

Sample Format for GSS land assests

GSS: - 132/33 KV GSS, Muzaffarpur

|        |                                                                                                    |                                           |
|--------|----------------------------------------------------------------------------------------------------|-------------------------------------------|
| SL No. | LOCATION                                                                                           | Muzaffarpur                               |
| 01     | Name of Grid Substation                                                                            | 132/33 KV GSS, Muzaffarpur                |
| 02     | Located at (Name of locality)                                                                      | Bhikhanpura, NH28                         |
| 03     | Block/ Prakhand                                                                                    | Mushahari                                 |
| 04     | Police Station (Thana)                                                                             | Sadar Thana,Muzaffarpur                   |
| 05     | Sub-Division                                                                                       | Muzaffarpur                               |
| 06     | District                                                                                           | Muzaffarpur                               |
| 07     | Transmission Division                                                                              | Muzaffarpur                               |
| 08     | Transmission Circle                                                                                | Muzaffarpur                               |
| 09     | GPS Co-ordinates                                                                                   | Latitude: 26.09328<br>Longitude: 85.37921 |
|        | LAND DETAILS                                                                                       |                                           |
| 10     | Initial Area (In Acre)                                                                             | 26 Acre                                   |
| 11     | Whether it was:                                                                                    |                                           |
|        | (i) A Govt. Land(State type GM or )                                                                | -----                                     |
|        | (ii) Private land                                                                                  | Private Land                              |
|        | If Private land, whether                                                                           |                                           |
|        | (i) Purchased                                                                                      | -----                                     |
|        | (ii) Acquired                                                                                      | Acquired                                  |
|        | (iii) Leased Land                                                                                  | -----                                     |
| 12     | Year of Purchase/ Acquisition                                                                      | 1964-65                                   |
| 13     | Whether mutation completed                                                                         | No                                        |
| 14     | Cost of the land (At the time of procurement)                                                      | NA                                        |
| 15     | Whether more land was purchased/acquired/Leased in for GSS Extension work?<br>If yes, Give details | No                                        |
| 16     | Area of the extra land for GSS                                                                     | NA                                        |
| 17     | Cost                                                                                               | NA                                        |
| 18     | Year of Purchase/lease of extra land                                                               | 1964-65                                   |
| 19     | Total Area at present                                                                              | 26 Acre                                   |
|        | Details of Land (Khata/Khesara)                                                                    |                                           |
|        | Thana No.                                                                                          | 340                                       |
|        | Name of Municipality/ Nagar Parishad etc.                                                          | Muzaffarpur                               |
|        | Ward No./Circle No./Holding No.                                                                    | NA                                        |
|        | Amount of Early Land related Taxes                                                                 | NA                                        |
|        | Taxes clear up to                                                                                  | ----                                      |
| 20     | Land Records available with                                                                        | ----                                      |

# Details of Existing Equipment

Name of Circle: Muzaffarpur

Name of Grid Substation: Muzaffarpur

| SL No. | Name of bay                               | Equipment Name                                                            | Quantity                                  | Make                  | Date/Year of Commissioning |
|--------|-------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------|-----------------------|----------------------------|
| 1      | 132 KV MTPS-Muzaffarpur<br>CKT 01         | Line control & relay panel with Distance protection, E/F & O/C protection | 01                                        | SEL-311 C             | 13.01.2018                 |
|        |                                           |                                                                           | 01                                        | SEL-351 A             | 13.01.2018                 |
|        |                                           | 3 phase Circuit Breaker                                                   | 01                                        | CGL                   | 2015                       |
|        |                                           | 1-phase CVT                                                               | NA                                        |                       |                            |
|        |                                           | LA                                                                        | 03                                        | NA                    |                            |
|        |                                           | 1-phase CT                                                                | 03                                        | SCT                   | 05.08.16                   |
|        |                                           | 3 phase isolator with Earth/without Earth switch                          | 02 set without Earth<br>01 with Earth     | Faraday elec.         | 28.09.16                   |
| 2      | 132 KV MTPS-Muzaffarpur<br>CKT 02         | Line control & relay panel with Distance protection, E/F & O/C protection | 01                                        | SEL-311 C             | 18.01.2018                 |
|        |                                           |                                                                           | 01                                        | SEL-351 A             | 18.01.2018                 |
|        |                                           | 3 phase Circuit Breaker                                                   | 01                                        | CGL                   | 2014                       |
|        |                                           | 1-phase CVT                                                               | NA                                        |                       |                            |
|        |                                           | LA                                                                        | 03                                        | NA                    |                            |
|        |                                           | 1-phase CT                                                                | 03                                        | SCT                   | 10.08.16                   |
|        |                                           | 3 phase isolator with Earth/without Earth switch                          | 02 set without Earth<br>01set with Earth  | Faraday elec.         | 29.09.16                   |
| 3      | 132 KV<br>Muzaffarpur –<br>SKMCH          | Line control & relay panel with Distance protection, E/F & O/C protection | 01                                        | SEL-311 C             | 07.01.2018                 |
|        |                                           |                                                                           | 01                                        | SEL-351 A             | 07.01.2018                 |
|        |                                           | 3 phase Circuit Breaker                                                   | 01                                        | SEIMENS               |                            |
|        |                                           | 1-phase CVT                                                               | NA                                        |                       |                            |
|        |                                           | LA                                                                        | 03                                        | NA                    |                            |
|        |                                           | 1-phase CT                                                                | 03                                        | SCT                   | 02.08.16                   |
|        |                                           | 3 phase isolator with Earth/without Earth switch                          | 02 set without Earth<br>01set with Earth  | Faraday elec.         | 01.08.16                   |
| 4      | 132 KV<br>Muzaffarpur-<br>Vaishali CKT 01 | Line control & relay panel with Distance protection, E/F & O/C protection | 01                                        | P442 Schneider Elect. | 18.05.2018                 |
|        |                                           |                                                                           | 01                                        | P142 Schneider Elect. | 18.05.2018                 |
|        |                                           | 3 phase Circuit Breaker                                                   | 01                                        | CGL                   |                            |
|        |                                           | 1-phase CVT                                                               | 03                                        | CGL                   |                            |
|        |                                           | LA                                                                        | 03                                        | 02 Lamco, 01 CGL      |                            |
|        |                                           | 1-phase CT                                                                | 03                                        | SCT                   |                            |
|        |                                           | 3 phase isolator with Earth/without Earth switch                          | 02 set without Earth<br>01 set with Earth | Faraday elec.         |                            |

