|  |  |
| --- | --- |
|  |   **पंजीकृत कार्यालय :शक्ति सदन, कोटला रोड़, न्यू दिल्ली-110002**(Regd. Office Shakti Sadan, Kotla Road, New Delhi-110002) **कार्यालय उपमहाप्रबंधक (एस.ओ.)** **Office of Dy. General Manager (SO)****एस एल डी सी बिल्डिंग, मिंटो रोड़, न्यू दिल्ली-110002** SLDC Building, Minto Road, New Delhi-110002Ph: 23221149 FAX No.23221012 |
| **No. F./DTL/207 /DGM(SO)/11-12/82** | **Dated : 28.03.2012**  |

**Subject : Minutes of the Meeting held on 23.03.2012 for planning shut-down of**

**Dadri (Thermal) and BTPS Units for 2012-13**

Dear Sir, / महोदय

The copy of the Minutes of the Meeting held on 23.03.2012 at Delhi SLDC for planning shut-down of Dadri (Thermal) and BTPS units for 2012-13 is enclosed for ready reference and further necessary action please.

It is also available in SLDC website [*www.delhisldc.org*](http://www.delhisldc.org) at Meeting Portal.

Thanking you,

 भवदीय / Yours faithfully

Encl. As above

 (**वी.वेणुगोपाल)/(V. Venugopal )**

 **(उपमहाप्रबंधक (एस.ओ.)/**Dy. G. M. (SO)

List of addresses

1. Executive Director (T), DTL, Shakti Deep Bldg. Jhandewalan, New Delhi-110055
2. Executive Director (Engg.), DERC, Viniyamak Bhawan, Shivalik, New Delhi-17
3. General Manager (O&M), DTL, Park Street, 220kV S/Stn, New Delhi
4. General Manager (OS), NCR Headquarter, Noida
5. General Manager, Dadri (Thermal), Dadri National Thermal Power Project, Dadri-Dhaulan Road, Gautam Budh Nagar, UP-201008
6. General Manager, Dadri National Capital Power Project Stage-II, Dadri – Dhaulana Road, Gautam Budh Nagar, UP-201008
7. General Manager, Badarpur Thermal Power Stn., Badarpur, New Delhi-110044
8. General Manager (Commercial), DTL
9. General Manager, RPH
10. General Manager, G.T. Station
11. General Manager, Pragati Station
12. General Manager, SLDC, Delhi
13. CWE (Utilities), MES, Delhi Cantt., New Delhi-110010
14. Addl. Vice President, System Operation, BRPL, Balaji Estate, Kalkaji, New Delhi
15. DGM (SO), System Operation, BYPL, Balaji Estate Kalkaji, New Delhi
16. Chief Engineer (Electrical-1), NDMC, Palika Kendra, New Delhi-110001
17. Chief Engineer (Electrical -2), NDMC, Palika Kendra, New Delhi -110001
18. Director (Comml.), NDMC, Palika Kendra, New Delhi-1
19. Sh. Chander Mohan, Vice President & Head (Network Operation), BRPL, BSES Bhawan Nehru Place, New Delhi-19
20. Sh. Ajay Kumar, VP (PP&PMG), BRPL, Bldg. No. 20, Nehru Place, New Delhi-19
21. General Manager (PP&CC), NDPL, Corporate Office, 3rd Floor, Sub-Station Building, Hudson Lines, Kingsway Camp, Delhi-110019
22. Sh. Sunil Kakkar, Addl. Vice President (PMG), BSES Yamuna Power Ltd., Shakti Kiran Building, Karkardooma, Delhi 110092
23. Sh. Sanjay Srivastava, AVP (PMG), BRPL, Bldg. No. 20, Nehru Place, New Delhi-19
24. General Manager (Commercial), National Thermal Power Corporation, NTPC NCR Headquarter, Sector-24, Noida, UP-201301
25. Manager (SO)-Shift, Delhi SLDC
26. Executive Engineer (SO), NDMC, Minto Road

Copy for favour of kind information to :

