

**MINISTRY OF POWER**  
**PROJECT MONITORING SYSTEM**

**STATUS ENDING AUGUST, 2012**

PROJECT NAME	GOINDWAL SAHIB THERMAL PROJECT.
STATE/ DISTRICT	PUNJAB/TARN TARAN
CAPACITY (MW)	2X270MW
FUEL	PULVERISED COAL
DATE OF REGISTRATON OF COMPANY/REGISTERED NAME OF COMPANY	M/S GVK POWER (GOINDWAL SAHIB) LIMITED HYDERABAD
ESTIMATED COST/DATE OF ESTIMATE (IN CASE OF TEC CLEARED PROJECTS, INDICATE COST AS PER TEC)	RS. 2963.81 CR.
AWARD DATE (FOR PROJECTS UNDER ECB ROUTE)	(G) ISSUED ON 18 <sup>TH</sup> MAY, 1998 BY GOVT. OF PUNJAB
WHETHER PPA INITIALLED/SIGNED, DATE OF THE SAME	AMENDED & RESTATED PPA SIGNED ON 26.05.09.
COST OF PROJECT.	RS. 2963.81 CR. (REVISED AFTER APPELLATE TRIBUNAL ORDER DATED 8.04.09) ESTIMATED BY THE CO.
DEBT	90% - I.E. RS. 2371.048 CR.
EQUITY	20% - RS. 592.762 CR.
TOTAL	100% - RS. 2963.81 CR.
ACTUAL EXPENDITURE ON PROJECT	ACTUAL EXPENDITURE INCURRED TILL DATE:
DEBT	A) LAND : 167.75 CRORES
EQUITY	B) BIG, BOP, NON-EPIC, PREPARATIVE EXPENSES, FINANCE CHARGES, (INCLUDING IDC)
TOTAL	TOTAL AMOUNTS SPEND SO FAR UP TO - <b>Rs. 2382.00</b> (CRORES) (TILL AUGUST 2012).
FIN. INFLOW	NOT KNOWN
SANCTIONS	
ACTUAL SO FAR.	
COST PER MW	RS. 5.489 CR. ( BASED ON CAPITAL COST APPROVED BY THE APPELLATE TRIBUNAL,
INDICATED TARIFF	RS. 2.94 PER KWH (TEMPORARY FOR 1ST YEAR)

1991 YEAR LEVELLISED.	LEVELLISED TARIFF- RS. 2.63 (ESTIMATED)
STATUS OF CEA CLEARANCE	NOT REQUIRED AS CONVEYED BY GOVT. OF PUNJAB VIDE ITS MEMO NO. 10/77/95 IP(3)/2086 DATED 31.1.2001.
LIKELY DT. OF FINANCIAL CLOSURE.	❖ THE FIRM HAS CONFIRMED THAT FINANCIAL CLOSURE HAS BEEN ACHIEVED ON 21.05.2010. IDBI IS THE LEAD LENDER.
ENVIRONMENT CLEARANCE	NOC FROM MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA OBTAINED BY THE CO. ON 23.9.1999. DUE TO DELAY IN PROJECT FRESH ENVIRONMENTAL CLEARANCE HAS BEEN OBTAINED FOR THE PROJECT ON 09.05.2008.
LAND AVAILABILITY	<ul style="list-style-type: none"> <li>❖ 1074.615 ACRES OF LAND HAS BEEN ACQUIRED.</li> <li>❖ RAILWAY SIDING FROM KHADUR SAHIB TO SITE (37.03 ACRES), RIVER WATER PIPELINE CORRIDOR (1.40) ACRES.</li> <li>❖ AWARD FOR 37.98 ACRES WAS ISSUED ON 15.07.2011, MUTATION IS IN PROGRESS. SITE POSSESSION IS YET TO BE GIVEN.</li> </ul>
OTHER REQUIRED CLEARANCES	<ul style="list-style-type: none"> <li>• NOC FROM PUNJAB POLLUTION CONTROL BOARD OBTAINED BY THE CO. VIDE LETTERS DATED 30.4.1999 &amp; 31.5.1999. ENVIRONMENTAL CLEARANCE FROM MOEF HAS BEEN OBTAINED FOR THE PROJECT VIDE LETTER DATED 9.5.08.</li> <li>• UNDER SECTION 29 OF ELECTRICITY SUPPLY ACT 1948 THE SCHEME WAS PUBLISHED IN THE STATE GAZETTE ON 19.2.1999.</li> <li>• UNDER SECTION 18(A) OF THE ELECTRICITY SUPPLY ACT, 1948, ORDER OBTAINED FROM GOVT. OF PUNJAB TO ESTABLISH, OPERATE &amp; MAINTAIN THE SCHEME. FRESH PPCB CLEARANCE FOR ESTABLISHMENT HAS BEEN OBTAINED.</li> <li>• NOC OBTAINED BY THE CO. FROM NATIONAL AIRPORTS AUTHORITY OF INDIA VIDE LETTER DATED 21.10.1999. CLEARANCE FROM AAI FOR 275 M TALL CHIMNEY HAS BEEN OBTAINED.</li> <li>• NOC OBTAINED BY THE CO. FROM THE CHIEF OF STAFF, WESTERN COMMAND, CHANDIMANDIR VIDE LETTER DT. 31.8.1998.</li> <li>• NO OBJECTION CERTIFICATE FROM FOREST DEPARTMENT IS OBTAINED.</li> <li>• GIE APPRAISAL CLEARANCE IS OBTAINED.</li> <li>• FOREST DEPARTMENT CLEARANCE FOR APPROACH ROAD HAS BEEN OBTAINED VIDE LETTER DATED 21.11.2009 AND THE COMPANY HAS PAID THE NECESSARY FEE TO ISSUE THE NOC. AN AFFIDAVIT HAS ALSO BEEN SUBMITTED TO FOREST</li> </ul>