|   |                                                                                |                                                                                               |                                                    |                                                          |                              |
|---|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|------------------------------|
|   |                                                                                |                                                                                               |                                                    |                                                          |                              |
| 5 | 132 KV<br>Muzaffarpur-<br>Vaishali CKT 02                                      | Line control & relay panel<br>with distance protection,<br>E/F & O/C protection               | 01<br><br>01                                       | P442 Schneider<br>Elect.<br><br>P142 Schneider<br>Elect. | 24.04.2018<br><br>24.04.2018 |
|   |                                                                                | 3 phase Circuit Breaker                                                                       | 01                                                 | CGL                                                      | 2016                         |
|   |                                                                                | 1-phase CVT                                                                                   | 03                                                 | CGL                                                      | 2016                         |
|   |                                                                                | LA                                                                                            | 03                                                 | NA                                                       | 2016                         |
|   |                                                                                | 1-phase CT                                                                                    | 03                                                 | SCT                                                      | 2016                         |
|   |                                                                                | 3 phase isolator with<br>Earth/without Earth switch                                           | 02 set<br>without<br>Earth<br>01 set with<br>Earth | J.D Elect.<br><br>Electrolytes                           | 2016                         |
|   |                                                                                |                                                                                               |                                                    |                                                          |                              |
| 6 | 132 KV Bus-<br>Coupler                                                         | Line control & relay panel<br>with distance protection,<br>E/F & O/C protection               | 01<br><br>01                                       | SEL-311 C<br><br>SEL-351 A                               | 26.02.2018<br><br>26.02.2018 |
|   |                                                                                | 3 phase Circuit Breaker                                                                       | 01                                                 | CGL                                                      | 2015                         |
|   |                                                                                | 1-phase PT                                                                                    | 03                                                 | Siemens                                                  |                              |
|   |                                                                                | LA                                                                                            | NA                                                 |                                                          |                              |
|   |                                                                                | 1-phase CT                                                                                    | 03                                                 | SCT                                                      | 29.07.16                     |
|   |                                                                                | 3 phase isolator with<br>Earth/without Earth switch                                           | 03 set<br>without<br>Earth                         | Faraday elec.                                            | 29.07.16                     |
|   |                                                                                |                                                                                               |                                                    |                                                          |                              |
| 7 | 50 MVA 132/33<br>KV Power<br>Transformer No.<br>01 bay (HV)<br><br>(CGL Make)  | Transformer control &<br>relay panel with<br>Differential protection, E/F<br>& O/C protection | O/C & E/F<br>01<br>Diff relay 01                   | SEL-351 A<br><br>SEL-787                                 | 10.02.2018<br><br>10.02.2018 |
|   |                                                                                | 3 phase Circuit Breaker                                                                       | 01                                                 | CGL                                                      | 2015                         |
|   |                                                                                | LA                                                                                            | 03                                                 | Lamco                                                    | 30.09.16                     |
|   |                                                                                | 1-phase CT                                                                                    | 03                                                 | SCT                                                      | 31.08.16                     |
|   |                                                                                | 3 phase isolator with<br>earth/without earth switch                                           | 03 set<br>without<br>Earth switch                  | Faraday elec.                                            | 30.09.16                     |
|   |                                                                                |                                                                                               |                                                    |                                                          |                              |
| 8 | 50 MVA 132/33<br>KV Power<br>Transformer No.<br>02 bay (HV)<br>(TELK Make)     | Transformer control &<br>relay panel with<br>Differential protection, E/F<br>& O/C protection | O/C & E/F<br>01<br>Diff relay 01                   | SEL-351 A<br><br>SEL-787                                 | 15.02.2018<br><br>15.02.2018 |
|   |                                                                                | 3 phase Circuit Breaker                                                                       | 01                                                 | CGL                                                      | 25.01.17                     |
|   |                                                                                | LA                                                                                            | 03                                                 | Lamco                                                    | 01.10.16                     |
|   |                                                                                | 1-phase CT                                                                                    | 03                                                 | SCT                                                      | 01.09.16                     |
|   |                                                                                | 3 phase isolator with<br>Earth/without Earth switch                                           | 03 set<br>without<br>Earth switch                  | Faraday elec.                                            | 01.10.16                     |
|   |                                                                                |                                                                                               |                                                    |                                                          |                              |
| 9 | 50 MVA 132/33<br>KV Power<br>Transformer No.<br>03 bay (HV)<br>(Bharat Bijlee) | Transformer control &<br>relay panel with<br>Differential protection, E/F<br>& O/C protection | O/C & E/F<br>01<br>Diff relay 01                   | Micom ALSTOM<br><br>P642 ALSTOM                          | 2015<br><br>2015             |
|   |                                                                                | 3 phase Circuit Breaker                                                                       | 01                                                 | CGL                                                      | 2015                         |
|   |                                                                                | LA                                                                                            | 03                                                 | NA                                                       | 2015                         |
|   |                                                                                | 1-phase CT                                                                                    | 03                                                 | SCT                                                      | 2015                         |
|   |                                                                                | 3 phase isolator with<br>/without Earth switch                                                | 03 set<br>without<br>Earth switch                  | NA                                                       | 2015                         |

|    |                      |                                                      |                                                         |               |            |
|----|----------------------|------------------------------------------------------|---------------------------------------------------------|---------------|------------|
|    |                      |                                                      |                                                         |               |            |
| 10 | 33 KV Dholi Feeder   | Line control & relay panel with E/F & O/C protection | 01                                                      | SEL-351 A     | 12.04.2018 |
|    |                      | 3 phase Circuit Breaker                              | 01                                                      | Areva         |            |
|    |                      | LA                                                   | 03                                                      | LAMCO         | 30.08.16   |
|    |                      | 1-phase CT                                           | 03                                                      | SCT           | 23.06.16   |
|    |                      | 3 phase isolator with /without Earth switch          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 23.06.16   |
| 11 | 33 KV Maripur Feeder | Line control & relay panel with E/F & O/C protection | 01                                                      | SEL-351 A     | 29.03.2018 |
|    |                      | 3 phase Circuit Breaker                              | 01                                                      | CGL           | 24.07.16   |
|    |                      | LA                                                   | 03                                                      | LAMCO         | 30.08.16   |
|    |                      | 1-phase CT                                           | 03                                                      | SCT           | 16.07.16   |
|    |                      | 3 phase isolator with/without Earth switch           | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 16.07.16   |
| 12 | 33 KV Marwan Feeder  | Line control & relay panel with E/F & O/C protection | 01                                                      | SEL-351 A     | 27.03.2018 |
|    |                      | 3 phase Circuit Breaker                              | 01                                                      | CGL           |            |
|    |                      | LA                                                   | 03                                                      | LAMCO         | 28.08.16   |
|    |                      | 1-phase CT                                           | 03                                                      | SCT           | 20.07.16   |
|    |                      | 3 phase isolator with /without Earth switch          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 20.07.16   |
| 13 | 33 KV Dairy          | Line control & relay panel with E/F & O/C protection | 01                                                      | SEL-351 A     | 21.03.2018 |
|    |                      | 3 phase Circuit Breaker                              | 01                                                      | CGL           | 02.07.16   |
|    |                      | LA                                                   | 03                                                      | LAMCO         | 2016       |
|    |                      | 1-phase CT                                           | 03                                                      | SCT           | 02.07.16   |
|    |                      | 3 phase isolator with /without Earth switch          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 02.07.16   |
| 14 | 33 KV Railway Feeder | Line control & relay panel with E/F & O/C protection | 01                                                      | SEL-351 A     | 22.05.2018 |
|    |                      | 3 phase Circuit Breaker                              | 01                                                      | Seimens       |            |
|    |                      | LA                                                   | 03                                                      | LAMCO         | 29.08.16   |
|    |                      | 1-phase CT                                           | 03                                                      | SCT           | 26.07.16   |
|    |                      | 3 phase isolator with /without Earth switch          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 2016       |
|    |                      |                                                      |                                                         |               |            |

|    |                          |                                                      |                                                         |               |            |
|----|--------------------------|------------------------------------------------------|---------------------------------------------------------|---------------|------------|
|    |                          |                                                      |                                                         |               |            |
| 15 | 33 KV Kurhani            | Line control & relay panel with E/F & O/C protection | 01                                                      | SEL-351 A     | 24.03.2018 |
|    |                          | 3 phase Circuit Breaker                              | 01                                                      | Seimens       |            |
|    |                          | LA                                                   | 03                                                      | LAMCO         | 2016       |
|    |                          | 1-phase CT                                           | 03                                                      | SCT           | 2016       |
|    |                          | 3 phase isolator with /without Earth switch          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 2016       |
| 16 | 33 KV Bhikhanpura Feeder | Line control & relay panel with E/F & O/C protection | 01                                                      | SEL-351 A     | 03.04.2018 |
|    |                          | 3 phase Circuit Breaker                              | 01                                                      | CGL           |            |
|    |                          | LA                                                   | 03                                                      | LAMCO         | 31.08.16   |
|    |                          | 1-phase CT                                           | 03                                                      | SCT           | 13.07.16   |
|    |                          | 3 phase isolator with /without Earth switch          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 13.07.16   |
| 17 | 33 KV Khabra feeder      | Line control & relay panel with E/F & O/C protection | 01                                                      | SEL-351 A     | 17.04.2018 |
|    |                          | 3 phase Circuit Breaker                              | 01                                                      | STELMEC       | 2015       |
|    |                          | LA                                                   | 03                                                      | LAMCO         | 31.08.16   |
|    |                          | 1-phase CT                                           | 03                                                      | SCT           | 11.07.16   |
|    |                          | 3 phase isolator with /without Earth switch          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 11.07.16   |
| 18 | 33 KV Nayatola           | Line control & relay panel with E/F & O/C protection | 01                                                      | SEL-351 A     | 21.05.2018 |
|    |                          | 3 phase Circuit Breaker                              | 01                                                      | CGL           | 01.07.16   |
|    |                          | LA                                                   | 03                                                      | LAMCO         | 20.09.16   |
|    |                          | 1-phase CT                                           | 03                                                      | SCT           | 01.07.16   |
|    |                          | 3 phase isolator with /without Earth switch          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 01.07.16   |
| 19 | 33 KV IDPL               | Line control & relay panel with E/F & O/C protection | 01                                                      | SEL-351 A     | 04.04.2018 |
|    |                          | 3 phase Circuit Breaker                              | 01                                                      | CGL           | 21.07.16   |
|    |                          | LA                                                   | 03                                                      | LAMCO         | 28.08.16   |
|    |                          | 1-phase CT                                           | 03                                                      | SCT           | 21.07.16   |
|    |                          | 3 phase isolator with earth/without Earth switch     | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 25.06.16   |