* 1. Secretary, DERC, Viniyamak Bhawan, C-Block, Shivalik, New Delhi-110017
	2. Chairman and Managing Director, DTL
	3. Member Secretary, NRPC, **18A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-16**
	4. **Director (Operations), NTPC Ltd, Core-7, Scope Complex, Lodhi Road, New Delhi-03**
	5. Chairperson, New Delhi Municipal Council, Palika Kendra, Sansad Marg, New Delhi
	6. CEO, BSES Rajdhani Power Ltd, BSES Bhawan, Nehru Place, New Delhi-110019
	7. CEO, BSES Yamuna Power Ltd, Shakti Kiran Building, Karkardooma, Delhi-92
	8. Managing Director, NDPL, 33kV Grid S/Stn, Hudson Lane, Kingsway Camp, Delhi-9
	9. Chief Engineer (Utilities), CWE, MES, Kotwali Road, Delhi Cantt New Delhi-110010
	10. Managing Director, IPGCL/PPCL,Himadri, Rajghat Power House, New Delhi-110002
	11. Addl. Secretary (Power), GNCTD
	12. Director (T), PPCL, Himadri, Rajghat Power House, New Delhi-110002
	13. Director (Operations), DTL
	14. G.M., NRLDC, **18A, Shaheed Jeet Singh Marg, Opp. Katwaria Sarai, New Delhi-16**
	15. **Director (O&M), Ministry of Power, Govt. of India, Shram Shakti Bhawan, New Delhi-01**

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**DELHI TRANSCO LTD.**

(Regd. Office : Shakti Sadan, Kotla Road, New Delhi 110002)

**[Office of Dy. General Manager (SO)]**

SLDC Building, Minto Road, New Delhi – 110 002

Phone No.23221149, Fax 23221012, 23221059

**Subject : Minutes of the Meeting held on 23.03.2012 for planning of shut-**

**down of Dadri (Thermal) and BTPS Units for 2012-13**

As decided in the meeting held on 06.03.2012, the 2nd meeting was convened on 23.03.2012 at SLDC as NTPC has confirmed that after a continuous persuasion, the material for carrying out pressing maintenance work of Dadri (Thermal) Unit-5 (490MW capacity) has been started receiving. The unit was ready for taking maintenance work from 01.04.2012.

List of the participants is enclosed as Annexure-A.

The following points were discussed and decided.

1 NTPC representative presented the urgent requirement of shut-down of Dadri Thermal Unit-5 which was earlier planned for the period 26.04.2012 to 16.05.2012 has now been ready for shut-down from 01.04.2012 as requested in the meeting held at SLDC on 06.03.2012. NTPC representatives further provided the details of urgent works needed for ensuring continuous operation of the unit for the entire summer season as under :-

**a) Problems in Generator transformers**

GT ‘R&B’ Phase bushings need immediate replacement. It is pertinent to mention here that the bushings of same lot had failed in Korba and Farakka 500 MW units. M/s. BHEL has already supplied replacement bushing with a request for replacement to avoid major failures. During summer the problem will further worsen.

GT R-phase transformer is running with high dissolved gases.

CTs in the tie breakers of unit-5 needs replacement since CTs of similar lot failed earlier causing station failure on 30.04.2011 and 10.07.2011.

**b) Choking in Secondary Air Pre Heater (SAPH)**

Since SAPH baskets are badly choked, load on support structures of SAPH baskets are very high and may lead to major damage leading to prolonged outage as in case of Rihand.

**c) Stalling of FD fans.**

Due to choking in Air Pre Heater (APH) baskets FD fans are frequently stalling w.r.t characteristic curves leading to furnace instability and damage to equipments.

**d) Margins in ID fans**

Since margins in ID fans are not available during summer the conditions would further deteriorate and lead to restricted operations.

**e) Poor condenser vacuum**

Presently condenser vacuum comes down to a minimum value 625 mm of Hg with CW inlet temperatures of 31 degrees Centigrade. When the temperatures go to 36 -37 in summer, the unit would trip on condenser vacuum low protection.

**f) Coal burner tips**

Since the unit is running for more than two years after commercial operation, the coal burner tips are in badly damaged condition and needs immediate replacement. This is also leading to restricted movement of burner causing asynchronous operation of coal burners and leading to furnace instability

**g) Damaged Non Metallic Expansion Joints (NMEJs)**

A number of non-metallic expansion joints are in damaged condition; furnace pressure is going high and causing instability in operation.

2 NTPC also requested to allow the shut-down of Dadri Unit-1 (210MW) for 20 days after the revival of Unit-5. It was also informed that Boiler License of unit expires on 18.04.2012. Without renewing the license, the unit may not be in a position to run. They have tried to get the renewal of unit during this month but due to non availability of Boiler Inspector, this could not be done.

3 The representatives of Distribution Licensees particularly BRPL and BYPL were expressed their inability to allow the shut-down particularly due to the fact that both the utilities face severe power shortages during summer months. Even with best efforts, no power is available in the market during the period April 2012 to June 2012. In such scenario, if 490MW unit is allowed for shut-down in which Delhi has 75% share would lead severe shortage and would result into load shedding. They have also pointed out that between November 2011 to March 2012, in none of the days, Dadri Thermal Stage-II units got the full schedule due to surplus situation during the time, the units shut-down were not taken. It is highly injustice to the consumers of the Delhi when the demand is picking up and major units are going under plan shut-downs one by one.

