

BRIEF STATUS

1. **Name of the Project** - Satpura Thermal Power Station, Extn. Units 10 & 11 (2X250 MW) AT Sarni, Distt. Betul.

2. **Implementation Plan** -

Unit 10: December 2012 (COD)

Unit 11: April 2013 (COD)

3 **Project Cost & Funds Tie up –**

- Project cost - Rs. 3032.34 Crs. (Revised Cost)
- Equity- Rs. 606.468 Crs..
- PFC loan – Rs.2300.2 Crs.
- Fund untied up- Rs.125.6 Cr.

4 **Details of Award of Contract -**

(A) **Main Power Block:** For execution of Main Power Block on EPC basis, Lol issued on M/s BHEL.on 10.03.2008.

(B)**Balance of Plants:** For execution of Balance of Plant on EPC basis, Lol issued on M/s McNally Bharat Engg. (MBEL), Kolkata on 3/4/2010.

5 **Expenditure Details:**

Rs in Crore		
Plan -Equity	PFC– Debt	Total
336.81	1400.04	1736.85

6. **Status of Statutory / Non-Statutory Clearances**

- All Statutory / Non-Statutory Clearances have been obtained after receipt of 'Consent to Establish' from MPPCB..
- Land available for Plant & equipments.Possession of 130 Hect. land for Ash bund and 0.87 Hect. private land at Ghoradongri near railway siding for construction of Railway line has been taken on 04.01.2011 & 11.05.2011 respectively.

7. **Progress of Works**

(I)**Main Power Block-**

- Slab casting work of TG (Hall) unit #10 completed and unit #11 is in progress.
- TG Deck casting activities of Unit 10 is completed. Condenser erection of unit #10 is in progress. Alignment of shell internal completed. Welding & NDT of the same is in progress.
- TG erection of unit # 10 started on 6.12.11 and is in progress. HPT placement & alignment completed. IP module placement preparation completed. LP Outer casing alignment completed. LP inner- Outer casing placement completed,alignment in progress. FST erection and Deaerator erection completed. HP & LP heater placement and alignment completed.TG # 10- Foundation plate grouting completed. Sole plate placement and alignment completed.
- TG Deck casting activities of Unit 11 is completed on 21.10.11.UT completed. Pressure grouting under progress.
- Hydraulic test of unit # 10 completed successfully on 04.11.11.
- **Hydraulic test of unit # 11 completed successfully on 30.04.12.**

- Structural steel 13894 MT out of total 14500 MT supplied. Fabrication of 13400 MT /14500 MT steel structure for unit 10 & 11 and erection of 10650 MT completed.
- BHEL supplied 9937 MT ESP & Fan material, 18472 MT Boiler material & 1504 MT Mill material, 2137 MT (227/370 consignment) TG material so far.
- Around 6686 MT Boiler Erection of Unit 10 and 4960 MT Boiler erection of unit 11 has been completed. About 13273 Pressure parts welding joints of unit-10 and 11025 of unit-11 has been completed.
- 3245 MT ESP erection of unit 10 & 2732 MT ESP erection of unit 11 has been completed so far.
- Foundation of both I.D.Fans, one P.A./ F.D.Fan, and all the three BFPs of unit 10 & 11 are completed. Foundation of Coal mills C,D, E & F of unit #10 and Coal mills A&B (except pipe sleeve cast) of unit #11 completed. Foundation construction work of Duct support, ESP Control Room #10, Fuel Oil Pump House, Compressor House, ACW Pump House and others auxiliaries of unit 10 & 11 are in progress.
- Unit # 10- Foundation of ST and GT completed. Both UAT foundation raft cast completed.
- Unit # 10- ST placed on its foundation on 10.3.12.
- Mechanical erection of some Boiler/Turbine-Auxiliaries of unit # 10 (APH-A/B, ID fan-A/B, FD fan-A, PA fan-A, Coal mills C/D/E/F, BFP-B) and unit # 11 (APH-B ,ID Fan-A/B) are in progress.
- Unit # 10-11 FOPH pipe Rack, ACW pump house and Compressor house structure erection in progress.
- Insulation and Refractory work of Boiler unit # 10 is under progress.
- Insulation work of ESP unit #10 started.

(II)BoP Package-

- Design and engineering work is on progress. Various Drg/documents are in different stages of approval.
- Supply of materials for AHP, CHP , Raw water system, DM plant and Electrical are in progress.