|    |                                                    |                                                                                      |                                                         |               |            |
|----|----------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------|---------------|------------|
| 20 | 33 KV Kanti                                        | Line control & relay panel with E/F & O/C protection                                 | 01                                                      | SEL-351 A     | 30.03.2018 |
|    |                                                    | 3 phase Circuit Breaker                                                              | 01                                                      | CGL           | 08.07.16   |
|    |                                                    | LA                                                                                   | 03                                                      | LAMCO         | 28.08.16   |
|    |                                                    | 1-phase CT                                                                           | 03                                                      | SCT           | 08.07.16   |
|    |                                                    | 3 phase isolator with /without Earth switch                                          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 08.07.16   |
| 21 | 33 KV Bus-Coupler                                  | Line control & relay panel with distance protection, E/F & O/F protection            | 01                                                      | SEL-351 A     | 20.03.2018 |
|    |                                                    | 3 phase Circuit Breaker                                                              | 01                                                      | CGL           | 2016       |
|    |                                                    | LA                                                                                   | NA                                                      |               |            |
|    |                                                    | 1 phase PT                                                                           | 03                                                      | SCT           | 2018       |
|    |                                                    | 1-phase CT                                                                           | 03                                                      | SCT           | 22.06.2016 |
|    |                                                    | 3 phase isolator with /without Earth switch                                          | 03 set without earth switch                             | Faraday elec. | 22.06.2016 |
| 22 | 50 MVA 132/33 KV Power Transformer No. 01 bay (LV) | Transformer control & relay panel with differential protection, E/F & O/C protection | O/C, E/F 01                                             | SEL-351 A     | 10.02.2018 |
|    |                                                    | 3 phase Circuit Breaker                                                              | 01                                                      | STELMEC       | 2015       |
|    |                                                    | LA                                                                                   | 03                                                      | LAMCO         | 2018       |
|    |                                                    | 1-phase CT                                                                           | 03                                                      | SCT           | 2016       |
|    |                                                    | 3 phase isolator with /without Earth switch                                          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 2016       |
| 23 | 50 MVA 132/33 KV Power Transformer No. 02 bay (LV) | Transformer control & relay panel with differential protection, E/F & O/C protection | O/C, E/F 01                                             | SEL-351 A     | 15.02.2018 |
|    |                                                    | 3 phase Circuit Breaker                                                              | 01                                                      | AREVA         | NA         |
|    |                                                    | LA                                                                                   | 03                                                      | LAMCO         | 2018       |
|    |                                                    | 1-phase CT                                                                           | 03                                                      | SCT           | 27.09.16   |
|    |                                                    | 3 phase isolator with /without Earth switch                                          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 27.09.16   |
| 24 | 50 MVA 132/33 KV Power Transformer No. 03 bay (LV) | Transformer control & relay panel with differential protection, E/F & O/C protection | O/C, E/F 01                                             | Micom ALSTOM  | 2015       |
|    |                                                    | 3 phase Circuit Breaker                                                              | 01                                                      | CGL           | 2015       |
|    |                                                    | LA                                                                                   | 03                                                      | LAMCO         | 2015       |
|    |                                                    | 1-phase CT                                                                           | 03                                                      | SCT           | 2016       |
|    |                                                    | 3 phase isolator with /without Earth switch                                          | 02 set without earth switch<br>01 set with earth switch | Faraday elec. | 2016       |

Other Substation Equipments:

| SL No. |                                                  | Make                                      | Quantity            | Date/Year of Commissioning       |
|--------|--------------------------------------------------|-------------------------------------------|---------------------|----------------------------------|
| 1      | Battery Charger no. 1                            | AMARA RAJA                                | 01 No               | 2016                             |
|        | 2                                                | Chloride                                  | 01 No               | 2018                             |
| 2      | ACDB                                             | Asian Switchgear Pvt Ltd.                 | 01 No               | 2018                             |
|        | DCDB                                             | Asian Switchgear Pvt Ltd.                 | 01 No               | 2018                             |
| 3      | DCDB (110V/48 V)                                 | NA                                        |                     |                                  |
| 4      | Battery Bank 1 set                               | Exide 2V 200 AH                           | 112 Nos.            | 2016                             |
|        | 1 set                                            | Exide 2V 300 AH                           | 112 Nos.            | 2018                             |
|        | 1 set                                            | HBL 2V 200 AH                             | 24 Nos.             | 2018                             |
| 5      | DG SET                                           | NA                                        |                     |                                  |
| 6      | PLCC Equipment                                   | 1 isolator                                | NA                  |                                  |
|        |                                                  | 2 Battery Charger                         | Eltek SGS. Pvt ltd. | 01 No                            |
|        |                                                  | 3 Panel                                   | ABB                 | 02 No                            |
|        |                                                  | CGL                                       | 03 No               | 2018                             |
|        |                                                  | Puncom                                    | 01 No               | 2018                             |
|        |                                                  | 4 Telephone                               | ABB                 | 01 No                            |
| 7      | Hydrant system with pipe arrangement             | NA                                        |                     |                                  |
| 8      | Fire Fighting equipment                          | KANEX Pvt Ltd.<br>Gunnebo India ltd.      | 25 Nos.             |                                  |
| 9      | Earthing rods                                    |                                           | 04 sets             |                                  |
| 10     | Tools & Tackles(spanners,wrench) etc (Set/Piece) | TAPARIA                                   | 20 Nos.             |                                  |
| 11     | Testing Equipments                               | Relay test kit (Make Kingsine)            | 01                  |                                  |
|        |                                                  | OFF Line Fault locator (Make Taurus)      | 01                  |                                  |
|        |                                                  | Footing Earth Resistance Kit(Make Taurus) | 01                  |                                  |
|        |                                                  | Thermo vision Camera (FLIR)               | 01                  |                                  |
|        |                                                  | Digital Multimeter (Motwane make)         | 01                  |                                  |
| 12     | Safety Gear(Helmet,gloves,boot, etc)             | Boots (Make Duckback)                     | 10 Nos.             |                                  |
| 13     | SST                                              | East India Udyog                          | 02 Nos.             | SST No. 01 NA<br>SST No. 02 2017 |
| 14     | Spare Hardware fitting.                          | 02 set                                    | NA                  | NA                               |

Assistant Executive Engineer  
Transmission Subdivision, Muzaffarpur

Energy Consumption:-

| Name of GSS | Whether metered connection taken to measure auxiliary consumption, if so, provide details with service connection number | Annual consumption and electricity charges towards auxiliary consumption. | Whether separate metered connection taken to measure colony consumption, if so, provide details with service connection number. | Annual consumption and electricity charges towards colony consumption. |
|-------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Muzaffarpur | Meter No:- NBPD2941                                                                                                      | 28140 KWH                                                                 | No                                                                                                                              | No                                                                     |

Assistant Executive Engineer  
Transmission Subdivision, Muzaffarpur



U.O.I. No. 125  
Date 06/11/2018

Buff Sheet

CE, Trans. (O&M)  
BSPTCL, Patna

Sub.: Status of compliance on the directives issued by the Hon'ble  
BERC in the Tariff Order - 2018-19.

- Ref.: 1. Letter No.- BERC-corr./Directive-09/18-850; Dated - 24/07/18  
2. Letter No. - BERC-Corr./Directive-09/18-942; Dated-09/08/18  
3. Letter No. - BERC-Corr./Directive-12/18-1258; Dated-29/10/18

In reference to above, the Hon'ble BERC issued directives in Tariff Order  
FY 2018-19 seeking compliance report at the earliest.

The following directives are related to Trans. (O&M) wing of BSPTCL:

| S.No.          | Directive                                                                                  | Subject                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Status of compliance |
|----------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1.             | Directive 6:<br>Maintenance<br>of<br>asset/property<br>Register<br><br>G.S.S<br>S. Komashi | The Commission has observed that the petitioner has submitted the details of equipment available at various substations in the form of scan copy/excel sheet. No details for lines were furnished. The equipment details furnished do not depict the value i.e. cost of equipment and other details. The property register should contain all the details of equipment available at the location i.e. substation, etc showing the details of nature of equipments, year of installation, value, rate of depreciation, depreciation (year on year as well as the accumulated depreciation), residual value, whether the equipment is in working condition or not, etc. The Commission directs BSPTCL to submit the property register showing all the particulars by 30 <sup>th</sup> September, 2018. | Yes                  |
| New Directives |                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |
| 1.             |                                                                                            | Regulation 73 (3) of the BERC (Terms and Conditions for Determination of Tariff) Regulations 2007 specifies:<br>Norms for operation and maintenance expenses per Ckt.-Km and per bay shall be as under:<br>(a) The commission shall, for the purpose of fixing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |

Assist. Executive Engineer  
Transmission Sub Division  
Siemahi

2018/11/11 19:26

normative rates for operation & maintenance expenses, study the O&M expenses incurred over the last 4 to 5 years and fixed appropriate rates per Ckt-km of transmission line and per bay. The norms so fixed for 2008-09 shall be escalated at 4% per annum.

(b) The total allowable O&M expenses for a transmission licensee shall be calculated by multiplying the number of bays and Ckt-km of line length with the application norms for O&M expenses per bay and per Ckt-km respectively.