 NDPL representative also supported the views of BRPL & BYPL. SLDC also ascertained the fact that November 2011 to March 2012, NTPC should have availed the opportunity of less schedule to carry out the maintenance of the units. It was also brought to the notice that the unit-5’s shut-down was originally planned during February – March 2012.

NTPC representatives expressed their regret not to avail the shut-down during February – March 2012 but explained that the reason not availing the shut-down was not attributable to them alone but due to non availability of required material from BHEL. It was also assured by NTPC representative that 490MW units at Dadri would be taken under shut-down during the period November to March in future looking into the load pattern of Delhi and the advise of the forum.

4 NTPC representatives expressed their inability to postpone the shut-down of Dadri Unit-5, as the present status mentioned above, the unit may go under break-down at any point of time and if it goes, it may take much more time than bringing the machine after planned shut-down. They also agreed for no over lapping of shut-down of unit-5 and unit-1. However, at appropriate time, the unit-1 would be taken for shut-down for three days for renewal of boiler license which is a statutory requirement. After the shut-down of unit-5, unit-1 would be taken for shut-down for 20 days so that all units of Dadri Thermal would be made available for entire summer.

5 Representative of BRPL and BYPL again expressed their inability to approve the proposal at present stage as they are not in a position to meet the shortfall in case of outage of unit-5 of Dadri Thermal.

6 NTPC representatives expressed that if no shut-down is permitted on unit-5, they would go ahead with shut-down of unit-1 which has already been approved for the period 01.04.2012 to 20.04.2012 and in case any break-down is occurred on unit-5, the unit won’t be available at the time of need.

7 Since, no consensus could be arrived for shut-down of unit-5, after the meeting, the matter was discussed with CEOs of BRPL & BYPL and Power Management Group of NDPL. They were apprised that it would be better to allow the shut-down of unit-5 in the early summer season as shortages are manageable due to possible favourable weather conditions which could not be possible during the months of May, June & July due to harsh weather conditions. It would be better to allow the shut-down of unit-5 from 01.04.2012 to 25.04.2012 otherwise there would always be risk of loosing 490MW unit for the entire summer season.

 Since, there was not other alternative, CEOs BSES utilities and PMG of NDPL agreed the suggestion of SLDC with request to no overlapping of shut-down of unit-5 & 1 of Dadri Thermal. They also requested to place the fact before Govt. of NCT of Delhi.

Accordingly, the shut-down of Dadri unit-5 was allowed from the period 01.04.2012 to 25.04.2012 and official communication in this regard was forwarded to NTPC for required mobilization. The copy of the communication send in this regard is enclosed as Annexure-B.

**Shut-downs of BTPS units**

8 BTPS representative requested for shut-down of various units for 2012-13 as under :-

|  |  |  |  |
| --- | --- | --- | --- |
| Unit no. | Capacity in MW | Period of shut-down | Activities required during the shut-down |
| 1 | 95 | 25.10.2012 to 13.11.2012 | 1. Turbine Steam Washing2. Milling grinding media replacement3. Boiler License Renewal 4. Burner replacement 5. Boiler Water wall & Economizer Inspection &  Rectification6. ESP Inspection & Rectification. |
| 2 | 95 | 01.08.2012 to 20.08.2012 | 1. Turbine Steam Washing2. Milling grinding media replacement3. Boiler License Renewal 4. Burner replacement,5. Boiler Water wall & Economizer Inspection &  Rectification6. ESP Inspection & Rectification. |
| 3 | 95 | 01.04.2012 to 20.04.2012 | 1. Condenser tubes replacement2. SH acid cleaning3. Turbine Steam Washing4. Milling grinding media replacement5. Boiler License Renewal  |
| 4 | 210 | 05.03.2013 to 13.04.2013 | 1.ESP R&M2. Water Wall platen , water wall & S Panel Inspection &  Rectification3. Turbine inspection4. Rotary fans, Mills Motors Overhauling5. Boiler License Renewal  |
| 5 | 210 | 01.09.2012 to 10.10.2012 | 1. ESP R&M.2. Water Wall platen & water wall, S Panel replacement. 3. Turbine inspection. 4. Condenser tubes replacement 5. GT Replacement.6. Boiler License Renewal  |

9 NDPL representative was of the view that the shut-down of unit-5 scheduled from 01.09.2012 to 10.10.2012 should be availed from 1st November 2012 to 10.12.2012 being the lean season. As per the weather forecast available with them, this year during September 2012, the weather is expected to be too humid & warm and demand is likely to be remained high. BTPS representative mentioned that an earlier approved programme also, the unit was planned shut-down from 25.10.2012 to 13.12.2012 and they are demanding pre-ponement of the shut-down to avoid continuous overhauling of the units in a financial year.