	<p>DEPARTMENT AS PER THE RECENTLY CHANGED GOVERNMENT RULES TO RELEASE THE NOC.</p> <ul style="list-style-type: none"> <li>• PUNJAB STATE GOVERNMENT GUARANTEE FOR THE PROJECT HAS BEEN SIGNED ON 29.3.2001.</li> <li>• THE COMPANY HAS ENTERED INTO WATER SUPPLY AGREEMENT WITH IRRIGATION DEPARTMENT, GOVERNMENT OF PUNJAB FOR SUPPLY OF 20 CUSECS OF WATER ON 29<sup>TH</sup> MARCH, 2001. REVISED AGREEMENT SIGNED ON 07.04.2010.</li> <li>• ORDERS FOR MAIN PLANT EQUIPMENT (BTG PACKAGE) PLACED ON M/S BHEL ALONGWITH 10% ADVANCE PAYMENT AMOUNTING TO RS.103 CRORE. NOTICE TO PROCEED HAS ALSO BEEN ISSUED ON 29.09.09. ENGINEERING WORK FOR THE SAME IS IN PROGRESS. BOP PACKAGE HAS BEEN EXECUTED WITH M/S PUNJ LLOYD LTD.ON 14.09.09 AND ADVANCE OF RS.5 CRORE HAS BEEN PAID. ENGINEERING WORK FOR BALANCE OF PLANT IS ALSO IN PROGRESS.</li> <li>• NON EPC WORK AWARDED TO M/S VERTEX PROJECTS LTD.</li> <li>• COAL SUPPLY AGREEMENT EXECUTED ON 6.6.2009.</li> <li>• M/S TCE CONSULTING ENGINEERS LTD., BENGALURU HAVE BEEN APPOINTED AS TECHNICAL CONSULTANTS AND M/S BARSYL ARE APPOINTED AS TECHNICAL CONSULTANTS FOR RAILWAY SIDING WORK. M/S SIRAJ AND RENU, BENGALURU HAVE BEEN IDENTIFIED FOR THE ARCHITECTURAL CONSULTACY WORK FOR PLANT, NON-PLANT AND COLONY BUILDINGS.</li> </ul>
FUEL LINKAGE	<p><b>A. TOKISUD NORTH BLOCK:</b></p> <ul style="list-style-type: none"> <li>• TOKISUD NORTH COAL FIELD ALLOTTED AS A CAPTIVE COAL MINE AND THE DEVELOPMENTAL ACTIVITIES ARE UNDER PROGRESS.</li> <li>• SANCTION OF MINING PLAN: SANCTIONED VIDE MOC LETTER NO. 13016/25/2005-CA-I DATED 05.04.2006.</li> <li>• LAND ACQUISITION: ACQUIRED 452 ACRES (NON-FOREST LAND) OUT OF 480 ACRES (94%) DIRECTLY FROM THE OWERNS. MINING OPERATIONS CAN BEGIN WITH THE LAND ACQUIRED SO FAR. THE BALANCE LAND IS BEING ACQUIRED THROUGH LA ACT AND AN APPLICATION WAS FILED IN THIS REGARD IN THE FIRST WEEK OF FEBURARY '2012. THE COMPANY HAS REMITTED AN AMOUND OF RS. 2.46 CRORES AS DEMANDED BY THE STATE GOVERNMENT FOR TRANSFER/LEASE OF 40 ACRES OF GOVERNMENT LAND. FILE IS BEING PROCEESED AT SECRETARY LEVEL.</li> <li>• FOREST CLEARANCE: THE COMPANY HAS OBTAINED STAGE-II CLEARANCE FROM MOEF VIDE LETTER NO.</li> </ul>

FILE NO. R 26/2009 F.C. DATED 28.12.2011 FOR INVESTMENT OF 926 ACRES FOREST LAND.

- THE COMPANY IS IN THE PROCESS OF TRANSFER AND RELOCATION OF THE COMPENSATORY AFFORESTATION LAND IN FAVOUR OF GOVERNMENT OF JHARKHAND, WHICH IS EXPECTED TO BE COMPLETED BY MAY 2012.
- MINING LEASE: GOVERNMENT OF JHARKHAND (GOJ) HAD ISSUED THE SANCTION ORDER VIDE NO. CO/HAZAR-25/2007/M/RANCHI DATED 17.01.2009. EXECUTED MINING LEASE WITH GOVT. OF JHARKHAND ON 05.08.2010.
- ENVIRONMENT CLEARANCE: MOEF HAD GRANTED ENVIRONMENTAL CLEARANCE VIDE LETTER NO. J-11014/10/2006 IA II (M) DATED 24.09.2008.
- REHABILITATION AND RESETTLEMENT: R & R PROPOSAL WAS APPROVED BY DEPUTY COMMISSIONER VIDE MEETING HELD ON 07.05.2010. COMPLETED SURVEY FOR ELIGIBLE PROJECT AFFECTED FAMILIES FOR HOUSES IN R & R COLONY. COMPANY HAS ISSUED LETTER OF INTENT (LOI) TO M/S SANJAY CONSTRUCTION BOKARO, RANCHI FOR CONSTRUCTION OF R&R COLONY PHASE-1 FOR AN AMOUNT OF RS.5,92,17,578/-
- BRIDGE ON RIVER DAMODAR FOR TRANSPORT OF COAL ETC. THE COMPANY PROPOSES TO CONSTRUCT A BRIDGE ON DAMODAR RIVER TO ACCESS THE COAL BLOCK FROM TOKISUD SITE AND HAS AWARDED THE WORK TO M/S NARAYAN CONSTRUCTIONS ON 10.01.2009. NOTICE TO PROCEED (NTP) WAS ISSUED ON 16.08.2010 AND OPEN FOUNDATION FOR P1 TO P4 PIPES COMPLETED AND FOUNDATION FOR P5 UNDER PROGRESS.
- RAILWAY SIDING: CONSTRUCTION OF RAILWAY SIDING IS IN FULL SWING.
- TOPOGRAPHICAL SURVEY AND BOUNDARY FIXING OF MINING LEASE AREA: 50% OF THE WORK IS COMPLETED WITH THE CO-OPERATION OF DEPARTMENT OF FORESTS.
- THE PROCESS FOR SELECTION OF MDO IS COMPLETED. THE COMPANY HAS OPTED TO UNDERTAKE THE WORK ON ITS OWN AS PER THE PROVISION OF APTEL ORDER DATED 13.01.2011.

#### **B. SEREGARHA COAL BLOCK:**

- SEREGARHA COAL BLOCK IN JHARKHAND WAS ALLOCATED TO M/S ARCELOR MITTAL INDIA LIMITED AND GVK POWER (GOINDWAL SAHIB) LIMITED VIDE MINISTRY'S LETTER NO. 38011/2007-CA-1 DATED 09.01.2008.
- JOINT VENTURE AGREEMENT: JV COMPANY BETWEEN GVK POWER (GOINDWAL SAHIB) AND ARCELORMITTAL INDIA LIMITED UNDER THE NAME "SEREGARHA MINES LIMITED" WAS INCORPORATED ON 18.03.2009.