The Commission, directs the BSPICL to ensure filing of the tariff petition for next MYT control period i.e. from FY 2019-20 to FY 2021-22 proposing the norms for O&M expenses in accordance with regulation 73 (3).

2. The transmission licensees are obligated under the Regulation to take separate electric connection from distribution licensees for use of electricity within the grid sub-station and the electricity charges of such connection shall be booked under Administrative & General expenses and shall be pass through in the tariff. Such expenses shall not contain any electricity charges towards colony consumption.

Consumption and colony consumption in the format prescribed hereunder:

| Name of GSS | Whether metered connection taken to measure auxiliary consumption, if so, provide details with service connection number | Annual consumption and electricity charges towards auxiliary consumption | Whether separate metered connection taken to measure colony consumption, if so, provide details with service connection number | Annual consumption and electricity charges towards colony consumption |
|-------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Skimrah     | Yes                                                                                                                      | meters                                                                   | Nb                                                                                                                             | Nb                                                                    |
| 40136478    | not working                                                                                                              |                                                                          |                                                                                                                                |                                                                       |

The compliance report of the directives needs to be submitted to Hon'ble BERC and hence, it is requested to provide the report at the earliest to the undersigned.

*Sankhy*  
 Assistant Executive Engineer  
 Transmission Sub Division  
 Sitamanti

*Rakesh*  
 06.11.2018  
 (Rakesh) 06.11.2018  
 Chief Engineer (Power Management Cell)

| Sl. No. | Name of Bay                          | Equipment Name                                                             | Quantity | Make                                     | Date of Commissioning |
|---------|--------------------------------------|----------------------------------------------------------------------------|----------|------------------------------------------|-----------------------|
| 1.      | 132 KV Musahar-1 CKT Bay             | Line control & relay panel with distance protection & O/C & E/F protection | 01       | SEL                                      | 02.07.16              |
|         |                                      | 3-phase Circuit Breaker                                                    | 01       | CGL                                      |                       |
|         |                                      | 1-ph CVT                                                                   | 03       | CGL                                      |                       |
|         |                                      | LA                                                                         | 03       | LAMCO                                    |                       |
|         |                                      | 1-ph current transformer                                                   | 03       | SCT limited                              |                       |
|         |                                      | 3-ph isolator with/without earth switch                                    | 03       | Siemens                                  |                       |
| 2.      | 132 KV RUNNISAI DPUR – SITAMARHI bay | Line control & relay panel with distance protection & O/C & E/F protection | 01       | SYSTEM CONTROL & AUTOMATION PVT. LTD.    | 11.04.17              |
|         |                                      | 3-phase Circuit Breaker                                                    | 01       | Siemens                                  |                       |
|         |                                      | 1-ph CVT                                                                   | 03       | Siemens                                  |                       |
|         |                                      | LA                                                                         | 03       | Electrolites                             |                       |
|         |                                      | 1-ph current transformer                                                   | 03       | SCT limited                              |                       |
|         |                                      | 3-ph isolator with/without earth switch                                    | 03       | Electrolites                             |                       |
| 3.      | 132 KV DHAKA-1 bay                   | Line control & relay panel with distance protection & O/C & E/F protection | 01       | SEL                                      | 20.06.16              |
|         |                                      | 3-phase Circuit Breaker                                                    | 01       | Siemens                                  |                       |
|         |                                      | 1-ph CVT                                                                   | 03       | Alstom                                   |                       |
|         |                                      | LA                                                                         | 03       | CGL                                      |                       |
|         |                                      | 1-ph current transformer                                                   | 03       | SCT                                      |                       |
|         |                                      | 3-ph isolator with/without earth switch                                    | 03       | SwitchGear& Structural (India) Pvt. Ltd. |                       |
| 4.      | 132 KV SHEOHAR bay                   | Line control & relay panel with distance protection & O/C & E/F protection | 01       | CGL                                      | 09.08.16              |
|         |                                      | 3-phase Circuit Breaker                                                    | 01       | CGL                                      |                       |
|         |                                      | 1-ph CVT                                                                   | 03       | CGL                                      |                       |
|         |                                      | LA                                                                         | 03       | CGL                                      |                       |
|         |                                      | 1-ph current transformer                                                   | 03       | SCT                                      |                       |
|         |                                      | 3-ph isolator with/without earth switch                                    | 03       | ELECTROLITES                             |                       |
| 5.      | 50 MVA Transformer No-1 (ECE) Bay    | Line control & relay panel with distance protection & O/C & E/F protection | 01       | SEL                                      | 27.07.16              |
|         |                                      | 3-phase Circuit Breaker                                                    | 01       | Siemens                                  |                       |
|         |                                      |                                                                            |          |                                          | 09.10.18              |

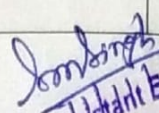
18  
 Assistant Executive Engineer  
 Transmission Sub Division  
 Sitamarhi



|     |                                         |                                                                            |    |                                     |                                                      |
|-----|-----------------------------------------|----------------------------------------------------------------------------|----|-------------------------------------|------------------------------------------------------|
|     |                                         | 1-ph CVT                                                                   | 00 |                                     |                                                      |
|     |                                         | LA                                                                         | 03 | LAMCO                               | 05.07.16                                             |
|     |                                         | 1-ph current transformer                                                   | 03 | SCT                                 | 07.10.15                                             |
|     |                                         | 3-ph isolator with/without earth switch                                    | 03 | Siemens                             | 03.10.15(TRAN.BUS)<br>05.11.15(LINE)<br>30.11.15(MB) |
| 6.  | 50 MVA Transformer No-II (KANO HAR) Bay | Line control & relay panel with distance protection & O/C & E/F protection | 01 | VENSON ELECTRIC                     | 23.06.15                                             |
|     |                                         | 3-phase Circuit Breaker                                                    | 01 | Siemens                             | -Do-                                                 |
|     |                                         | 1-ph CVT                                                                   | 00 |                                     |                                                      |
|     |                                         | LA                                                                         | 03 | LAMCO                               | -Do-                                                 |
|     |                                         | 1-ph current transformer                                                   | 03 | HEPTACARE POWER INDUSTRIES (P) LTD  | -Do-                                                 |
|     |                                         | 3-ph isolator with/without earth switch                                    | 03 | Siemens                             | 02.10.15                                             |
| 7.  | 50 MVA Transformer No-III (BBL) Bay     | Line control & relay panel with distance protection & O/C & E/F protection | 01 | ALSTOM                              | 25.09.14                                             |
|     |                                         | 3-phase Circuit Breaker                                                    | 01 | ALSTOM                              | -DO-                                                 |
|     |                                         | 1-ph CVT                                                                   | 00 |                                     |                                                      |
|     |                                         | LA                                                                         | 03 | LAMCO                               | -DO-                                                 |
|     |                                         | 1-ph current transformer                                                   | 03 | SCT                                 | -DO-                                                 |
|     |                                         | 3-ph isolator with/without earth switch                                    | 03 | ELECTROLITES                        | -DO-                                                 |
| 8.  | 132 KV Bus Coupler                      | Line control & relay panel with distance protection & O/C & E/F protection | 01 | SEL                                 | 03.09.16                                             |
|     |                                         | 3-phase CKT BRK                                                            | 01 | Siemens                             | 09.10.15                                             |
|     |                                         | 1-ph PT                                                                    | 03 | SCT                                 | 09.10.15                                             |
|     |                                         | LA                                                                         | 00 |                                     |                                                      |
|     |                                         | 1-ph current transformer                                                   | 03 | SCT                                 | 25.12.15                                             |
|     |                                         | 3-ph isolator with/without earth switch                                    | 03 | Siemens                             | 09.10.15                                             |
| 9.  | 33 KV SUPPI                             | Line control & relay panel with distance protection & O/C & E/F protection | 01 | SEL                                 | 19.03.16                                             |
|     |                                         | 3-phase Circuit Breaker                                                    | 01 | Schneider                           | 24.09.15                                             |
|     |                                         | 1-ph CVT                                                                   | 00 |                                     |                                                      |
|     |                                         | LA                                                                         | 03 |                                     |                                                      |
|     |                                         | 1-ph current transformer                                                   | 03 | SCT                                 |                                                      |
|     |                                         | 3-ph isolator with/without earth switch                                    | 03 | PROJECT ELECTRIC INDUSTRIES PVT LTD | 13.06.16                                             |
| 10. | 33 PARIHAR                              | Line control & relay panel with distance                                   | 01 | SEL                                 |                                                      |

