated<br>PVC sheathed, heavy duty armoured electrical cable<br>including 1100 volts (Conforms to IS: 1554 part-I)  |   | 574  | Mtr  |   |   |
| 14  | NSI | Supplying of 3.5 core 150 sq. mm PVC/XLPE insulated<br>PVC sheathed, heavy duty armoured electrical cable<br>including 1100 volts (Conforms to IS: 1554 part-I)  | Polaycab,H<br>avells,RR<br>Cable            | 380  | Mtr  |   |   |
| 15  | NSI | Supplying of 3.5 core 120 sq. mm PVC/XLPE insulated<br>PVC sheathed, heavy duty armoured electrical cable<br>including 1100 volts (Conforms to IS: 1554 part-I)  |   | 482  | Mtr  |   |   |
| 16  | NSI | Laying of one number PVC insulated and PVC sheathed /<br>XLPE power cable of 1.1 KV grade of following size direct in<br>ground including excavation, sand cushioning, protective<br>covering and refilling the trench etc as required. (Above 70<br>sq. mm and upto 300 sq. mm)     |   | 2220 | Mtr  |   |   |
| 17  | NSI | Laying of one number PVC insulated and PVC sheathed /<br>XLPE power cable of 1.1 KV grade of following size in the<br>existing RCC/ HUME/ METAL pipe as required. (Above 95<br>sq. mm and upto 185 sq. mm)   |   | 50   | Mtr  |   |   |

| 18 | NSI | Providing, laying and fixing following dia RCC pipe NP2 class |                  | 30      | Mtr           |  |                |
|----|-----|---|------------------|---------|---------------|--|----------------|
|    |     | (light duty) in ground complete with RCC collars, jointing    |                  | 1400    | Tech is       | 1000                                     |                |
|    |     | with cement mortar 1:2 (1 cement : 2 fine sand) including     | 1                | 1000    |               | 1.1.1                                    |                |
|    |     | trenching (75 cm deep) and refilling etc. as required.        | 12.06-010        | 1 1 1 1 |               | 1. |                |
|    |     | 300mm dia   |                  |         |               |  |                |
| 19 | NSI | Providing, laying and fixing following dia G.I. pipe (medium  | 0.51563.5        | 15      | Mtr           | in the second                            |                |
|    |     | class) in ground complete with G.I. fittings including        |                  |         |               | 1  |                |
|    |     | trenching (75 cm deep) and re-filling etc. as required        | Charge St        |         |               | Contraction of the                       |                |
|    |     | 150mm dia   | 1                |         |               | in the second second                     |                |
| 20 | NSI | Supplying of 3.5 core 400 sq. mm PVC/XLPE insulated           |                  | 60      | Mtr           |  |                |
|    |     | PVC sheathed, heavy duty armoured electrical cable            | 212-51 A33777    |         |               |  |                |
|    |     | including 1100 volts (Conforms to IS: 1554 part-I)            | Cable            |         |               |  |                |
| 21 | NSI | Supplying and making indoor end termination with brass        | Polaycab,H       |         |               |  |                |
|    |     | compression gland and aluminium lugs for following size of    | avells,RR        |         | 120210        |  | 100            |
|    |     | PVC insulated and PVC sheathed / XLPE aluminium               | Cable            |         | 1000          |  |                |
|    |     | conductor cable of 1.1 KV grade as required.                  |                  |         |               |  |                |
|    |     |   |                  |         | in the second |  | and the second |
|    | a   | 3½ x 400 sq. mm (82mm)  | Real Property in | 4       | Nos           |  |                |
|    | b   | 3½ x 300 sq. mm (70mm)  |                  | 8       | Nos           |  |                |
|    |     |   |                  |         |               | ina la                                   | 124. 182.      |
|    | с   | 3½ x 185 sq. mm (57mm)  | (Terror)         | 8       | Nos           |  | aut it.        |
|    | d   | 3½ x 150 sq. mm (50mm)  |                  | 8       | Nos           |  |                |
| _  | e   | 3½ x 120 sg. mm (45mm)  |                  | 4       | Nos           |  |                |
|    |     |   |                  | -       | 105           | TER IN ALL                               |                |
| 22 | NSI | Providing and laying earth connection from earth electrode    |                  | 2100    | Mtr           |  |                |
|    |     | with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth    |                  |         |               | 1. St. 1.                                |                |
|    |     | electrode including connection with G.I. thimble excavation   | 1                | 10.4    |               |  |                |
|    |     | and re-filling as required.                                   |                  |         |               |  |                |
|    |     |   | 102 100 100      |         |               | Total Rs                                 | Contract Vinit |