**SYSTEM REORGANISATION REQUIRED FOR DECOMMISSIONING OF OLD UNITS**

| **Plant** | **Impact** | **System re-organization** |
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| DTPS Unit-3 | Gen. shortfall: 140 MW  Affected load: 480 MW  (DTPS-42.2MW, ASP-57.3MW, BDWN-123.7MW, BEL-43MW, KALI-141MW, JAMU-73MW) | Stage-I:   1. Replacement of old ATRs – 2 nos. ATRs have already been replaced. The third ATR will be delivered by Dec. 2015. 2. Installation and commissioning of LILO of 2nd ckt. of 132 KV DTPS – CTPS line at Jamuria by Dec. 2016. |
|  |  | Stage-II:  Installation and commissioning of   1. 220 KV Parulia – Burdwan line by Feb. 2018. 2. 220 KV GIS substation at Burdwan by Feb. 2018. 3. De-commissioning of DTPS Unit 3. |
|  |  | Stage-III:  Installation and commissioning of   1. LILO of one ckt. of 220 KV MTPS – Kalyaneswari line at Kalipahari by Jun. 2019. 2. 220 KV GIS substation at Kalipahari by Jun. 2019. |
| CTPS Units-1,2,3  Alternative1:  132 KV switchyard retained. | Gen. shortfall: 330 MW  Affected load: 393 MW  (CTPS-360.9MW, BIADA-32.1MW) | Stage-I:   1. Commissioning of 220 KV CTPS – BSL (MRSS) line. 2. De-commissioning of CTPS Units 1. |
|  |  | Stage-II:   1. LILO of 132 KV CTPS – Gola line at BIADA. 2. Connection of 132 KV CTPS - BIADA line to 132 KV CTPS - Rajabera line outside CTPS. 3. De-commissioning of CTPS Units 2. |
|  |  | Stage-III:  Construction of   1. 220 KV GIS substation at BSL (Bokaro Steel). 2. LILO of 220 KV CTPS –BSL line at BSL GIS Substn. 3. 132 KV LILO of Purulia – CTPS line at BSL GIS Substn. 4. Connection of 132 KV Purulia – CTPS line to 132 KV Gola – CTPS line outside CTPS. 5. De-commissioning of CTPS Units 3. |
|  |  | Stage-IV:  Construction of   1. LILO of 220 KV MTPS –Gola (Sosokola) line at BSL GIS Substn. |
| CTPS Units-1,2,3  Alternative2:  132 KV switchyard demolished. | Gen. shortfall: 330 MW  Affected load: 477 MW  (CTPS-360.9MW, BIADA-32.1MW, PUTKI-183.7MW) | Stage-I:   1. Construction and commissioning of 220 KV CTPS – BSL (MRSS) line. 2. LILO of 132 KV CTPS – Gola line at BIADA. 3. Connection of 132 KV CTPS - BIADA line to 132 KV CTPS - Rajabera line outside CTPS. |
|  |  | Stage-II:  Installation and commissioning of   1. 132 KV Maithon – Patherdih line termination at Sindri. 2. 132 KV Dhanbad – Patherdih line. |
|  |  | Stage-III:  Installation and commissioning of   1. 220 KV GIS substation at BSL (Bokaro Steel). 2. LILO of 220 KV CTPS –BSL line at BSL GIS Substn. 3. 132 KV LILO of Purulia – CTPS line at BSL GIS Substn. 4. Connection of 132 KV Purulia – CTPS line to 132 KV Gola – CTPS line outside CTPS. 5. De-commissioning of CTPS Unit 1. |
|  |  | Stage-IV:  Installation and commissioning of   1. LILO of 220 KV MTPS –Gola (Sosokola) line at BSL GIS Substn. 2. De-commissioning of CTPS Unit 2. |
|  |  | Stage-V:  Installation and commissioning of   1. 132 KV CTPS – BSL line termination at BSL GIS Substn. 2. Connection of 132 KV CTPS - BSL line ckt. 1 &2 to 132 KV CTPS – Putki line outside CTPS. 3. Connection of 132 KV CTPS – BSL line ckt. 3 to 132 KV CTPS - DTPS line outside CTPS. 4. De-commissioning of CTPS Unit 3. |
| BTPS Units-1,2,3 | Gen. shortfall: 630 MW  Affected load: 621 MW  (RMG-203.7MW, PAT-51MW, NK-45MW, JSR-140MW, MOSB-96MW, PUR-17.7MW, BTPS-68MW) | Stage-I:  Installation and commissioning of   1. Two nos. of 220 KV bays at BTPS. 2. Commissioning of Bokaro-A 1x500 MW unit. 3. De-commissioning of BTPS Units 2 & 3. |
|  |  | Stage-II:  Installation and commissioning of   1. 220 KV substation at Gola (Sosokola). |