*Sanjay*  
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Assistant Executive Engineer  
Transmission Sub Division  
Sitamarhi

|     |                                           |                                                                            |          |                                         |                |
|-----|-------------------------------------------|----------------------------------------------------------------------------|----------|-----------------------------------------|----------------|
|     |                                           | protection & O/C & E/F protection                                          |          |                                         |                |
|     |                                           | 3-phase Circuit Breaker                                                    | 01       | SCHNEIDER                               |                |
|     |                                           | 1-ph CVT                                                                   | 00       |                                         |                |
|     |                                           | LA                                                                         | 03       | LAMCO                                   | 14.12.15       |
|     |                                           | 1-ph current transformer                                                   | 03       | SCT                                     |                |
|     |                                           | 3-ph isolator with/without earth switch                                    | 03       | FARADAY ELECTRICALS                     | 16.12.15       |
| 11. | 33 KV BATHNAHA                            | Line control & relay panel with distance protection & O/C & E/F protection | 01       | MEGAWIN SWITCHGEAR                      |                |
|     |                                           | 3-phase Circuit Breaker                                                    | 01       | SCHNEIDER                               |                |
|     |                                           | 1-ph CVT                                                                   | 00       |                                         |                |
|     |                                           | LA                                                                         | 03       | Not visible                             |                |
|     |                                           | 1-ph current transformer                                                   | 03       | SCT                                     | 11.09.15       |
|     |                                           | 3-ph isolator with/without earth switch                                    | 03       | PROJECT ELECTRICALS INDUSTRIES PVT LTD  |                |
| 12. | 33KV Radhour (Previously Nepal, Jaleswar) | Line control & relay panel with distance protection & O/C & E/F protection | 01       | SEL                                     | Under R&M 2016 |
|     |                                           | 3-phase Circuit Breaker                                                    | 01       | CGL                                     | 28.06.12       |
|     |                                           | 1-ph CVT                                                                   | 00       |                                         |                |
|     |                                           | LA                                                                         | 03       | LAMCO                                   |                |
|     |                                           | 1-ph current transformer                                                   | 03       | MEHRU                                   |                |
|     |                                           | 3-ph isolator with/without earth switch                                    | 01<br>02 | FARADAY ELECTRIC SWITCHGEAR & STRUCTURE | 18.12.15       |
| 13. | 33 KV Bus Coupler                         | Line control & relay panel with distance protection & O/C & E/F protection | 01       | SEL                                     | 15.03.16       |
|     |                                           | 3-phase Circuit Breaker                                                    | 01       | SCHNEIDER                               | 12.09.15       |
|     |                                           | 1-ph CVT                                                                   | 03       | SCT                                     |                |
|     |                                           | LA                                                                         | 00       |                                         |                |
|     |                                           | 1-ph current transformer                                                   | 03       | SCT                                     |                |
|     |                                           | 3-ph isolator with/without earth switch                                    | 01<br>02 | ELECTROLITES<br>FARADAY ELECTRICALS     | 17.12.15       |
| 14. | 33 KV SITAMARHI                           | Line control & relay panel with distance protection & O/C & E/F protection | 01       | SEL                                     | 18.03.16       |
|     |                                           | 3-phase Circuit Breaker                                                    | 01       | SCHNEIDER                               | 28.09.15       |
|     |                                           | 1-ph CVT                                                                   | 00       |                                         |                |
|     |                                           | LA                                                                         | 03       | LAMCO                                   | 15.12.15       |
|     |                                           | 1-ph current transformer                                                   | 01<br>02 | SCT<br>ADVENT ENGINEER                  |                |
|     |                                           | 3-ph isolator with/without earth switch                                    | 03       | FARADAY ELECTRICALS                     | 16.12.15       |
| 15. | 33 KV PUPRI                               | Line control & relay panel with distance                                   | 01       | SEL                                     |                |

  
 Assistant Executive Engineer  
 Transmission Sub Division  
 Sitamarhi



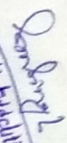
|     |                    |                                                                            |          |                                     |                   |
|-----|--------------------|----------------------------------------------------------------------------|----------|-------------------------------------|-------------------|
|     |                    | protection & O/C & E/F protection                                          |          |                                     |                   |
|     |                    | 3-phase Circuit Breaker                                                    | 01       | SCHNEIDER                           | 20.09.15          |
|     |                    | 1-ph CVT                                                                   | 00       |                                     |                   |
|     |                    | LA                                                                         | 03       | LAMCO                               | 14.12.15          |
|     |                    | 1-ph current transformer                                                   | 03       | SCT                                 | 20.09.15          |
|     |                    | 3-ph isolator with/without earth switch                                    | 03       | FARADAY ELECTRICALS                 | 14.12.15          |
| 16. | 33KV SHEOHAR       | Line control & relay panel with distance protection & O/C & E/F protection | 01       | SEL                                 | 16.03.16          |
|     |                    | 3-phase Circuit Breaker                                                    | 01       | SCHNEIDER                           | 15.09.15          |
|     |                    | 1-ph CVT                                                                   | 0        |                                     |                   |
|     |                    | LA                                                                         | 03       | LAMCO                               | 14.12.15          |
|     |                    | 1-ph current transformer                                                   | 03       | SCT                                 | 15.09.15          |
|     |                    | 3-ph isolator with/without earth switch                                    | 03       | FARADAY ELECTRICALS                 | 14.12.15          |
| 17. | 33 KV ICT-1        | Line control & relay panel with distance protection & O/C & E/F protection | 01       | SEL                                 | 06.09.16          |
|     |                    | 3-phase Circuit Breaker                                                    | 01       | SCHNEIDER                           |                   |
|     |                    | 1-ph CVT                                                                   | 00       |                                     |                   |
|     |                    | LA                                                                         | 03       | LAMCO                               | 15.12.15          |
|     |                    | 1-ph current transformer                                                   | 03       | SCT                                 | 07.10.15          |
|     |                    | 3-ph isolator with/without earth switch                                    | 01<br>02 | ELECTROLITES<br>FARADAY ELECTRICALS | 12.12.15          |
| 18. | 33 KV ICT-2        | Line control & relay panel with distance protection & O/C & E/F protection | 01       | VENSON ELECTRC                      | 27.08.16          |
|     |                    | 3-phase Circuit Breaker                                                    | 01       | SCHNEIDER                           | 16.09.15          |
|     |                    | 1-ph CVT                                                                   | 00       |                                     |                   |
|     |                    | LA                                                                         | 03       | LAMCO                               |                   |
|     |                    | 1-ph current transformer                                                   | 03       |                                     |                   |
|     |                    | 3-ph isolator with/without earth switch                                    | 01<br>02 | ELECTROLITES<br>FARADAY ELECTRICALS |                   |
| 19. | 33 KV ICT-3        | Line control & relay panel with distance protection & O/C & E/F protection | 01       | ALSTOM                              | 29.08.16          |
|     |                    | 3-phase Circuit Breaker                                                    | 01       | CGL                                 |                   |
|     |                    | 1-ph CVT                                                                   | 00       |                                     |                   |
|     |                    | LA                                                                         | 03       | Elektrolite                         | B- phase,19.10.18 |
|     |                    | 1-ph current transformer                                                   | 03       | SCT                                 |                   |
|     |                    | 3-ph isolator with/without earth switch                                    | 03       | ELECTROLITES                        |                   |
| 20. | 33 KV RUNNISAIDPUR | Line control & relay panel with distance protection & O/C & E/F            | 01       | SEL                                 | 30.08.16          |

*Sanjay*  
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Assistant Executive Engineer  
Transmission Sub Division  
Amrahi

|                                         |    |                          |          |
|-----------------------------------------|----|--------------------------|----------|
| protection                              | 01 | NOT IN WORKING CONDITION |          |
| 3-phase Circuit Breaker                 | 01 |                          |          |
| 1-ph CVT                                | 00 |                          |          |
| LA                                      | 03 | LAMCO                    |          |
| 1-ph current transformer                | 03 | SCT                      |          |
| 3-ph isolator with/without earth switch | 03 | FARADAY ELECTRICALS      | 03.03.16 |

#### Other Substation Equipments -

|                                                   |                    |          |        |                                                                                        |                             |
|---------------------------------------------------|--------------------|----------|--------|----------------------------------------------------------------------------------------|-----------------------------|
| Battery Charger                                   | 1                  | 250 Volt | 01 no  | Amra raja                                                                              | on dated 06/09/18           |
|                                                   | 2                  | 48 Volts | 01 nos | Amra raja                                                                              | on dated 06/09/19           |
| ACDB                                              |                    |          | 01 NO  | asianswchgear                                                                          | in year 2018 Under R&M work |
| DCDB(250V/48V)                                    |                    |          | 01 no  | asianswchgear                                                                          | NA                          |
| Battery bank                                      | 1                  | 250 volt | 01 no  | TAURUS                                                                                 | on dated 03/07/2014         |
|                                                   | 2                  | 48 Volts | 01 no  | Exide powersafe                                                                        | in 2015                     |
| DG set                                            |                    |          | Nil    |                                                                                        |                             |
| PLCC Equipment                                    | 1. Isolator        |          | Nil    |                                                                                        |                             |
|                                                   | 2. Battery Charger |          | 01 no  | Gujrat plug-in device Pvt ltd                                                          | in 03/2018                  |
|                                                   | 3. Panel           |          | 02 nos | ABB                                                                                    | in 03/2018                  |
|                                                   | 4. telephone       |          | 01 no  | Alkatel lucent                                                                         | Not installed               |
| Hydrant system with Pipe arrangement              |                    |          | Nil    |                                                                                        |                             |
| Fire Fighting Equipment                           |                    |          | 13 no  | 06 no 22.5kg Co2, 10kg CO2 type 01 no, 02kg CO2 type 01 no DCP type 1kg Cylinder 05 no | Kanex make                  |
| Earthing Rods                                     |                    |          | 02 set | Agri fiber board ltd                                                                   | in 2015                     |
| Tools & Tackles(Spanners, Wrench, etc.(Set/Piece) |                    |          | 01 set | Taparia                                                                                | NA                          |

