

MINISTRY OF POWER
PROJECT MONITORING SYSTEM

STATUS ENDING DECEMBER, 2011

PROJECT NAME	GOINDWAL SAHIB THERMAL PROJECT.
STATE/ DISTRICT	PUNJAB/TARNTARAN
CAPACITY (MW)	2X270MW
FUEL	PULVERISED COAL
DATE OF REGISTRATION 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 ICB ROUTE)	LOI ISSUED ON 18 TH 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	80%-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) BTG, BOP, NON-EPC, PREPARATIVE EXPENSES, FINANCE CHARGES, (INCLUDING IDC)
TOTAL	TOTAL AMOUNTS SPEND SO FAR UP TO -RS. 1622.50 CRORES (TILL DECEMBER, 2011).
FDI 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 (TENTATIVE FOR 1ST YEAR)

IST.YEAR LEVELLISED.	LEVELLISED TARIFF- RS. 2.63 (ESTIMATED)
STATUS OF CEA CLEARANCE	NOT REQUIRED AS CONVEYED BY GOVT. OF PUNJAB VIDE ITS MEMO NO. 10/72/95-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"> ❖ 1074.615 ACRES OF LAND HAS BEEN ACQUIRED. ❖ RAILWAY SIDING FROM KHADUR SAHIB TO SITE (37.03 ACRES), RIVER WATER PIPELINE CORRIDOR (1.40) ACRES. ❖ AWARD FOR 37.98 ACRES WAS ISSUED ON 15.07.2011, MUTATION IS IN PROGRESS. SITE POSSESSION IS YET TO BE GIVEN.
OTHER REQUIRED CLEARANCES	<ul style="list-style-type: none"> • NOC FROM PUNJAB POLLUTION CONTROL BOARD OBTAINED BY THE CO. VIDE LETTERS DATED 30.4.1999 & 31.5.1999. ENVIRONMENTAL CLEARANCE FROM MOEF HAS BEEN OBTAINED FOR THE PROJECT VIDE LETTER DATED 9.5.08. • UNDER SECTION 29 OF ELECTRICITY SUPPLY ACT 1948. THE SCHEME WAS PUBLISHED IN THE STATE GAZETTE ON 19.2.1999. • UNDER SECTION 18(A) OF THE ELECTRICITY SUPPLY ACT, 1948, ORDER OBTAINED FROM GOVT. OF PUNJAB TO ESTABLISH, OPERATE & MAINTAIN THE SCHEME. FRESH PPCB CLEARANCE FOR ESTABLISHMENT HAS BEEN OBTAINED. • NOC OBTAINED BY THE CO. FROM NATIONAL AIRPORTS AUTHORITY OF INDIA VIDE LETTER DATED 21.10.1999. CLEARANCE FROM AAI FOR 275 M TALL CHIMENY HAS BEEN OBTAINED. • NOC OBTAINED BY THE CO. FROM THE CHIEF OF STAFF, WESTERN COMMAND, CHANDIMANDIR VIDE LETTER DT. 31.8.1998. • NO OBJECTION CERTIFICATE FROM FOREST DEPARTMENT IS OBTAINED. • SITE APPRAISAL CLEARANCE IS OBTAINED. • FOREST DEPARTMENT CLEARANCE FOR APPROACH ROAD HAS BEEN OBTAINED VIDE LETTER DATED 23.11.2009 AND THE COMPANY HAS PAID THE NECESSARY FEE TO ISSUED THE NOC. AN AFFIDAVIT HAS ALSO BEEN SUBMITTED TO FOREST