	<ul style="list-style-type: none"> <li>• EXPLORATION PLAN: EXPLORATION PLAN WAS PREPARED BY CMPDIL VIDE ITS LETTER NO. CMPDI/BD/C(731)/369 DATED 06.07.2009.</li> <li>• BANK GUARANTEE: THE SEREGARHA MINES LIMITED (JV) HAD SUBMITTED BANK GUARANTEE ON 08.04.2008 FOR RS. 32.40 CRORES TO MOC AS REQUIRED BY THE SANCTION LETTER, ITEM NO. 2(IX). THE BANK GUARANTEE WAS FURTHER RENEWED UP TO 07.04.2012.</li> <li>• GRANT OF PROSPECTING LICENSE: GOVT. OF JHARKHAND GRANTED PROSPECTING LICENSE VIDE LETTER NO. 1684 DATED 20.09.2010. THE COMPANY HAD CONCLUDED THE PROSPECTING LICENSE WITH THE GOVERNMENT ON 03.03.2011.</li> <li>• FAC HAS CLEARED THE PROPOSAL VIDE ITS MEETING HELD ON 31.05.2011. MOEF HAS ACCORDED ITS PERMISSION VIDE LETTER F.NO. 8-20/2011-FC DATED 01.07.2011.</li> <li>• TOPOGRAPHICAL SURVEY: TOPOGRAPHICAL SURVEY IS COMPLETED.</li> <li>• EXPLORATION: THE EXPLORATION AGENCY M/s NARESH KUMAR &amp; CO., HAS COMPLETED THE DRILLING OF FOURTEEN BOREHOLES FOR A MATERAGE OF 4417 Mtrs.</li> <li>• TRANSFER OF LAND FROM CCL: RS. 112 LAC PAID TO CENTRAL COALFIELDS LIMITED AS NOTIONAL EXPENDITURE FOR TRANSFER OF LAND ACQUIRED UNDER CB ACT, ON 02.07.2009. CCL HAS APPROVED TO SURRENDER OF ITS MINERAL RIGHTS IN FAVOR OF JV COMPANY i.e SEREGARHA MINES LIMITED. THE PROCFESS FOR TRANSFER IS IN PROGRESS.</li> </ul>
DATE/PRESENT STATUS OF SIGNING OF FUEL SUPPLY AGREEMENT	GVK INDUSTRIES LIMITED HAS PROMOTED A SPECIAL PURPOSE COMPANY TO DEVELOP THE PRIVATE COAL MINE BLOCK WHICH HAS EXECUTED THE FUEL SUPPLY AGREEMENT WITH GVK POWER GOINDWAL SAHIB LIMITED ON 06.06.2009.
DATE/PRESENT STATUS OF SIGNING OF FUEL TRANSPORTATION AGREEMENT	M/S GVK HAS SIGNED THE COAL TRANSPORTATION AGREEMENT WITH INDIAN RAILWAYS FOR GOINDWAL SAHIB POWER PROJECT ON 11.12.2008.
NAME OF PROMOTERS WITH THE COUNTRY OF ORIGIN, THEIR EQUITY PARTICIPATION	M/S GVK INDUSTRIES LTD. HAS FORMED A COMPANY M/S GVK POWER (GOINDWAL SAHIB) LIMITED TO EXECUTE THE PROJECT.
FINANCING PACKAGE PLAN EQUITY (IN MILLION) DEBT (IN MILLION) DETAILS OF ESCROW FACILITY	DEBT TO EQUITY OF 80: 20  THE ESCROW AGREEMENT IN THE FORMAT AS AGREED BETWEEN THE PSFB, PSFBs BANKERS STATE BANK OF PATALA AND M/S GVK HAS BEEN SIGNED BY THE THREE

			PARTIES ON 4.6.09.
LEAD INDIAN FINANCIAL INSTITUTION;			INDUSTRIAL DEVELOPMENT BANK OF INDIA (IDBI)
POWER EVACUATION FACILITY			TO BE COMPLETED BY PSEB 7 MONTHS PRIOR TO COD.  <b>❖ ERECTION OF TRANSMISSION LINES AND SUBSTATION BAYS FOR EVACUATION OF POWER</b> CHIEF ENGINEER/TL HAS BEEN ASKED TO TAKE UP THE WORK OF ERECTION OF TRANSMISSION LINES FROM THE PROJECT TO THREE NOS. 220 KV SUB STATIONS AT KHASSA (AMRITSAR), BOTTIANWALA (FEROZEPUR) AND SULTANPUR (KAPURTHALA) AND CHIEF ENGINEER/SUB STATION HAS BEEN ASKED TO TAKE UP WORK OF CONSTRUCTION OF BAYS FOR THREE NOS. D.C.LINES FROM THE PROJECT TO THESE SUB STATIONS FOR EVACUATION OF POWER FROM THE PROJECT TO THE GRID. THE STATUS OF TRANSMISSION LINES ASSOCIATED WITH GOINDWAL SAHIB PROJECT IS AS UNDER:-  <b>1. 220 KV GOINDWAL SAHIB-KHASSA DC LINE</b>  THE ROUTE SURVEYED. THE SCOPE NEEDS TO BE REVISED AS THE SPACE FOR BAY AT KHASSA NOT AVAILABLE.  <b>2. 220 KV GOINDWAL SAHIB-SULTANPUR DC LINE</b>  THE WORK OF THIS LINE IN PROGRESS. STUBBING OF 12 OUT OF 58 NO. TOWERS HAVE ALREADY BEEN COMPLETED.  <b>3. 220 KV GOINDWAL SAHIB-BOTTIANWALA DC LINE</b>  THE SURVEY OF THIS LINE HAS BEEN CARRIED OUT, ROUTE PLANT PREPARED AND IS UNDER APPROVAL.  BTG PACKAGE EXECUTED WITH M/S BHEL ON 06.02.2009 & NOTICE TO PROCEED ISSUED ON 29.09.2009. BOP PACKAGE AWARDED TO M/S PUNJ LLOYD EXECUTED ON 14.09.2009 AND NOTICE TO PROCEED HAS BEEN ISSUED.
SIGNING OF EPC CONTRACT & EPC CONTRACTOR			BTG PACKAGE EXECUTED WITH M/S BHEL ON 06.02.2009 & NOTICE TO PROCEED ISSUED ON 29.09.2009. BOP PACKAGE AWARDED TO M/S PUNJ LLOYD EXECUTED ON 14.09.2009 AND NOTICE TO PROCEED HAS BEEN ISSUED.
SIGNING OF O&M CONTRACT/O&M CONTRACTOR			UNDER FINALISATION BY THE CO.
GESTATION PERIOD			36/42 MONTHS FROM THE FINANCIAL CLOSURE.