  
 Assistant Engineer  
 Transmission Sub Division  
 Tatanagarh



|  |                                       |           |                                                                             |          |
|--|---------------------------------------|-----------|-----------------------------------------------------------------------------|----------|
|  | Testing Equipments                    | 04<br>nos | 1 multimeter, 1<br>tongue tester 1<br>fault<br>locator, 2.5<br>kvhamdmegger | in 2015  |
|  | Safety Gear(Helmet,Gloves,Boot, etc.) | 02<br>set | helmet-<br>aktion,Gloves-<br>Kavach,Boot-<br>Aktion                         | NA       |
|  | SST                                   | 01 no     | TBEA                                                                        | 20.08.17 |
|  | Spare Hardware Fitting.               | 02<br>set | NA                                                                          | NA       |

*Sanjay*  
11/11/18  
AEE

TSD SITAMARHI  
Assistant Executive Engineer  
Transmission Sub Division  
Sitamarhi



# Sample format for GSS land assets

**GSS:- 132/33kv GSS Sitamarhi**

|    |                                                                                                      |                                                                                                                                                |
|----|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>LOCATION</b>                                                                                      |                                                                                                                                                |
| 01 | Name of GSS                                                                                          | Sitamarhi                                                                                                                                      |
| 02 | Located at ( Name of locality)                                                                       | 132/33kv Gss Sitamarhi                                                                                                                         |
| 03 | Block/Prakhand                                                                                       | Sitamarhi Dumra                                                                                                                                |
| 04 | Police Station (Thana)                                                                               | Dumra                                                                                                                                          |
| 05 | Sub-Division                                                                                         | Old Sitamarhi(no352) New Dumra(                                                                                                                |
| 06 | District                                                                                             | Sitamarhi                                                                                                                                      |
| 07 | Transmission Division                                                                                | Sitamarhi                                                                                                                                      |
| 08 | Transmission Circle                                                                                  | Muzaffarpur                                                                                                                                    |
| 09 | GPS Co-ordinates                                                                                     | 26.554465,85.524080                                                                                                                            |
|    | <b>LAND DETAILS</b>                                                                                  |                                                                                                                                                |
| 10 | Initial Area (In Acre)                                                                               | 8.78                                                                                                                                           |
| 11 | Whether it was:                                                                                      |                                                                                                                                                |
|    | (i) A Govt. Land (State type GM or )                                                                 |                                                                                                                                                |
|    | (ii) Private Land                                                                                    | Private Land                                                                                                                                   |
|    | If Private Land, Whether                                                                             |                                                                                                                                                |
|    | (i) Purchased                                                                                        |                                                                                                                                                |
|    | (ii) Acquired                                                                                        | Acquired                                                                                                                                       |
|    | (iii) Leased Land                                                                                    |                                                                                                                                                |
| 12 | Year of Purchase/Acquisition                                                                         | 1976                                                                                                                                           |
| 13 | Whether mutation completed                                                                           | Not                                                                                                                                            |
| 14 | Cost of the Land (At the time of procurement)                                                        | RS-373959.68                                                                                                                                   |
| 15 | Whether more land was purchased /acquired/ Leased in for GSS Extension work?<br>If yes, Give details | No                                                                                                                                             |
| 16 | Area of the extra land for GSS                                                                       | Nil                                                                                                                                            |
| 17 | Cost                                                                                                 | Nil                                                                                                                                            |
| 20 | Year of Purchase/lease of extra land                                                                 | Nil                                                                                                                                            |
| 21 | Total area at present                                                                                | 08.78                                                                                                                                          |
|    | Details of Land (Khata/Khesara)                                                                      | Khata no 35,128,138,102,158. Khesara no 144,145,151,146,147,148,149,150,152,154. Land acquisition no 1,2,3,3A,4,5,6,6A,7,7A,8,9,9A,10,11,12,13 |
|    | Thana No.                                                                                            | 352                                                                                                                                            |
|    | Name of Municipality/Nagar Parishad etc.                                                             | Dumra(Sitamarhi)                                                                                                                               |
|    | Ward No./Circle No./ Holding No.                                                                     | 08                                                                                                                                             |

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|    |                                    |                                                                                                                                      |
|----|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|    | Amount of Early Land related Taxes | as per khatian Rs 24045.61 in Sudh ki rasi, Rs 636.40 in Malgujari, and Rs 19932.08 in Aakasmik & sthapna ,total expence Rs 44614.09 |
|    | Taxes clear up to                  | NA                                                                                                                                   |
| 22 | Land Records available with        | Khatian & Value statement of Land Acquisition Department Sitamarhi                                                                   |

*Singh Kumar*  
10/11/18

JEE, TSD  
sitamarhi

*Joshi*  
10/11/18  
Assistant Executive Engineer  
Transmission Sub Division  
Sitamarhi



### Details of Existing Equipment

Name of Circle: Muzaffarpur

Name of GSS: Thakrahan

| Sl. No. |                                | Name of Bay | Equipment Name                                                                      | Quantity | Make | Date of Commissioning |
|---------|--------------------------------|-------------|-------------------------------------------------------------------------------------|----------|------|-----------------------|
| 1       | 220 KV Line Bay                | 1st bay     | Line control & relay panel with Distance protection & O/C E/F protection            |          |      |                       |
|         |                                |             | 3 Phase Circuit Breaker                                                             |          |      |                       |
|         |                                |             | 1-Ph CVT                                                                            |          |      |                       |
|         |                                |             | LA                                                                                  |          |      |                       |
|         |                                |             | 1-Ph Current Transformer                                                            |          |      |                       |
|         |                                |             | 3 Phase Isolator with/without Earth switch                                          |          |      |                       |
|         |                                | 2nd bay..   | Line control & relay panel with Distance protection & O/C E/F protection            |          |      |                       |
|         |                                |             | 3 Phase Circuit Breaker                                                             |          |      |                       |
|         |                                |             | 1-Ph CVT                                                                            |          |      |                       |
|         |                                |             | LA                                                                                  |          |      |                       |
|         |                                |             | 1-Ph Current Transformer                                                            |          |      |                       |
| 2       | 220/132 KV Transformer bay(HV) | 1st bay..   | Transformer control & relay panel with Differential protection & O/C E/F protection |          |      | Not Applicable.       |
|         |                                |             | 3 Phase Circuit Breaker                                                             |          |      |                       |
|         |                                |             | LA                                                                                  |          |      |                       |
|         |                                |             | 1-Ph Current Transformer                                                            |          |      |                       |
|         |                                |             | 3 Phase Isolator with/without Earth switch                                          |          |      |                       |
| 3       | 220/132 KV Transformer bay(LV) |             | Transformer control & relay panel with Differential protection & O/C E/F protection |          |      | Not Applicable.       |
|         |                                |             | 3 Phase Circuit Breaker                                                             |          |      |                       |
|         |                                |             | LA                                                                                  |          |      |                       |
|         |                                |             | 1-Ph Current Transformer                                                            |          |      |                       |
|         |                                |             | 3 Phase Isolator with/without Earth switch                                          |          |      |                       |
| 4       | 220 KV Buscoupler bay          |             | Line control & relay panel with Distance protection & O/C E/F protection            |          |      |                       |
|         |                                |             | 3 Phase Circuit Breaker                                                             |          |      |                       |
|         |                                |             | 1 Ph PT                                                                             |          |      |                       |
|         |                                |             | LA                                                                                  |          |      |                       |
|         |                                |             | 1-Ph Current Transformer                                                            |          |      |                       |