	<p>DEPARTMENT AS PER THE RECENTLY CHANGED GOVERNMENT RULES TO RELEASE THE NOC.</p> <ul style="list-style-type: none"> • PUNJAB STATE GOVERNMENT GUARANTEE FOR THE PROJECT HAS BEEN SIGNED ON 29.3.2001. • THE COMPANY HAS ENTERED INTO WATER SUPPLY AGREEMENT WITH IRRIGATION DEPARTMENT, GOVERNMENT OF PUNJAB FOR SUPPLY OF 20 CUSECS OF WATER ON 29TH MARCH, 2001. REVISED AGREEMENT SIGNED ON 07.04.2010. • 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. • NON EPC WORK AWARDED TO M/S VERTEX PROJECTS LTD. • COAL SUPPLY AGREEMENT EXECUTED ON 6.6.2009. • 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.
FUEL LINKAGE	<p>A. TOKISUD NORTH BLOCK:</p> <ul style="list-style-type: none"> • TOKISUD NORTH COAL FIELD ALLOTTED AS A CAPTIVE COAL MINE AND THE DEVELOPMENTAL ACTIVITIES ARE UNDER PROGRESS. • SANCTION OF MINING PLAN: SANCTIONED VIDE MOC LETTER NO. 13016/25/2005-CA-I DATED 05.04.2006. • LAND ACQUISITION: ACQUIRED 720 ACRES OF COMPENSATORY AFFORESTATION LAND AGAINST REQUIRED 926 ACRES. COMPANY HAS ACQUIRED 444 ACRES OF PRIVATE & OTHER GOVT. LAND OUT OF TOTAL REQUIREMENT OF 604 ACRES. THE COMPANY HAS REMITTED RS. 2.12 CRORES TOWARDS 50% OF NOTIONAL VALUE OF THE GOVT. LAND AND GOVT.'S APPROVAL FOR TRANSFER/LEASE IS AWAITED. • FOREST CLEARANCE: MOEF HAS ISSUED STAGE-I CLEARANCE VIDE LETTER NO.8-26/2009-FC DATED 21.04.2010. STEPS ARE ON HAND TO COMPLY WITH STIPULATED CONDITIONS TO GET STAGE-II CLEARANCE. DEPOSITED AN AMOUNT OF RS. 35.27 CRORES IN CAMPA A/C TOWARDS NPV & COST OF

AFFORESTATION.

- 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-11015/430/2006-1A.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 PIERS COMPLETED AND FOUNDATION FOR P5 UNDER PROGRESS.
- RAILWAY SIDING: MOST OF THE LAND ACQUIRED. THE COMPANY HAS OBTAINED CLEARANCE FROM EAST CENTRAL RAILWAY, HAJIPUR FOR CONSTRUCTION OF RAILWAY SIDING AT TOKISUD RAILWAY STATION AT AN ESTIMATED COST OF RS. 135 MILLIONS VIDE LETTER NO. ECR/OPT/GVK/TOKISUD/505 DATED 10.08.2009. DPR WAS APPROVED BY EAST CENTRAL RAILWAY, HAJIPUR. ENGINEERING SCALE PLANS ARE UNDER FINALIZATION FOR GIVING WORK ON CONTRACT.
- APPROACH ROAD AND RAILWAY SIDING: SURVEY IS COMPLETED. CONTRACT WILL BE AWARDED AFTER STAGE-II FOREST CLEARANCE.
- TOPOGRAPHICAL SURVEY AND BOUNDARY FIXING OF MINING LEASE AREA: 50% OF THE WORK IS COMPLETED WITH THE CO-OPERATION OF DEPARTMENT OF FORESTS.
- OTHER FILED ACTIVITIES IN THE MINING BLOCK WILL BE TAKEN UP, AFTER THE FOREST LAND AND NON-FOREST LAND ACQUISITION IS COMPLETED.
- THE FINANCIAL BIDS FOR SELECTION OF MCO HAVE BEEN OPENED AND FURTHER NEGOTIATION PROCESS IS UNDER PROGRESS WITH THE LOWEST BIDDER.