DATE OF LIKELY START OF CONSTRUCTION/ACTUAL DATE IF CONSTRUCTIONS HAS COMMENCED	FOUNDATION FOR START OF CONSTRUCTION ACTIVITY LAID ON 18.10.08. BHOOMI PUJAN FOR START OF CONSTRUCTION WORK DONE ON 9.6.2009 AND THE SAME IS IN PROGRESS.
ANTICIPATED COMPLETION DATE	WITHIN 36 MONTHS FROM THE DATE OF FINANCIAL CLOSURE FOR FIRST UNIT AND 6 MONTHS THEREAFTER FOR SECOND UNIT. AS THE FINANCIAL CLOSURE HAS BEEN ACHIEVED ON 21.05.2010, THEREFORE, THE SCHEDULED COMMISSIONING OF THE PROJECT IS MAY, 2013 AND NOVEMBER, 2013.
PRESENT STATUS OF CONSTRUCTION;	<ul style="list-style-type: none"> <li>• <b>MAIN PLANT- BTG CONTRACT ON M/S. BHEL, NEW DELHI.</b></li> </ul> <p><b>BTG SCOPE:</b></p> <p><b>ACTIVITIES COMPLETED</b></p> <p><b>Boiler Unit# I:</b></p> <ul style="list-style-type: none"> <li>• Structural erection --3170/3571 MT completed.</li> <li>• Pressure part erection -- 2620/2640 MT completed.</li> <li>• DUCT-- 494 MT/ 1070 MT completed.(Total 910 MT needed for BLU).</li> <li>• Total erection-- 10891 MT / 13597 MT completed.</li> <li>• Total joints--14164/15776 approx. completed.</li> <li>• Joints Radio graphed -- 1256/1757 completed.</li> </ul> <p><b>Insulation:-</b></p> <ul style="list-style-type: none"> <li>• Cast able- 42/70 MT completed.</li> <li>• Boiler wool- 61/74 MT completed.</li> <li>• Pourable refractory- 67/140 MT completed.</li> </ul> <p><b>Boiler Unit# I AUX:</b></p> <ul style="list-style-type: none"> <li>• ESP -2683 MT / 3045 MT erection completed.</li> <li>• FANS -155 MT/206 MT erection completed.</li> <li>• APH- 528 MT/ 540 MT erection completed.</li> <li>• Mills- 520/525 MT completed.</li> <li>• Piping- 309/709 MT completed.</li> </ul> <p><b>Boiler Unit# II:</b></p> <ul style="list-style-type: none"> <li>• Boiler HT planned on 05.09.12 [0/10700 Joints pending], joints required for drainable HT completed</li> <li>• Boiler Structural erection-- 2628/3571 MT completed.</li> <li>• Pressure part erection --2318 MT/ 2640 MT completed.</li> <li>• Boiler total erection-- 7425 MT / 13597 MT</li> </ul>

completed.

- Joints Welded-- 10034 / 14009 completed.
- Joints Radio graphed - 1076/1268 completed.

#### **Boiler Unit # II AUX:**

- ESP- 2421 MT / 3045 MT completed.

#### **Turbine & Auxiliaries- Unit# I:**

- All BFPs placed BFD discharge, suction and its re-circulation piping erection completed.
- Lube oil line of BFP erection completed and its welding completed.
- DMCW piping pertaining to BFP system completed.

#### **Turbine**

- TG Box- Up planned for 28/09/2012.

#### **Electrical & C & I:**

- ST # 1: Oil filtration completed.
- In CCR, 114 panel alignment completed. Earthing of all panels completed.
- UPS room: All panels shifted and erection work completed.
- Generator Transformer # 1 placed on foundation and erection work completed.
- ST# 1: Oil filtration work completed.
- UAT # 1 : erection work completed, waiting for clearance of Oil filtration from customer
- ESP Control room: All panels shifted.

#### **Turbine & Auxiliaries- Unit# II:**

##### **TG**

- HP heater 5 & 6 placed on foundation alignment and grouting completed.
- MOT, Turbine oil, oil centrifuge placed and aligned, grouting completed.
- Condenser Box Preparation completed.
- HP heater 5 & 6 placed on foundation alignment and grouting completed.
- Hollowness rectification in support plates below TG deck completed.
- Bearing pedestal erection completed.

#### **Electrical & C & I Unit # II:**

- Station Transformer: Erection work completed.

**ACTIVITIES UNDER PROGRESS:**

- Boiler Unit # 1: Refractory Insulation Work, Coal piping work in progress.
- Boiler Unit # 2: Air leak test started. Approach platform work under progress.
- ESP Unit # II: Pass A- Internal gauging, outer roof and Erection of transformers under progress.
- ESP Unit # II: Pass B-Hoppers welding under progress.
- Turbine Unit #I: HP/LP/IP CRO under progress. 2 nos. pedestal torus double pin preparation under progress.
- Condenser Unit #I: Welding and H & S under progress.
- DMCW piping: welding and H & S under progress.
- ACW, DMCW and DMCW SG piping under progress.
- Lube oil line of exciter side in progress.
- NAOH dosing skid erection alignment and grouting under progress.
- T.S & G.S seal body erection under progress.
- Exciter and generator alignment under progress.
- TG Unit # II: Condenser Side walls welding under progress.
- CCR: Inter panel cabling under progress.
- UPS Room: Earthing work under progress.
- Station Transformer: Filtration under progress.

**BOP SCOPE:****ACTIVITIES COMPLETED****Power House Building Unit# II:**

- Roof casting up to Grid 16/18 Completed.

**Electrical Bay:**

- Battery bank at 11.5 meter unit battery charging completed.
- 0 meter slab casting completed.

**Control & Instrumentation work:**

- In UPS-1 all the panels charged
- In DM plant SM Boxes installation completed.

**Air Washer Room Foundation Work:**

- COT/DOT foundations casting completed.
- 9m Slab casting completed.

**Compressor House:**

- Air driers erection completed.

**Transformer Yard Foundation Work:**

- ST-1 jumpering completed.

**Mill Bay Unit# I:**

- Erection works (2400/2650 MT erection completed).
- Trippler floor erection completed.

**Mill Bay Unit# II:**

- Bunker stub column (5/5) and skirt garter (4/5) erection completed.

**Bowl Mill: Unit# I:**

- 525/525MT erection Completed

**Switchyard**

- Electrical Inspector clearance given for charging 5/12 priority bays.
- 220 KV transmission line test charged successfully.

**Chimney:**

- 3/7 Flue cans erection completed.

**DM& PT Plant:**

- DM building – All the vessels placed on its position & Frontal piping also 100% completed.
- Filter water pump house – Pump erection completed.
- Filter water Switchgear room – Transformer placed.

**CHP-Civil works:**

- BCN-2-60% completed.
- BCN-3-95% completed.
- BCN-4-Underground work 80% completed.
- TH-3- Wall casting up to (-) 7.8 Meter completed.
- TH-2-(-7m) slab casted.
- FPH - Excavation up to -14.5 Meter completed.
- Stock Pile Raft Completed.
- ER-1 – Column work completed.
- ER-3 – Column work completed.