*[Signature]*

|   |                                  |               |                                                                                              |   |                  |          |
|---|----------------------------------|---------------|----------------------------------------------------------------------------------------------|---|------------------|----------|
|   |                                  |               | 3 Phase Isolator<br>with/without Earth switch                                                |   |                  |          |
| 5 | 132 KV Line bay                  | 1st Line bay  | Line control & relay panel<br>with Distance protection &<br>O/C E/F protection               | 1 | ERL, L-PRO       | Awaited  |
|   |                                  |               | 3 Phase Circuit Breaker                                                                      | 1 | Siemens          | Awaited  |
|   |                                  |               | 1 Ph CVP                                                                                     | 3 | Siemens          | Awaited  |
|   |                                  |               | LA                                                                                           | 3 | Crompton Greaves | Awaited  |
|   |                                  |               | 1-Ph Current Transformer                                                                     | 3 | Mehru            | Awaited  |
|   |                                  |               | 3 Phase Isolator<br>with/without Earth switch                                                | 3 | Siemens          | Awaited  |
| 6 | 132 KV Line bay                  | 2nd Line bay  | Line control & relay panel<br>with Distance protection &<br>O/C E/F protection               | 1 | ERL, L-PRO       | Awaited  |
|   |                                  |               | 3 Phase Circuit Breaker                                                                      | 1 | Siemens          | Awaited  |
|   |                                  |               | 1 Ph CVT                                                                                     | 3 | Siemens          | Awaited  |
|   |                                  |               | LA                                                                                           | 3 | Crompton Greaves | Awaited  |
|   |                                  |               | 1-Ph Current Transformer                                                                     | 3 | Mehru            | Awaited  |
|   |                                  |               | 3 Phase Isolator<br>with/without Earth switch                                                | 3 | Electrolite      | Awaited  |
| 7 | 132/33 KV Transformer<br>bay(HV) | Transformer 1 | Transformer control &<br>relay panel with<br>Differential protection &<br>O/C E/F protection | 1 | ERL, T-PRO       | 03-12-16 |
|   |                                  |               | 3 Phase Circuit Breaker                                                                      | 1 | Siemens          | 03-12-16 |
|   |                                  |               | LA                                                                                           | 3 | Crompton Greaves | 03-12-16 |
|   |                                  |               | 1-Ph Current Transformer                                                                     | 3 | Mehru            | 03-12-16 |
|   |                                  |               | 3 Phase Isolator<br>with/without Earth switch                                                | 3 | Siemens          | 03-12-16 |
| 8 | 132/33 KV Transformer<br>bay(HV) | Transformer 2 | Transformer control &<br>relay panel with<br>Differential protection &<br>O/C E/F protection | 1 | ERL, T-PRO       | 27-04-17 |
|   |                                  |               | 3 Phase Circuit Breaker                                                                      | 1 | Siemens          | 27-04-17 |
|   |                                  |               | LA                                                                                           | 3 | Crompton Greaves | 27-04-17 |
|   |                                  |               | 1-Ph Current Transformer                                                                     | 3 | Mehru            | 27-04-17 |
|   |                                  |               | 3 Phase Isolator<br>with/without Earth switch                                                | 3 | Siemens          | 27-04-17 |
| 9 | 132/33 KV Transformer<br>bay(LV) | Transformer 1 | Transformer control &<br>relay panel with<br>Differential protection &<br>O/C E/F protection | 1 | ERL              | 03-12-16 |
|   |                                  |               | 3 Phase Circuit Breaker                                                                      | 1 | ABB              | 03-12-16 |
|   |                                  |               | LA                                                                                           | 3 | Crompton Greaves | 03-12-16 |
|   |                                  |               | 1-Ph Current Transformer                                                                     | 3 | Mehru            | 03-12-16 |
|   |                                  |               | 3 Phase Isolator<br>with/without Earth switch                                                | 3 | Siemens          | 03-12-16 |

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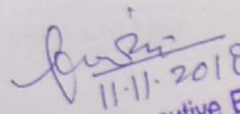
|    |                               |                         |                                                                                     |   |                  |          |
|----|-------------------------------|-------------------------|-------------------------------------------------------------------------------------|---|------------------|----------|
| 10 | 132/33 KV Transformer bay(LV) | Transformer 2           | Transformer control & relay panel with Differential protection & O/C E/F protection | 1 | ERL              | 27-04-17 |
|    |                               |                         | 3 Phase Circuit Breaker                                                             | 1 | ABB              | 27-04-17 |
|    |                               |                         | LA                                                                                  | 3 | Crompton Greaves | 27-04-17 |
|    |                               |                         | 1-Ph Current Transformer                                                            | 3 | Mehru            | 27-04-17 |
|    |                               |                         | 3 Phase Isolator with/without Earth switch                                          | 3 | Siemens          | 27-04-17 |
| 11 | 132 KV Buscoupler bay         |                         | Line control & relay panel with Distance protection & O/C E/F protection            | 1 | ERL              | Awaited  |
|    |                               |                         | 3 Phase Circuit Breaker                                                             | 1 | ABB              | Awaited  |
|    |                               |                         | 1 Ph PT                                                                             | 3 | Siemens          | Awaited  |
|    |                               |                         | LA                                                                                  |   |                  | Awaited  |
|    |                               |                         | 1-Ph Current Transformer                                                            | 3 | Mehru            | Awaited  |
| 12 | 33 KV Feeder                  | 33kv Thakraha feeder    | Line control & relay panel with O/C E/F protection                                  | 1 | ERL              | 08-12-16 |
|    |                               |                         | 3 Phase Circuit Breaker                                                             | 1 | ABB              | 08-12-16 |
|    |                               |                         | LA                                                                                  | 3 | Crompton Greaves | 08-12-16 |
|    |                               |                         | 1-Ph Current Transformer                                                            | 3 | Mehru            | 08-12-16 |
|    |                               |                         | 3 Phase Isolator with/without Earth switch                                          | 3 | Siemens          | 08-12-16 |
| 13 | 33 KV Feeder                  | 33 kv Madhubani Feeder  | Line control & relay panel with O/C E/F protection                                  | 1 | ERL              | 08-12-16 |
|    |                               |                         | 3 Phase Circuit Breaker                                                             | 1 | ABB              | 08-12-16 |
|    |                               |                         | LA                                                                                  | 3 | Crompton Greaves | 08-12-16 |
|    |                               |                         | 1-Ph Current Transformer                                                            | 3 | Mehru            | 08-12-16 |
|    |                               |                         | 3 Phase Isolator with/without Earth switch                                          | 3 | Siemens          | 08-12-16 |
| 14 | 33 KV Feeder                  | 33 kv Kuchaikote Feeder | Line control & relay panel with O/C E/F protection                                  | 1 | ERL              | 29-06-16 |
|    |                               |                         | 3 Phase Circuit Breaker                                                             | 1 | ABB              | 29-06-16 |
|    |                               |                         | LA                                                                                  | 3 | Crompton Greaves | 29-06-16 |
|    |                               |                         | 1-Ph Current Transformer                                                            | 3 | Mehru            | 29-06-16 |
|    |                               |                         | 3 Phase Isolator with/without Earth switch                                          | 3 | Siemens          | 29-06-16 |
| 15 | 33 KV Feeder                  | Spare                   | Line control & relay panel with O/C E/F protection                                  | 1 | ERL              |          |
|    |                               |                         | 3 Phase Circuit Breaker                                                             | 1 | ABB              |          |
|    |                               |                         | LA                                                                                  | 3 | Crompton Greaves |          |
|    |                               |                         | 1-Ph Current Transformer                                                            | 3 | Mehru            |          |
|    |                               |                         | 3 Phase Isolator with/without Earth switch                                          | 3 | Siemens          |          |

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|    |                  |                      |                                                                          |   |                  |          |
|----|------------------|----------------------|--------------------------------------------------------------------------|---|------------------|----------|
| 16 | 33 KV Feeder     | Spare                | Line control & relay panel with O/C E/F protection                       | 1 | ERL              |          |
|    |                  |                      | 3 Phase Circuit Breaker                                                  | 1 | ABB              |          |
|    |                  |                      | LA                                                                       | 3 | Crompton Greaves |          |
|    |                  |                      | 1-Ph Current Transformer                                                 | 3 | Mehru            |          |
|    |                  |                      | 3 Phase Isolator with/without Earth switch                               | 3 | Siemens          |          |
| 17 | 33 KV Feeder     | 33 kv Bhitaha Feeder | Line control & relay panel with O/C E/F protection                       | 1 | ERL              | 05-08-17 |
|    |                  |                      | 3 Phase Circuit Breaker                                                  | 1 | ABB              | 05-08-17 |
|    |                  |                      | LA                                                                       | 3 | Crompton Greaves | 05-08-17 |
|    |                  |                      | 1-Ph Current Transformer                                                 | 3 | Mehru            | 05-08-17 |
|    |                  |                      | 3 Phase Isolator with/without Earth switch                               | 3 | Siemens          | 05-08-17 |
| 18 | 33 KV Buscoupler |                      | Line control & relay panel with Distance protection & O/C E/F protection | 1 | ERL              | 29-06-16 |
|    |                  |                      | 3 Phase Circuit Breaker                                                  | 1 | ABB              | 29-06-16 |
|    |                  |                      | 1 Ph PT                                                                  | 3 | Mehru            | 29-06-16 |
|    |                  |                      | LA                                                                       |   |                  | 29-06-16 |
|    |                  |                      | 1-Ph Current Transformer                                                 | 3 | Mehru            | 29-06-16 |
|    |                  |                      | 3 Phase Isolator with/without Earth switch                               | 3 | Siemens          | 29-06-16 |