B. SEREGARHA COAL BLOCK:

- SEREGARHA COAL BLOCK IN JHARKHAND WAS

	<p>ALLOCATED TO M/S ARCELOR MITTAL INDIA LIMITED AND GVK POWER (GOINDWAL SAHIB) LIMITED VIDE MINISTRY'S LETTER NO. 38011/2007-CA-I DATED 09.01.2008.</p> <ul style="list-style-type: none"> • 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. • EXPLORATION PLAN: EXPLORATION PLAN WAS PREPARED BY CMPDIL VIDE ITS LETTER NO. CMPDI/BD/C(731)/369 DATED 06.07.2009. • 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 ON 08.04.2010. • GRANT OF PROSPECTING LICENSE: GOVT. OF JHARKHAND GRANTED PROSPECTING LICENSE VIDE LETTER NO. 1684 DATED 20.09.2010. • APPLICATION FOR FOREST CLEARANCE WAS CLEARED BY MINISTER (FOREST) RECENTLY AND IS BEING SENT TO MoEF DELHI. • TOPOGRAPHICAL SURVEY: TOPOGRAPHICAL SURVEY IS COMPLETED. • EXPLORATION: SHORTLISTED SIX EXPLORATION AGENCIES. THE CONTRACT FOR EXPLORATION DRILLING WILL BE FINALIZED BY FEB., 2011. • TRANSFER OF LAND FROM CCL: RS. 50 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 PROCESS FOR TRANSFER IS IN PROGRESS.
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 TO EQUITY OF 80: 20

DEBT (IN MILLION)	
DETAILS OF ESCROW FACILITY	THE ESCROW AGREEMENT IN THE FORMAT AS AGREED BETWEEN THE PSEB, PSEBs BANKERS STATE BANK OF PATIALA 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	<p>TO BE COMPLETED BY PSEB 7 MONTHS PRIOR TO COD.</p> <p>❖ ERECTION OF TRANSMISSION LINES AND SUBSTATION BAYS FOR EVACUATION OF POWER</p> <p>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 KHAUSA (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:-</p> <p>1. 220 KV GOINDWAL SAHIB-KHAUSA DC LINE</p> <p>THE ROUTE SURVEYED. THE SCOPE NEEDS TO BE REVISED AS THE SPACE FOR BAY AT KHAUSA NOT AVAILABLE.</p> <p>2. 220 KV GOINDWAL SAHIB-SULTANPUR DC LINE</p> <p>THE WORK OF THIS LINE IN PROGRESS. STUBBING OF 12 OUT OF 58 NO. TOWERS HAVE ALREADY BEEN COMPLETED.</p> <p>3. 220 KV GOINDWAL SAHIB-BOTTIANWALA DC LINE</p> <p>THE SURVEY OF THIS LINE HAS BEEN CARRIED OUT, ROUTE PLANT PREPARED AND IS UNDER APPROVAL.</p>
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"> • <u>MAIN PLANT- BTG CONTRACT ON M/S. BHEL, NEW DELHI.</u> <p>BTG:</p> <p><u>ACTIVITIES COMPLETED</u></p> <p>Boiler Unit# I:</p> <ul style="list-style-type: none"> • Top & Bottom headers erection- 33 out of 36 erected. • Welding of Economizer upper bank with intermediate headers is completed. • Front Intermediate panel's erection & welding completed. • First pass ring header erection completed . • Rear Hanger tube & intermediate Rear WW panel's erection & welding completed. • Riser Front & Left side Tubes erection & Welding is completed.. • Screen Tubes erection & welding completed, Rear Arc tube erection started. • Welded Joints-- 7255/13217 <p>ESP Unit# I:</p> <p>PASS – A</p> <ul style="list-style-type: none"> • Outer roof erection and welding completed. • Outlet & Inlet funnels welding completed. <p>PASS - B</p> <ul style="list-style-type: none"> • Outlet funnels welding completed . • Pent House column erection completed. • Outer roof erection & welding completed. • Outer roof hand railing works completed. • Transformer rectifier erection completed.

Boiler Unit# II:

- 14 no's of Top headers has been erected.
- Steam Cooled panels (LHS) erection completed.
- FSH, Platen SH & RH Front & Rear crown plate erection completed.
- SH Radiant roof panel with inlet header erection completed.