### **Fabrication & Erection Work**

- Structural Fabrication - 3491 out of 4200MT fabrication completed.
- Structure erection - 3227 MT completed.
- BCN-4 - 80% Structural steel erection work completed.
- BCN-9 100 % Structural Steel erection work is completed.
- INT-1 - 50 % Structural Steel erection work is completed.
- **Crusher House**- 710/741MT erection completed
- **INT-2**- 80% Equipment erection work is completed.

### **IDCT-I:**

- 12 cells cylinders completed.
- Hot water pipe line hydro test completed.

### **Cooling Water Pump House:**

- 6/6 pumps erected.
- 4/6 motor erection completed.
- One transformer & bus duct erection completed.
- Switch Gear building: -Civil works completed.

### **CW Channel & Pipe Line:**

- CW Pipe erection 863/1275MT.

### **LP Piping:**

- Pipe laying on PR-8A/8B/8C (100% completed).
- Raw water pump house to DM plant - 100% pipe laying completed.
- Ash water pump house to PR-8A - 90% completed.
- Grid "C" pipe laying in progress (40% completed)

### **River Water Intake:**

- Classion-1- (-) Back filling completed.
- Classion-2- (-) Back filling completed.
- Pier-A (-) Back filling completed.

### **Raw Water Pump House:**

- RWPH switchgears testing completed.
- Tray fixing & cabling completed.

### **Pipe rack Mechanical:**

- PR 6D- 100% Completed.
- Grid C-1 - 100% Completed.

- PP-10 - 90% erection Completed

### **ACTIVITIES UNDER PROGRESS**

#### **Main Plant**

##### **PHB:**

- Window fixing in Progress.
- Gable end cladding in progress.
- CW & ACW pumps erection and alignment completed and piping work in progress
- PHB Unit # 1-Grade slab work and Drain work final lift at TG 0.0 meter is in progress (80% completed).
- PHB Unit # 1 - Instrument piping in progress.
- PHB Unit # 2 - Dosing foundations work in progress.
- Air Washer Room - Reinforcement binding for 21m Slab in progress.
- Air Washer Room - Excavation in progress for Plinth Beam. Welding in progress.
- HT/LT Switchgear Testing and bus duct erection in progress.
- Compressor house - Piping work in progress, Cable tray & cabling in progress. ◦

##### **Transformer Yard:**

- GT-I, UAT-I, - Commissioning In progress.
- GT-II - Foundation work in progress.

##### **Mill Bay Unit #I:**

- Tripper Floor and Hopper erection work, welding in progress

##### **Mill Bay Unit #II:**

- Deck Sheeting and reinforcement binding in progress.

##### **ESP Control Room:**

- Cable Tray and cabling in progress.

##### **Bowl Mill Unit # II:**

- Superstructure casting work started in progress

##### **Switchyard:**

- Bus-bar relay testing in progress.

##### **Balance of Plant**

##### **Chimney:**

- 4<sup>th</sup> Flue Can erection is in progress.

**DM & PT PLANT:**

- Neutralization Pit –Acid resistant lining in 2<sup>nd</sup> compartment in progress.
- Filter Water Storage Tank- Roof Slab casting in progress for Filter Water Storage compartments. 1<sup>st</sup> Compartment 85% completed.
- Filter water pump house - Brickwork and plastering work in progress.
- Filter water Switchgear room –Panel shifting in progress, Duct connection in progress.
- Sludge Thickener-Wall casting in progress.
- Filter water Switchgear room - Brickwork and Lintel beam in progress.
- Main Clariflocculator- Civil work in progress (90% completed).
- Dual Media Gravity Filter- Wall and Manifold pit casting in progress.
- Chemical House –column work in progress for 11.0m Slab.
- HRSCC- Mechanical erection is in progress.

**CHP:**

- Stack Reclaimer- Work is in progress for casting of balance 1no. of module.
- TH-2- Wall work in progress.
- TH-1- 0m Slab shuttering in progress.
- Stock Pile Raft Slab work under progress.
- Road side drain work under progress.
- Crusher House – 17.5m/19.0m/22.0m floor welding work under progress.
- EP-1- Roof slab shuttering in progress.
- ER-3- Lintel beam in progress.
- JNT-3 – Structural erection work in progress.
- BCN-5 - Structural erection work in progress.
- BCN-8A/B - Structural erection work, Equipment erection work in progress.
- Apron Feeder – Erection work in progress.

**IDCT-I:**

- Encasing work in progress.

**CW Channel & Pipe Line:**

- CW Pipe line encasement work is in progress.
- Erection work in progress.
- CW pipe line for Unit# I & Unit# II in progress.

**Cooling Water Pump House:**

- Switch Gear building – Panel shifting in progress.
- CW channel – wall work in progress.

	<p><b>LP Piping:</b></p> <ul style="list-style-type: none"> <li>• Pipe laying in PR-7B/7C/7A and PR-3A/3B in progress.</li> </ul> <p><b>FOPH:</b></p> <ul style="list-style-type: none"> <li>• Header piping in progress.</li> <li>• Fencing Work in progress.</li> <li>• LDO/HFO forwarding (BHEL) system erection in progress.</li> </ul> <p><b>Raw Water Intake:</b></p> <ul style="list-style-type: none"> <li>• Reinforcement for top plugging in progress for Classon-1, Classon-2 &amp; Pier-A.</li> <li>• Shuttering work for main well in progress.</li> </ul> <p><b>Raw Water Pump House:</b></p> <ul style="list-style-type: none"> <li>• Tray fixing and cabling in progress.</li> </ul> <p><b><u>NON PLANT INFRASTRUCTURE AND FACILITIES BY GVK:</u></b></p> <p><b>NON-EPC:</b></p> <ul style="list-style-type: none"> <li>• Compound wall - Construction completed</li> <li>• Ash pond construction is in progress.</li> <li>• Residential Colony work is in progress.</li> <li>• Fire station building work is in progress.</li> <li>• Green belt development is in progress.</li> <li>• Service building construction is in progress</li> <li>• Admin Building construction is in progress.</li> <li>• Canteen Building construction is in progress.</li> <li>• Stores construction is in progress.</li> <li>• Railway siding construction is in progress.</li> </ul> <p>❖ <b>MANPOWER AND EQUIPMENT AT SITE:</b></p> <ul style="list-style-type: none"> <li>• There are no incidents to report. There is no time lost due to injury or accident during the month. 9,329,871 man hours have been completed without any injury loss time.</li> </ul>
INVESTMENT MADE TILL DATE	<ul style="list-style-type: none"> <li>• AS INFORMED BY THE COMPANY - Rs. <b>2382.00</b> CRORES (TILL AUGUST 2012).</li> </ul>
<p>OTHER ISSUES</p> <p>a. LINKED PROJECTS (COAL, GAS OR OTHERS)</p> <p>b. INFRASTRUCTURE LINKAGES (RAIL/ROAD/COMMUNICATION)</p>	<p>AS ABOVE</p> <p>RAIL LINKAGE COMPLETED &amp; COMMISSIONED UPTO GOINDWAL SAHIB. LOCATED ADJOINING TO KAPURTHALA-TARN TARAN ROAD.</p>