10 SLDC representative also supported the views of Delhi Discoms and advised NTPC to plan the shut-downs as per the load requirement of Delhi as the shut-down of 210MW load center based units during high demand period not only creates the transmission constraints but also destabilized the voltage profile.

11 Concluding the discussions, the following shut-down programmes of BTPS and Dadri Thermal has been suggested as under :-

|  |  |  |  |
| --- | --- | --- | --- |
| **Station**  | **Capacity in MW** | **Shut-down period suggested** | **Remarks**  |
| Dadri (Th) Unit-1 | 210 | 26.04.2012 to 14.05.2012 | The shut-down of unit-5 & 1 has been swapped as per the discussions with CEOs of BRPL & BYPL, PMG NDPL and Chair person DPPG.  |
| Dadri (Th) Unit-5 | 490 | 01.04.2012 to 25.04.2012 |
| Dadri (Th) Unit-6 | 490 | 14.07.2012 to 16.07.2012 | For boiler license renewal only |
| Dadri (Th) Unit-2 | 210 | 20.08.2012 to 23.09.2012 |  |
| Dadri (Th) Unit-6 | 490 | 25.10.2012 to 20.11.2012 |  |
| BTPS Unit-3 | 95 | 01.04.2012 to 20.04.2012 |  |
| BTPS Unit-2 | 95 | 01.08.2012 to 20.08.2012 |  |
| BTPS Unit-5 | 210 | 01.11.2012 to 10.12.2012 |  |
| BTPS Unit-4 | 210 | 15.03.2013 to 23.04.2013 |  |
| BTPS Unit-1 | 95 | 15.12.2012 to 03.01.2013 |  |

12 NTPC was once again requested to plan 490MW units at Dadri Thermal and 210MW machines as BTPS during the period November to March in future for which they agreed.

**Annexure-A**

**The list of the officers attended the meeting held at SLDC on 23.03.2012 with regard to planning of shut-downs of Dadri (Thermal) and BTPS units**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. N.** | **Name**  | **Designation** | **Utility** | **Mobile no.** | **Email** |
|  1 | Sh. Roop Kumar | G. M. (SLDC) | SLDC | 9999533629 | roopkumar2008@gmail.com |
| 2 | Sh. Bhupender Nath | G.M. (Comml.) | DTL | 9999533627 |  |
| 3 | Sh. V.Venugopal | Dy.G.M. (SO) | SLDC | 9871093902 | venugopal.v1960@yahoo.co.in  |
| 4 | Sh. Shiva Rama Krishna | AGM (O&M), Dadri | NTPC | 9650991530 |  |
| 5 | Sh. Shailesh Dhiman | Sr. Manager (OS), NCRHQ | NTPC | 9650990166 | shaileshdheman@ntpc.co.in |
| 6 | Sh. D. Makhija | AEM (MTP), BTPS | NTPC | 9650993802 | devindermakhija@ntpc.co.in |
| 7 | Sh. S.K. Maheshwari | DGM(EEM), BTPS | NTPC | 9650993817 | skmaheshwari@ntpc.co.in |
| 8 | Sh. S.K. Majumdar | DGM(EEM), NCPS | NTPC | 9650994625 | skmajumdar03@ntpc.co.in |
| 9 | Sh. V.B. Singh | Manager (SO) | SLDC | 9999533811 | vbsingh2008@gmail.com |
| 10 | Sh. Anurag Sharma | Manager (PMG) | BYPL | 9313553021 | anurag.kr.sharma@relianceada.com |
| 11 | Sh. Sunil Kakkar | AVP (PMG) | BYPL | 9312147042 | sunil.kakar@relianceada.com |
| 12 | Sh. Sanjay Srivastava | Asstt. VP (PMG) | BRPL | 9312147045 | sanjay.srivastav@relianceada.com |
| 13 | Sh. Ashis Kumar Dutta | A.G.M. | TPDDL | 9871798566 | ashis.dutta@tatapower-ddl.com |
| 14 | Sh. K.S. Meena | XEN(SO) | NDMC | 9871798566 | meenaks24@rediffmail.com |
| 15 | Sh. Darshan Singh | Manager (SO) | SLDC | 9999533837 | Darshansingh.dtl@gmail.com |
| 16 | Sh. O.P. Kashyap | Manager (SO) | SLDC | 9999533654 | Opkashyapdtl@gmail.com |
| 17 | Sh. Deepak Sharma | AM(T), SO | SLDC | 9999535008 | Deepaksharma.dtl@yahoo.co.in |
| 18 | Sh. Sanjeev Kumar | AM(T), SO | SLDC | 9999533917 |  |
| 19 | Mrs. Sonali Garg | AM(T), SO | SLDC | 9999533898 |  |