ESP Unit# II:**Pass-A**

- Inlet Funnels erection completed.
- Hopper fit up completed
- Bracket & shock bar guide erection completed,
- Huck bolting completed.

Pass-B

- Hopper fit up completed
- Inlet funnel erection completed
- Housing welding completed up to 6th field.
- Loading & gauging completed up to 6th field.
- Inner roof erection & welding completed up to 6th Field.
- Huck bolting completed.

Duct & Supporting Structure:

- Structure-ESP O/L to ID Fan- Total Columns erected: 14 out of 14 Nos.
- Ducting- ESP O/L to ID Fan-. 14 out of 34 modules erected.

Turbine & Auxiliaries-I Unit# 1:**Condenser**

- Condenser Wall & Tube supporting plate alignment completed

Turbine

- 1st, 2nd, 3rd & 4th Bearing pedestal alignment & grouting completed.
- LPT Base Plate- Alignment & grouting completed.
- LPT Front & rear side guide pin welding completed.
- HPT Module- Placement completed.

Auxiliaries

- HP-5 & 6 alignment & grouting completed.
- ACW/DMCW & DMCW for SG- foundation bolt grouting completed.

- MOT Tank- Erection & alignment completed.
- De-aerator- FST Welding & preparation for HT completed.
- BFP-A, B & C Insertion of coupling for Motor & hydraulic coupling is completed.

Generator

- Generator Base plate alignment & locking completed.

TG – Integral Piping

- Lube Oil Piping-Pedestal 2 & 4 welding completed up to drain header

ACTIVITIES UNDER PROGRESS:

- Boiler I & II Pressure parts erection
- Boiler Unit #1-Structures - 36 Group works, WW fins welding & Buck stay erection, Furnace alignment, Seal box fit up & welding are in progress.
- Boiler II- Structures - 36 Group works, Steam Cooled panels (RHS) preassembly & Down comer erection & welding is in progress.
- ESP I & II-erection, welding & alignment work
- Generator- Exciter Blue Matching of Packer Plates is in Progress.
- Condenser Wall & Tube supporting plate –Welding is in progress
- Turbine-Blue matching of bottom inserts plate-work in progress.
- Duct & Supporting Structure -Tie beam erection and welding U/P
- Main Oil Pump line- fit up & erection is in progress
- BHEL Trichy material supply
- BHEL Haridwar material supply
- BHEL Bhopal material supply
- BHEL PEM material supply

NON-EPC:

- Compound wall - Construction completed
- Ash pond construction is in progress
- Residential Colony work is in progress
- Fire station building work is in progress
- Green belt development is in progress

BOP PACKAGE : INFRASTRUCTURAL WORKS BY M/S PUNJ LLOYD (BOP CONTRACTORS)

• **BOP**
ACTIVITIES COMPLETED

Power House Building Unit# I:

- 9 Meter Floor- Grid 2-8 A to C Bay slab casting completed.
- MOT- Foundation handed over.
- DMCW/ACW Pump foundation handed over.

Power House Building Unit# II:

- Fabrication and Erection- All main column Fabrication work completed, 12 out of 21 main columns have been erected.
- TG Deck – Casting completed on 9th Dec'11. UT completed

Electrical Bay:

- Structural Fabrication - 13 out of 15 main column fabrications completed.
- Column Erection- 11 out of 15 Main columns has been erected.
- Grid 8A-10 (A to C) - Inside & outside Plastering is completed.
- Grid 8-10(A to C) - +15.5 Meter floor casting is completed.
- Grid 8A-10- 3.5 meter floor reinforcement laying work completed.
- Grid 8A-10- 8.5 meter floor reinforcement laying work is completed.
- Grid 8A-10 (D to F) - All main column erection work completed, CD Bay +15.5 meter floor beam erection is completed

Transformer Yard Foundation Work:

- GT-II- PCC completed.

Mill Bay Unit# I:

- Feeder Floor Structural erection & deck sheet laying completed.

Mill Bay Unit# II:

- 03 out 16 pile cap casting is completed.