c. ANY OTHER ISSUE	-
CRITICAL AREA	<ul style="list-style-type: none"> <li>• A TARIFF ORDER DATED 29.4.08 WAS ISSUED BY PSERC IN CASE OF PETITION NO.4 OF 2007 FILED BY M/S GVK FOR APPROVAL OF TARIFF IN WHICH PROJECT COST WAS APPROVED FOR RS. 2622.48 CRORES.</li> <li>• THE COMPANY FILED AN APPEAL ON THE ORDER OF PSERC WITH APPELLATE TRIBUNAL FOR ELECTRICITY, NEW DELHI THE TRIBUNAL GAVE ITS JUDGEMENT VIDE ORDER DATED 8.04.09. THE ESTIMATED COST OF THE PROJECT AS PER ORDER OF THE APPELLATE TRIBUNAL IS RS. 2963.81 CR.</li> <li>• THE PSERC HAS ISSUED ORDER DATED 6.03.09 IN THE CASE OF PETITION NO. 3 OF 2007 FILED BY PSEB FOR APPROVAL OF AMENDED &amp; RESTATED PPA WITH M/S GVK.</li> <li>• M/S GVK HAS FILED AN APPEAL IN THE APPELLATE TRIBUNAL AGAINST THE ORDER OF PSERC DT. 6.3.09 AND ALSO FILED AN INTERIM APPLICATION FOR ALLOWING THEM TO SIGN THE PPA WITHOUT PREJUDICE TO THEIR RIGHT OF APPEAL. THE HEARINGS OF THE APPEAL AND INTERIM APPLICATION WERE HELD ON 30.4.09 AND 19.5.09. THE APPELLATE TRIBUNAL ISSUED AN INTERIM ORDER DATED 19.5.09 GIVING LIBERTY TO BOTH THE PARTIES FOR SIGNING THE PPA AS PER THE ORDER OF PSERC.</li> <li>• THE AMENDED &amp; RESTATED PPA HAS BEEN SIGNED ON 26.5.09 AS PER THE ORDERS OF THE COMMISSION AND APPEAL HAS BEEN DISMISSED BY THE TRIBUNAL VIDE ITS ORDER DATED 13.01.11.</li> </ul>
AREAS OF CONCERN	<p><b>AREA OF CONCERN:</b></p> <ul style="list-style-type: none"> <li>• Construction Power Supply Tariff is being charged under "Temporary power Supply category" - A costly inconvenience - Request PSPCL to reconsider</li> <li>• Due to change in law Entry tax is being imposed on the project material at Punjab border. Due to this there will be an increase in project cost by about 10%.</li> <li>• Soil improvement through vibro compaction is increasing the project cost.</li> <li>• Excess length of pile than envisaged is increasing the project cost.</li> <li>• Increase in soil filling quantity due to heavy settlement during vibro compaction.</li> <li>• Increase in cost of railway siding as approved by Northern Railways.</li> <li>• Delay in material supply from BHEL Trlchy is affected BTG work progress adversely in Unit#2.</li> <li>• Railway corridor 16 acres of land possession is yet to be given and it results in delaying the railway siding work and in turn it delays the project</li> </ul>

	<p>commissioning.</p> <ul style="list-style-type: none"> <li>• Additional payment towards BOCW is being considered due to change in law which results in increasing the project cost.</li> </ul>
PRESENT ADDRESS OF THE COMPANY	PAYGANI HOUSE, 156-159, SARDAR PATEL ROAD, SECUNDERABAD- 500 003, ANDHRA PRADESH, INDIA
TELEPHONE NUMBER & FAX NO.	Off: 91-40-27902663, 64 Fax: 91-40-27902665
ANY ASSISTANCE REQUIRED.	

CE (PLG)

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**TALWANDI SABO THERMAL POWER PROJECT**

Name of the Power Project	Capacity	Scheduled COD	STATUS OF THE PROJECT
Talwandi Sabo TPP	1980MW(Gross)		
Unit-1	660MW	31.08.2012	As per the enclosure-I
Unit-2	660MW	31.12.2012	
Unit-3	660MW	30.04.2013	
Date of clearance by State Govt.	9/2006		
Est. approved cost	----		
Expenditure up to handing over the Power Project to the Successful bidder.	Appx. Rs.387Cr		
Financial closure	As per provisions under the Power Purchase Agreement the TSPL have not achieved the Financial Closure till date		
Type of Fuel	Coal		
Fuel linkage	7.72MTPA by Mahanadi Coal Field Limited— from Basundara Coalfields		
Date of main plant order	18.07.2009		
	EPC contract placed on M/S SEPCO Electrical Power Construction Corporation, Jinan,Shandon China.		
Power Evacuation	This system will be provided by erstwhile PSEB (now TRANSCO)		

## Development Status of 3x660MW(1980MW) Talwandi Sabo Thermal Power Project

**Note:-** TSPL have not supplied the progress report for the month ending July & August despite repeated requests. The status available with this office and as intimated by the TSPL is as under:-

- 3X660 MW(1980MW) is being developed at village Banawala, Distt. Mansa by Talwandi Sabo Power Limited (owned by M/s Sterlite Energy Limited w.e.f 01.09.2008, the date of PPA). The project is being developed on "BOO" basis under Case-2 through tariff based International Competitive Bidding process as per bidding guidelines issued by Ministry of Power, Govt. of India.

- Commercial Operation Dates (CoDs):-

	As per PPA	As per previous Intimation by TSPL	As per latest Intimation by TSPL
1 <sup>st</sup> Unit	31.08.2012.	08.11.2012	08.08.2013 ✓
2 <sup>nd</sup> Unit	31.12.2012.	08.02.2013	08.11.2013 ✓
3 <sup>rd</sup> Unit	30.04.2013	10.06.2013.	08.03.2014 ✓

- EPC- Contract: M/s SEPCO Electric Power Construction Corporation, Jinan, Shandon, China.

- Coal linkage: M/s Mahanadi Coal Fields Ltd. Sambalpur have already issued LOA to TSPL on 14.08.2008 for 7.72 MTPA coal linkage--Grade is E/F.

- Fuel Supply Agreement: • Yet to be signed by the TSPL.