**Other Substation Equipments -**

|                                                   |                    |                     |                  |                 |
|---------------------------------------------------|--------------------|---------------------|------------------|-----------------|
| Battery Charger                                   | 1                  | 1                   | Chloride         | 29-06-16        |
|                                                   | 2                  | 1                   | Chloride         | 29-06-16        |
| ACDB                                              |                    | 6                   | Bose Engineering | 29-06-16        |
| DCDB(110V/48V)                                    |                    | 4                   | Bose Engineering | 29-06-16        |
| Battery bank                                      | 1                  | 1                   | Exide            | 29-06-16        |
|                                                   | 2                  | 1                   | Exide            | 29-06-16        |
| DG set                                            |                    | 1                   | Kirloskar        | 29-06-16        |
| PLCC Equipment                                    | 1. Isolator        | N/A                 |                  |                 |
|                                                   | 2. Battery Charger | 2                   | Chloride         | 29-06-16        |
|                                                   | 3. Panel           | 6                   | ABB              | 29-06-16        |
|                                                   | 4. telephone       | 1                   |                  |                 |
| Hydrant system with Pipe arrangement              |                    | N/A                 |                  |                 |
| Fire Fighting Equipment                           |                    | 24                  | Kanex            |                 |
| Earthing Rods                                     |                    | N/A                 |                  |                 |
| Tools & Tackles(Spanners,Wrench...etc.(Set/Piece) |                    | 5                   |                  |                 |
| Testing Equipments, BDV Test kit                  |                    | 1                   | Motwane          |                 |
| Megger 5kv                                        | Digital Multimeter | oil sampling bottle | 1 Each           | Shivnanda,kusam |
| Porable SF6 gas reffilling device                 |                    | 1                   | Enervac          |                 |
| Auto capacitance & Ten delta kit                  |                    | 1 Each              | Enervac          |                 |
| SST                                               |                    | 1                   | East India       |                 |
| Spare Hardware Fitting.                           |                    | 6 set               |                  |                 |

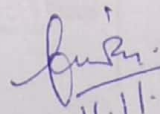
  
 11-11-2018  
 Assistant Executive Engineer  
 Transmission Subdivision, Thakrahan



## Sample format for GSS land assets

### GSS:-THAKRAHA

|    | LOCATION                                                                                             |                                         |
|----|------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 01 | Name of GSS                                                                                          | Thakraha                                |
| 02 | Located at ( Name of locality)                                                                       | Motipur                                 |
| 03 | Block/Prakhand                                                                                       | Thakraha                                |
| 04 | Police Station (Thana)                                                                               | Thakraha                                |
| 05 | Sub-Division                                                                                         | Bagaha                                  |
| 06 | District                                                                                             | West Champaran                          |
| 07 | Transmission Division                                                                                | Motihari                                |
| 08 | Transmission Circle                                                                                  | Muzaffarpur                             |
| 09 | GPS Co-ordinates                                                                                     | Latitude- 26.747010,Longitude-84.256236 |
|    | LAND DETAILS                                                                                         |                                         |
| 10 | Initial Area (In Acre)                                                                               | 7.00 acres                              |
| 11 | Whether it was:                                                                                      |                                         |
|    | (i) A Govt. Land (State type GM or )                                                                 | Yes                                     |
|    | (ii) Private Land                                                                                    | Yes                                     |
|    | If Private Land, Whether                                                                             |                                         |
|    | (i) Purchased                                                                                        |                                         |
|    | (ii) Acquired                                                                                        |                                         |
|    | (iii) Leased Land                                                                                    |                                         |
| 12 | Year of Purchase/Acquisition                                                                         | 2014                                    |
| 13 | Whether mutation completed                                                                           |                                         |
| 14 | Cost of the Land (At the time of procurement)                                                        |                                         |
| 15 | Whether more land was purchased /acquired/ Leased in for GSS Extension work?<br>If yes, Give details |                                         |
| 16 | Area of the extra land for GSS                                                                       |                                         |
| 17 | Cost                                                                                                 |                                         |
| 20 | Year of Purchase/lease of extra land                                                                 |                                         |
| 21 | Total area at present                                                                                | 7.00 acres                              |
|    | Details of Land (Khata/Khesara)                                                                      | 7077,7078,7079,7080,7081,7082,7083.     |
|    | Thana No.                                                                                            | 433                                     |
|    | Name of Municipality/Nagar Parishad etc.                                                             | Motipur                                 |
|    | Ward No./Circle No./ Holding No.                                                                     |                                         |
|    | Amount of Early Land related Taxes                                                                   |                                         |
|    | Taxes clear up to                                                                                    |                                         |
| 22 | Land Records available with                                                                          | Khata,Khesara and Map                   |

  
 11.11.2018  
 Assistant Executive Engineer  
 Transmission Subdivision, Thakraha



U.O.I. No. ...125  
Date 06/11/2018

Buff Sheet

CE, Trans. (O&M)  
BSPTCL, Patna

Sub.: Status of compliance on the directives issued by the Hon'ble BERC in the Tariff Order - 2018-19.

- Ref.: 1. Letter No.- BERC-corr./Directive-09/18-850; Dated - 24/07/18  
2. Letter No. - BERC-Corr./Directive-09/18-942; Dated-09/08/18  
3. Letter No. - BERC-Corr./Directive-12/18-1258; Dated-29/10/18

In reference to above, the Hon'ble BERC issued directives in Tariff Order FY 2018-19 seeking compliance report at the earliest.

The following directives are related to Trans. (O&M) wing of BSPTCL:

| S.No.          | Directive                                                                      | Subject                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Status of compliance |
|----------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1.             | Directive 6:<br>Maintenance of asset/property Register<br><br>GSS<br>Thakraha. | The Commission has observed that the petitioner has submitted the details of equipment available at various substations in the form of scan copy/excel sheet. No details for lines were furnished. The equipment details furnished do not depict the value i.e. cost of equipment and other details. The property register should contain all the details of equipment available at the location i.e. substation, etc showing the details of nature of equipments, year of installation, value, rate of depreciation, depreciation (year on year as well as the accumulated depreciation), residual value, whether the equipment is in working condition or not, etc. The Commission directs BSPTCL to submit the property register showing all the particulars by 30 <sup>th</sup> September, 2018. | yes                  |
| New Directives |                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |
| 1.             |                                                                                | Regulation 73 (3) of the BERC (Terms and Conditions for Determination of Tariff) Regulations 2007 specifies:<br>Norms for operation and maintenance expenses per Ckt.-Km and per bay shall be as under:<br>(a) The commission shall, for the purpose of fixing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |

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|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | <p>normative rates for operation &amp; maintenance expenses, study the O&amp;M expenses incurred over the last 4 to 5 years and fixed appropriate rates per Ckt-km of transmission line and per bay. The norms so fixed for 2008-09 shall be escalated at 4% per annum.</p> <p>(b) The total allowable O&amp;M expenses for a transmission licensee shall be calculated by multiplying the number of bays and Ckt-km of line length with the application norms for O&amp;M expenses per bay and per Ckt-km respectively.</p> <p>The Commission, directs the BSPTCL to ensure filing of the tariff petition for next MYT control period i.e. from FY 2019-20 to FY 2021-22 proposing the norms for O&amp;M expenses in accordance with regulation 73 (3).</p> |  |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

2. The transmission licensees are obligated under the Regulation to take separate electric connection from distribution licensees for use of electricity within the grid sub-station and the electricity charges of such connection shall be booked under Administrative & General expenses and shall be pass through in the tariff. Such expenses shall not contain any electricity charges towards colony consumption. Consumption and colony consumption in the format prescribed hereunder:

| Name of GSS | Whether metered connection taken to measure auxiliary consumption, if so, provide details with service connection number | Annual consumption and electricity charges towards auxiliary consumption | Whether separate metered connection taken to measure colony consumption, if so, provide details with service connection number | Annual consumption and electricity charges towards colony consumption |
|-------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Thakrata    | NO.                                                                                                                      | -                                                                        | NO.                                                                                                                            | -                                                                     |

The compliance report of the directives needs to be submitted to Hon'ble BERC and hence, it is requested to provide the report at the earliest to the undersigned.

*[Signature]*  
 11-11-2018  
 Assistant Executive Engineer  
 Transmission Subdivision, Thakrata

*[Signature]*  
 06.11.2018  
 (Rakesh)  
 Chief Engineer (Power Management Cell)