ESP Control Room:

- 9.2 M Slab casting is completed.
- Brick Work- 0 to 3.95 Meter brick work is completed.
- Brick Work- 3.95 to 9.2 Meter brick work started.

Switchyard

- Power & Control cable laying - 5 % completed.
- Cable tray laying is in progress- 75 % completed.
- Equipment Erection in progress 365 out of 432 erected.
- Switch Yard CR- Brick work completed. Inside plastering work completed.
- Switch Yard Cable Trench casting work - 95% completed.
- ABT Metering room- Column casting up to slab completed, Brick work completed.
- Switch Yard Drainage- raft casting 610 out of 780 completed, wall casting 1160 out of 1564 completed.

Chimney:

- Shell Casting up to 165.0 m completed.

DM Plant:

- DM Building- 5 Meter slab casting completed, DM Building- Vessels Erected.
- Filter Water Storage Tank- casting of 1st segment completed.
- Sludge Thickener Wall casting - 02 out of 04 lift completed.
- Main Clariflocculator- Wall casting up to ground level- 85 % completed.
- Dual Media Gravity Filter- Foundation for isolated columns completed.

CST:

- Tank-1- Erection work completed.
- Tank-2- Erection work - 6 out of 7 shells completed.

CHP-Civil works:

- Wagon Tippler 1- slab at (-) 4.55 meter casted
- Wagon Tippler-2- Wall casting completed up to (-) 2.10 Meter. Hopper at (-) 0.55 Meter reinforcement - 50 % completed.
- Stack Reclaimer- 280 out of 1000 m casting completed. Module 16 casted JNT-1 – 40 % Pile cap casting work completed.
- JNT-3 – Foundation casting work completed.
- TH-3- (-) 18.096 Meter raft casting completed, Wall up to (-) 16.096 casting completed.
- TH-1-Wall & tie beam casting completed up to - 8.946 Meter.

- ERH- Excavation up to -8.5 Meter completed.

Fabrication & Erection Work

- Structural Fabrication - 2521 out of 3500 MT fabrication completed.
- Trestle & gallery erection – 653 MT erected.
- JNT-2- 98 % erection work completed.
- JNT-3- 40 % erection work completed.
- BCN-4- 10 % erection work completed.
- BCN-5- 2 % erection work completed.
- BCN-8A/B- 87 % erection work completed.
- BCN-9-20 % erection work completed.

IDCT-I:

- 3 Cells up to Fan deck bottom is completed.
- Wall Beam at (-).150 M (A & D) – 50 % work is completed.
- Main Beam & Transverse Beam at .650 M- 50 % Work is completed (Grid 1 to 22).
- Columns Up to .650 M to 3.460 M- 50 % work is completed (Grid 1 to 22).
- Main Beam & Transverse Beam at .3.860 M- 50 % Work is completed (Grid 1 to 22).
- Longitudinal End Wall at 7.33 M (A & D) - 43 % Work is completed (Grid 1 to 19).
- Longitudinal End Wall at 9.615 M (A & D) - 23 % Work is completed (Grid 1 to 10).

IDCT-II:

- Wall Beam at .650 M (A & D) – 18 % work is completed (Grid 1 to 8).
- Main Beam & Transverse Beam at .650 M- 16 % Work is completed (Grid 1 to 7).
- Basin Wall- 100 % work completed.

CW Channel & Pipe Line:

- Civil Works- 570 rm casting completed.
- Fabrication completed

PA, FD & ID Fan & Duct Support:

- ID Fan Unit-1- Fan-B Deck slab casting completed.

FOPH Building

- Column casting up to roof bottom completed.

Cooling Water Pump House:

- Wall first lift casting completed. Wall second lift casting 57 % completed.

River Water Intake:

- Main Well- (-) 12.05 meter out of 28.5 meter sinking completed.
- Caisson -1- (-) 16.55 meter out of 27.0 meter sinking completed.
- Caisson -2- (-) 10.835 meter out of 28.5 meter sinking completed.