CHP ;- i) **WAGON TIPPLER: - Wagon Tippler 1 & 2:** – Beam Cast @ 448 level for WT-1 & 2 completed. Cast preparation of hopper up to 451 level is under progress. ii) **TP-1A:**– Intermediate slab cast completed. Wall cast completed. Staircase completed. iii) **Cross tunnel:**- Civil work completed. iv) **Tunnel Conv. 1C/1D:**- Tunnel completed for 57 /131 RM. v) **TP-2,3A,4,9,10&11:**–Structural erection under progress. vi) **TP-5-** Structural erection completed. vii) **TP-3,,6,7&8:** Structural fabrication under progress. viii) **Primary Crusher House:**-Structural erection is in progress. ix) **Secondary Crusher House:** – Structural erection is in progress.. Girder slab cast completed. x) **Stacker & Reclaimer:**- Mechanical erection(Electric house plate form, walkway & staircase) is in progress. xi) **Reclaim Hopper-1:**-Slab cast below hopper completed. Wall cast is under progress. xii) **Reclaim Hopper – 2 :-** Raft cast completed. Wall cast is under progress xiii) **Reclaim Tunnel between RH-2 & PH-2 :-** Tunnel 36 /109 RM completed, xiv) **Reclaim Tunnel between RH-1 & RH-2 :-** Civil work Reclaim tunnel between RH-1 & RH-2 completed. xv) **Conveyor 1E/1F:**- Bolt lift completed for 14/14 trestle, erection under progress. xvi) **Con. Tunnel 7C/1:** PCC under progress. xvii) **Con. 3C-3D:** Bolt lift completed for 7/7 trestle, Gallery erection under progress. Bolt lift completed for 20/40 Ground portal foundation. xviii) **Con. 5D-7D:** Raft cast completed for 17/34 no. trestle. Bolt lift completed for 10/34 no. Trestle. xix) **Con. 8A-8B:** Raft cast completed for 11/20 no. trestle. Bolt lift completed for 10 /20 no. Trestle. Gallery erection under progress. xx) **Con. 8C-8D:** Bolt lift completed for 13/17 no. Trestle. Raft cast completed for 13/17 Trestle. Gallery erection under progress. xxi) **Con. 9C-9D:** Bolt lift completed for 4 / 5 no. Trestle. Gallery erection under progress. xxii) **Con. 1C-1D:** Raft cast completed for 11/13 no. Trestle Bolt lift completed for 6/13 no. Trestle. xxiii) **Con. 5C-7E:** Raft cast completed for 3/ 6 no. Trestle. xxiv) **Conv. 2C:** Raft cast completed for 1/2 no. Trestle. xxv) **SCH ele. Room:** GF slab cast completed. Column up to lintel above GF slab completed. xxvi) **WT ele. Room:** Slab cast preparation under progress.

- xxvii) PCH ele. Room:** Slab cast preparation under progress. **xxviii)TP- 7 Ele. Room:** Slab cast preparation under progress.
- **Fabrication of Structures for BoP** – 7078 MT out of estimated 11225 MT completed so far.
 - **CHIMNEY:-** Platform secondary member erection under progress. Flue can (1st Set) assembly inside Chimney under progress
 - **NDCT UNIT # 10:-** Shell cast completed .**NDCT UNIT # 11:-** Manual lift cast (4/5) under progress (height-15.5 mtrs).
 - **RAW WATER / PT PLANT / DM PLANT:- Raw water Intake Pump House:** - Pump erection under progress, 1no. Pump erected Balance pump erection under progress**MCC Room:-** PMCC & transformer erection is under progress.**6.6 KV O/H Supply from SCH C/R :-** Pole grouting is in progress. **Raw water pipeline:-** Excavation, welding/hydro test/ laying is in progress. 3600/4300 RM pipeline laid.**Clariflocculator:** –Mechanical erection is in progress.**Cascade aerator & Bypass channel:** – RCC works completed.**Stilling Chamber –** RCC work completed.**Flash Mixer –** Mechanical erection completed.**DM Tank-1–**Erection completed.**DM Tank-2 –** Erection completed.**Neutralization Pit –** Acid proof tiling nearing completion. Pump & motor erection completed. **DM Plant Building:** - Vessels erection completed. Pump erection completed. **Chemical House:** - Column cast up to roof completed. Finishing work under progress.
 - **OIL DYKE AREA:- HFO Tank-**Erection nearing completion.**LDO Tank-**Erection nearing completion.
 - **ASH HANDLING SYSTEM:- AHP Building Complex:** - Brick work is in progress. Roof cast at 9.9 mtrs completed. Crane beam cast under progress**Vacuum Pump House unit #10:** Roof cast preparation under progress. **Vacuum Pump House unit #11:** Tie beam cast completed.**HCS D Pump House:** Slab cast for electrical room completed. **Ash Silo -1 :-** Shell cast completed. Slab cast completed **Ash Silo -2 :-** Shell cast completed. **.BA Hopper Unit 10:-** Mechanical erection under progress.**Ash Slurry Pipe line :-** Pipeline laying completed – 6080 / 52,000 RM.Pedestal cast (547/1100).
 - **ASH DYKE:- BA Pond:** Embankment construction nearing completion. RCC for collecting well under progress. Toe drain construction under progress.Ash filling under progress.**HCS D Pond:** . Embankment construction under progress. Rock toe construction under progress.
 - **CW/Clarified Pump house complex:- CW pump house:** - Pump floor cast completed. Column cast above pump floor under progress**Common Intake channel:** Cross beam cast 14/14 completed.**Intake Channel towards Unit #10:-** Wall cast nearing completion.**Intake Channel towards Unit #11:-** Wall cast nearing completion.**Clarified water pump house & its reservoir:-** 2nd & 3rd lift wall cast preparation under progress.**CW pipeline:** Pipe laid for 750RM / 1200 RM, further work for laying in progress. **Clarified water Ele. Annex Building:-** Raft Cast is under progress,column up to plinth beam completed.
 - **SWITCHYARD CONTROL ROOM BUILDING and Switchyard:- Switchyard control room: -** Civil finishing work under progress. **Switchyard:-** Tower/ Gantry, eqpt. Structure & earthing erection/laying is in progress. Tower : 30/35; Gantry : 12/ 31; 3 Gantry assembly completed, Eqpt. Structure: 155/287; earthing : 2350/16,066 RM erection completed.Disc insulator erection started and is in progress-820/11346 nos. completed. Stringing of conductors started.**Cable trench :-** 525/600 RM completed.
- III) Railway siding:-** OHE-S&T ; ESP Approval granted by CR. Revised Estimate submitted by Barsyl to DRM Nagpur. C.R. Nagpur is to take up the work on deposit basis. Amount against Demand note for OHE/ S&T is received from PFC and deposited to C.R. Nagpur.
- IV) Site Facilities- Civil work;** Leveling & Grading of BTG & BoP and Other General site development work like school building, Bus stand, Boundary wall, retaining wall, storage sheds etc. and gate complex etc. completed.