- Water Linkage: 100 cusec water linkage obtained from Kotla branch.

- Land acquisition: 2113 acres of land acquired near Villages Banawala, Distt. Mansa. 193 acre land for rail and water corridor has been acquired.

**Overall Project Progress: 70%**

**The progress of the project as intimated by the TSPL is as under:-**

Major equipments for Main plant, BOP, Coal Handling Plant, Switchyard, Ash Handling Plant, others auxiliary & essential packages ordered. Approx.1,31,000 MT material dispatched from China, twenty two shipments from China & 21 cargos from third countries.

**Project Progress : Activities completed as on 30<sup>th</sup> June, 2012**

S.No	Activity Description*	Status
<b>Infrastructure Work</b>		
1	Road Diversion Work	Completed
2	Street Lighting Work	Completed
3	Plant Boundary Wall Work	Completed
<b>Civil Works</b>		
4	Test Piling Completion	Completed
5	Soil Investigation	Completed
6	Area Grading in Main Plant Area	Completed
<b>Foundation Works</b>		
7	Boiler Unit # 2	Completed
8	Boiler Unit # 3	Completed
9	Boiler Unit # 1	Completed
10	ESP Unit # 2	Completed
11	ESP Unit # 3	Completed
12	ESP Unit # 1	Completed
13	MPH Unit # 2	Completed
14	DM plant foundation	Completed
15	Switchyard foundation	Completed
16	Chimney raft foundation	Completed
17	Chimney slip form erection	Completed
18	NDCT Unit #2 ring foundation & pedestals for raker column	Completed
19	NDCT Unit # 2 raker column and ring beam construction	Completed
20	NDCT # 3 ring foundation work	Completed
21	NDCT # 1 ring foundation	Completed
22	Water Purifying house	Completed
23	Service water basin # 3	Completed
24	Chemical House	Completed
25	CWPH raft foundation work	Completed
26	Inclined plate filter	Wall construction completed
27	CHP-Wagon tippler,CRG # 3,5,6,10,11	Completed
28	HCSD # 1,2-Dewatering Bin,Settling and Surge tank	Completed
<b>Mechanical Works</b>		
1	Boiler # 2	Structure erection

		completed
2	Boiler # 1	Structure erection completed
3	DM Plant	Structure erection completed
4	Assay Building	Structure erection completed
5	CHP-Crusher House, CRG # 4,5,6,10	Structure erection completed

\* All activities are as per the revised schedule

### Project Progress – Activities under Progress

S No	Activity Description*	Status
<b>Infrastructure Work</b>		
1	Transit hostel	In Progress
<b>Civil Work</b>		
2	NDCT 2 shell construction	24 lifts completed
3.	NDCT 3 raker column construction	72% completed
4.	Chimney shell construction	Completed up to 27.5 m
5.	Chimney unit#2 flue can fabrication	50% completed
6.	MPH 1 foundation work	96% completed
7.	MPH 3 foundation work	86% completed
8.	Wagon tippler foundation work	Raft foundation completed, wall casting in progress, -4.2 m slab rebar in progress.
9.	Comprehensive water pump house	Super structure civil work in progress
10.	Service water basin # 3	Civil work completed, readiness for hydro test
11.	Raw water pump house	Civil structure completed
12.	Raw water reservoir	68% completed
13.	Railway siding	In plant yard track laying completed, Out plant yard track lying in progress, Bridges construction in progress.
14	HCSD	HCSD Pump House # 1,2

		foundation work completed.
	<b>Mechanical Works</b>	
15.	CW pipes erection	In progress
16.	Boiler 2 erection	74% Pressure parts welding completed
17.	Boiler 1 erection	31% welding completed
18.	Boiler 3 erection	5 <sup>th</sup> tier structural erection in progress
19.	ESP 2	Structure erection completed. Nozzles lifting in progress. FF casing lifting in progress. Collecting frame erection in progress.
20.	MPH # 2	Structure erection 70% completed
21.	MPH # 3	Structure erection in progress
22.	MPH # 1	Structure erection in progress
23.	DM plant	Roof slab casted. Switchyard erection completed ,equipment erection completed up to 90% cable tray work in progress in assay building
24.	Water purifying house	Equipment erection completed
25.	Inclined plate filter basin	Mechanical works in progress
26.	Raw water basin & pump house	Pump erection in progress.
27.	Pipe rack	Erection work in progress.
28.	Crusher house and CSR	Structure erection , SR erection in progress
29.	NCB/CCB	Panel erection in progress
30.	HCSD	Unit # 2 Dewatering bin, settling and surge tank mechanical works already completed. Pump erection in progress
31.	Instrument Air Compressor	Compressor erection in progress.

\*All activities as per the revised project schedule

### **Other Supporting Infrastructure & Facilities:**

#### **Railway link & siding**

- » Out plant, RUBs 8/8 box completed and culverts work is in progress
- » Out plant yard track laying in progress. Canal Bridge girder erection completed. Road Bridge girder erection in progress.
- » Cable laying in progress for signaling work at in plant.
- » Fly over civil work in progress.

#### **Water conveyance**

- » Pump house & buffer tank civil works in progress.
- » Pipe laying completed. Hydro test preparatory work in progress.
- » Overall progress- 80% progress achieved.

#### **Water reservoir**

- » Excavation and embankment work completed.
- » Precast tiles lying in progress. PVC pipe and HDPE laying in progress

#### **High concentration slurry disposal**

- » Unit # 2 Dewatering bin, settling and surge tank mechanical work completed.
- » Pipe laying upto Ash dyke completed. Unit # 1&2 Pump erection completed.

**Manpower:-** About 6600 manpower working at site.

**Following Twin Moose DC on DC lines of 400 KV approved for evacuation of power:**

- a) 440 KV Talwandi Sabo to 400 KV Nakodar with LILO of one Ckt at 400 KV PGCIL Moga.
- b) 400 KV Talwandi Sabo to 400 KV Mukatsar.
- c) 400 KV Mukatsar to 400 KV Mastewal (Makhu). 400 KV Talwandi Sabo to 400 KV Dhuri.
- d) 400 KV Mastewal to 400 KV Bala Chak Amritsar.

The evacuation lines have been ordered for execution by M/s PGCIL.