Raw Water Pump House:

- 1st lift Columns casting is completed. Wall casting up to slab is completed.
- Fore bay Raft casting completed & 50 % wall casting completed.

Pipe Rack Foundation:

- Footing casting work in progress – 25 out of 48 footing casted & 25 out of 116 pedestals casted.

ACTIVITIES UNDER PROGRESS**Main Plant****PHB:**

- PHB Unit#1-MOT-staircase & brick work
- PHB Unit#1-Wall Beam encasement & Brick work at +15.5 Meter.
- PHB Unit#1-BFP EOT Crane- Girder erection & rail fixing work.
- PHB Unit# 2-Crane Girder, Tie Beams & vertical bracing erection.
- PHB Unit#2-TG De staging work in progress.
- Electrical Bay-Structural Fabrication & Erection work, Grid 8A-10- 3.5 meter floor -edge angel & insert fixing

Transformer Yard:

- ST-1- Firewall work,
- GT-I- Fire wall work for column casting above tie beam.

Switchyard:

- Switchyard- Power & Control Cable laying
- Cable trench casting work
- Cable tray laying, Equipment Erection
- Slab staging work in ABT metering Room
- Switch Yard Drainage work

SG Area:

- Mill bay-1-Reinforcement work for Mill A & B

Chimney:

- Angel Rolling & Flue Can Joint fixing

Balance of Plant**CHP**

- Wagon Tippler 1- Staging work in progress for hopper at ground level
- Wagon Tippler-2- Hopper at (-) 0.55 Meter reinforcement work
- Stacker Reclaimer-Work in progress for casting of Module 15, 21 & 22.

WTP:

- River Water Intake- Sinking work for main well, Caisson 1 & Caisson 2
- RW Pump House- Fore bay raft casting & wall casting
- DM Plant-Neutralization Pit – Final lift shuttering work
- DM Plant -Sludge pit -Finishing & Columns casting up to roof
- DM Plant- Work for HT of Tanks.
- CW Pump House- Wall second lift casting work
- CW Pipe line- Erection & encasement work
- IDCT I & II- Civil work

FOPH Building

- Staging, beam reinforcement & bottom shuttering work.

• NON PLANT INFRASTRUCTURE AND FACILITIES**BY GVK:****NON-EPC:**

- Compound wall - Construction completed
- Ash pond construction is in progress
- Residential Colony work is in progress

	<ul style="list-style-type: none"> • Fire station building work is in progress • Green belt development is in progress <p>❖ <u>MANPOWER AND EQUIPMENT AT SITE:</u></p> <ul style="list-style-type: none"> • There are no incidents to report. There is no time lost due to injury or accident during the month. 35,82,412 man hours have been completed without any injury loss time.
INVESTMENT MADE TILL DATE	AS INFORMED BY THE COMPANY - RS. 1622.50 CRORES (TILL DECEMBER 2011).
OTHER ISSUES	
a. LINKED PROJECTS (COAL, GAS OR OTHERS)	AS ABOVE
b. INFRASTRUCTURE LINKAGES (RAIL/ROAD/COMMUNICATION)	RAIL LINKAGE COMPLETED & COMMISSIONED UPTO GOINDWAL SAHIB. LOCATED ADJOINING TO KAPURTHALA-TARN TARAN ROAD.
c. ANY OTHER ISSUE	-
CRITICAL AREA	<ul style="list-style-type: none"> • 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. • THE COMPANY FILED AN APPEAL ON THE ORDER OF PSERC WITH APPELLATE TRIBUNAL FOR ELECTRICITY, NEW DELHI THE TRIBUNAL GAVE ITS JUGDEMENT VIDE ORDER DATED 8.04.09. THE ESTIMATED COST OF THE PROJECT AS PER ORDER OF THE APPELLATE TRIBUNAL IS RS. 2963.81 CR. • 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 & RESTATED PPA WITH M/S GVK. • 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. • THE AMENDED & 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.
AREAS OF CONCERN	<ul style="list-style-type: none"> • AREA OF CONCERN: <ul style="list-style-type: none"> • Construction Power Supply Tariff is being charged under "Temporary power Supply category" - A costly inconvenience - Request PSPCL to re-consider • Due to change of 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%. • Soil improvement through vibro compaction is increasing the project cost. • Excessive length of pile than envisaged is increasing the project cost. • Increase in soil filling quantity due to heavy settlement during vibro compaction. • Increase in cost of railway siding as approved by Northern Railways. • Inclement cold weather conditions affected the work progress during the month. • Delay in material supply from BHEL Trichy is affecting BTG work progress adversely in Unit=2 for the last 7 months. • Railway corridor land possession is yet to be given and it results in delaying the railway siding work.
PRESENT ADDRESS OF THE COMPANY	'PAIGAH 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.	

TALWANDI SABO THERMAL POWER PROJECT

Name of the Power Project	Capacity	Scheduled COD	STATUS OF THE PROJECT	
Talwandi Sabo TPP	1980MW(Gross)			As per the enclosure-I
Unit-1	660MW	31.08.2012		
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	TSPI, 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 for December,2011

- 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.
- As per PPA, the Scheduled Commercial Operation Dates (CoDs) of 1st, 2nd & 3rd units are 31.08.2012, 31.12.2012 & 30.04.2013 respectively. However, TSPL have intimated that the actual CODs will be 08.11.2012, 08.02.2013 & 10.06.2013 respectively.
- 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 14.09.2009 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 progress of the project : 53%

A) TSPL have intimated that:-

- » Major equipments for Main plant, BOP, Coal Handling Plant, Switchyard, Ash Handling Plant, others auxiliary & essential packages ordered. Sixteen shipments dispatched from China and nine cargos from third countries. Approx.100,000MT material dispatch from China.

Activities completed:-

- » **Infrastructure Work:** Road diversion and Street lighting work completed.
- » **Civil Works:** Test piling, Soil investigation, Area grading in main plant area completed. Piling work in Main Plant Area,Boiler #1,#2 ,ESP#1.#2 & #3,Pile testing in Boiler-2 area, DM plant piling,Switch-yard,Main Power House, Chimney piling completed, piling work in CHP area and NDCT Unit#2(Shell) piling work completed. Boiler-1&2, DM plant & switchyard foundation work,Chimney raft foundation and Chimney slip form erection completed.

- » BOP
- » NDCT Unit # 1,2&3 (Internal & External) piling work, NDCT#2 ring foundation & pedestals for raker column completed. Water purifying house completed. C/PH raft foundation work completed.

i) Activities under Progress:-

- » **Infrastructure Work:** Plant Boundary wall work and Transit hostel work in progress.
- » **Civil Work:-**
 - MPH-1 foundation work in progress. MPH 2 foundation work-85% completed and NDCT 1&3 ring foundation work and NDCT 2 raker column and ring beam construction in progress.
 - Boiler#3 foundation work in progress.
 - Wagon tippler foundation work- Raft foundation completed, wall casting in progress.
 - Crusher house and CSR foundation work:- Foundation work completed.
 - Raw water reservoir:- Earth work and embankment completed and PVC pipe & HDPE sheets laying in progress.
 - Railway siding work.—Inplant yard track laying completed, Out plant yard 29tkm earthwork completed, blanketing in progress, Bridges construction in progress.
 - HCSD system:- Civil work & Inclined plate filter:-Wall construction, in progress.
- » **Mechanical Work:-**
 - CW pipes erection:- in progress. Boiler 2 erection:-30% pressure parts welding completed. Boiler-1 erection:- 8th tier structural erection in progress.
 - DM plant:- Equipments erection in progress. Switchyard erection:- Gantry steel structure erection completed and the equipment structure erection in progress. NCB/CCB:- Structure erection in progress

ii) Other Supporting Infrastructure & Facilities:

- » **Railway link & siding**
 - ESP approval in progress by Northern Railways.
 - Out plant bridges, RUBs & culverts work in progress.
 - 28 TKM earthwork completed for out plant.
- » **Water conveyance**
 - Pump house and buffer tank civil works in progress.
- » **Water reservoir**
 - Excavation work completed. Precast tiles, laying & PVC pipe & HDPE laying in progress.
 - High concentration slurry disposal:-Civil works and tank fabrication is in progress.