RAJPURA THERMAL POWER PROJECT			
Name of the Power Project	Capacity	Scheduled COD	Present status of the Project
Rajpura Thermal Power Project	1400MW (Gross)		
Unit-1	700MW*	Jan, 2014	
Unit-2	700MW*	May,2014	
Date of clearance by State Govt.	State Govt. had cleared the project in 9/2006		
Est. approved cost	-----		
Expenditure up to handing over the Power Project to the Successful bidder.	Appx. Rs.542 Cr		
Financial closure	Documents submitted by the firm are under scrutiny		
Type of Fuel	Coal		
Fuel linkage	5.55MTPA from South Eastern Coalfields Limited (SECL.) –from Korba Raigarh fields.		
Date of main plant order	EPC contracts signed with M/s Larsen & Toubro Ltd. on 16.07.2010 with effective date of contract as 18.01.10.		
Power Evacuation	Facility to be provided by erstwhile PSEB (now TRANSCO)		

\* Unit configuration changed by the developer from 2X660MW to 2X700MW as per provisions of the PPA

**Development Status of 2X700MW RAJPURA THERMAL POWER PROJECT ending  
August,2012**

2X700MW(1400MW) Rajpura TPP is being developed at village Nalash near Rajpura Distt. Patiala by Nabha Power Limited (owned by M/s L & T Power Development Limited w.e.f 18.01.2010, the date of PPA). The project is being developed on "BOO" basis under Case-2 through Tariff based International Competitive Bidding process as per bidding guidelines issued by Ministry of Power, Government of India.

- The CODs of 1<sup>st</sup> & 2<sup>nd</sup> Units of the project are 17.01.2014 & 17.05.2014 respectively.
- EPC contractor: M/s Larsen & Toubro Ltd.
- Coal linkage: M/s South Eastern Coalfields Ltd. Bilaspur (Chhatisgarh) issued Letter of Assurance (LOA) to NPL for the coal linkage of 5.55 MTPA. Fuel Supply Agreement yet to be signed. Due to change in Unit configuration, application for additional coal linkage submitted by NPL to Ministry of Coal, Govt. of India. Standing linkage committee (SLC) has approved enhancement of capacity to 2x700 MW.
- Water Linkage: Irrigation Deptt., Punjab Govt. allocated water linkage on 09.05.2008 & 14.07.2010 (for the revised capacity of 2x700 MW).
- Land acquisition: Main Plant:-1078.16 acre of land acquired.  
Railway corridor (127 acres):- Land acquisition for railway corridor— Disbursement for 75 acres completed, 20 acres disbursement to start and remaining award to be released.
- Railway Corridor: PO issued to L&T-Railway Business Unit for Design, Engineering, Construction & Commissioning of Railway siding. Railway siding in plant linking works completed. Works in lead line stated. Engineering scale plan (ESP) for railway siding approved.

**Overall Project Progress: 55%**

**The progress of the project as intimated by NPL is as under:-**

- » DPR for 2X700MW finalized.
- » Major equipment for main plant, BOP, Coal Handling Plant, Ash Handling Plant, others auxiliary & essential packages ordered and partly received.
- » Amendment in MOEF clearance for the project received on 15.11.2010
- » Renewal of "NOC" from Punjab Pollution Control Board obtained, valid up to 19.09.2013.
- » Tata Consulting Engineers (TCE) Ltd. appointed as Owner's Engineer.

- » Soil Investigation, Contour & Topographical Survey completed.
- » Approval for Change in Land Use obtained from Chief Town Planner, Pb. on 10.06.2010.
- » Design & Engineering work in progress- 97.5% completed.

■ **SITE PROGRESS**

Sr No.	Name of Work	UOM	Physical Progress		
			Cumulative Till July 30,2012	For the Month of August 2012	Cumulative. till August 31,2012
<b>A</b>	<b>CIVIL</b>				
<b>I</b>	<b>PILING</b>	Nos	Completed		
<b>II</b>	<b>PILE CAP / FOUNDATIONS</b>				
	<b>UNIT#1</b>				
1	Boiler, ESP, Fan etc.		6713	28	6741
2	Mill Bay		4837	<b>Completed</b>	4837
3	STG & Auxiliaries		10538	346	10884
4	NDCT Raft, racker column, pedestals		20178	2310	22488
	<b>UNIT#2</b>				
5	Boiler, ESP, Fans, etc	CUM	6445	20	6465
6	Mill Bay		4803	<b>Completed</b>	4803
7	STG & Auxiliaries		6423	0	6423
8	NDCT Raft		11018	985	12003
	<b>COMMON SYS</b>				
9	Chimney		23018	1497	24515
10	Service Building		1408	180	1588
11	Control Room		2362	99	2461
12	SW Yard Foundations	Nos	Completed		
	<b>MISCELLANEOUS</b>				
13	Plant Roads WBM	Sqm	25381	0	25381
14	Misc. RCC-Water System, Drains etc	cum	38164	3103	41267
<b>B</b>	<b>STRUCTURAL FABRICATION</b>				
<b>I</b>					
1	STG Bldg#1	Tons	5844	44	5888
2	Control Room Bldg.		Completed		
3	Bunkers#1		1269	60	1329
4	STG Bldg#2		Completed		
<b>II</b>	<b>ERECTION</b>				

1.	STG Bldg#1		4716	263	4979
2.	Control Room Bldg.		1455	0	1455
3.	Bunkers #1		188	161	349
3.	STG Bldg#2		886	70	956
III	<b>BOILER #1 ERECTION</b>	Tons	15054	1212	16266
IV	<b>BOILER # 2 ERECTION</b>		11549	489	12038
V	<b>CW PIPE(2550-3750)</b>				
1	Welding	Mtr	2180	100	2280
2	Erection	Mtr	745	70	815
<b>C</b>	<b>RAW WATER RESERVOIR</b>				
I	Excavation	CUMx10^3	Completed		
II	Embankment	CUMx10^3	Completed		
III	Laying of precast tiles	SQM	403180	0	403180
<b>D</b>	<b>RLY SIDING IN PLANT</b>				
I	Earth work	CuM	212755	875	213630
II	Blanketting	CuM	65000	0	65000
III	Sleeper laying (in plant yard)	EKTM	13	0	13
	<b>LEAD LINE</b>				
I	Earth work	CuM	50464	58160	108624
II	Blanketting	CuM	-	-	-
III	Sleeper laying (in plant yard)	EKTM	-	-	-
<b>E</b>	<b>COAL HANDING</b>				
I	RCC	CUM	22005	1381	23386
II	Structure Erection	Tons	2062	505	2567
<b>F</b>	<b>ASH HANDLING SYSTEM</b>				
I	Ash Dyke Excavation	CuM	750648	0	750648
II	Ash Silo	CuM	1665	100	1765

#### EVACUATION OF POWER:-

The evacuation of power on 400 KV DC Twin-Moose lines shall be as under :

- Rajpura Thermal to Rajpura 400 KV Sub Station. Rajpura to 400 KV Dhuri.
- Rajpura to 400 KV Nakodar, Nakodhar to 400 KV Mastewal.

The transmission lines shall be erected by PSTCL.