Manpower and Equipments at site:- About 5300 manpower working at site.

B) 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).
- d) 400 KV Talwandi Sabo to 400 KV Dhuri.
- e) 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)		As per the enclosure-I
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 1400MW(2x700) RAJPURA THERMAL POWER PROJECT for
December,2011

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, Govt. of India.

- The CODs of 1st & 2nd 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 to NPL on 11.12.2008 for the coal linkage of 5.55 MTPA (Grade-F).
- Fuel Supply Agreement: Yet to be signed by the NPL.
- 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: 1078.16 acre of land acquired for the main plant. Railway corridor:-Land acquisition for railway corridor 126.65 acre is under process. Section-4 cleared. Approval for Section-6 is awaited. Land for canal corridor 1.37 acre has been identified by NPL.
- Railway Corridor: Land acquisition for lead line is in process. PO issued to L&T-Railway Business Unit for Design, Engineering, Const. & Commissioning of Railway siding. L&T-Railway Business Unit started mobilization at site and railway siding embankment work started inside the plant area. Procurement of Ballast and sleepers started and blanketing inside plant in progress. Detailed Project Report (DPR) for Railway infrastructure scheme approved on 19.9.2011.
- Overall progress 30%
- i) Major milestones/Activities intimated by NPL:-
 - » DPR for 2X700MW finalized.
 - » Major equipment for main plant, BOP, Coal Handling Plant, Ash Handling Plant, others auxiliary & essential packages ordered.
 - » Amendment in MOEF clearance for the 1400MW Rajpura TPP 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.

- » Due to change in Unit configuration, application for additional coal linkage submitted to Ministry of Coal, Govt. of India on 25.5.2010. Standing linkage committee (SLC) in its meeting on 18.4.2011 has approved enhancement of capacity to 2x700 MW.
- » Approval for Change in Land Use obtained from Chief Town Planner, Pb on 10.06.2010.
- » Design & Engineering work in progress- Approximately 77% completed.
- » Construction Power—11kV line from Sarai Banjara Sub-station energized.

■ SITE PROGRESS

Sr No.	Name of Work	UOM	Physical Progress		
			Cumulative upto 31 st Oct. 2011	During Month of Nov. 2011	Cumulative till 30 th Nov. 2011
A	CIVIL				
I	PILING	Nos	completed		
II	PILE CAP / FOUNDATIONS				
	UNIT#1				
	1. Boiler, ESP, Fan etc.		5,148	478	5626
	2. Mill Bay		4,103	-	4,103
	3. STG & Auxiliaries		5,949	863	6812
	4. NDCT Raft		8,190	852	9042
	UNIT#2				
	5. Boiler Fans, etc		2,860	679	3,539
	6. Mill Bay			2848	2848
	7. STG & Auxiliaries				
	NDCT Raft				
	COMMON SYS				
	9. Chimney		12,325	-	12,325
	10. Service Building		633	14	647
	11. Control Room		1,467	-	1,467
	12. SW Yard Foundations	Nos	202	75	207
	MISCELLANEOUS				
	13. Plant Roads WBM	Sqm	21,525	-	21,525
	14. Misc. RCC	cum	492	421	913
B	STRUCTURAL				
I	FABRICATION				
	1. STG Bldg#1		2,566	427	2,993
	2. Control Room Bldg.	Tons	1,019	128	1,147
	3. Bunkers#1		387	121	508
	4. STG Bldg#2		1,715	428	2,143
II	ERECTION				
	1. STG Bldg#1		920	286	1206

	2. Control Room Bldg.		367	163	530
III	BOILER #1 STRUCTURE ERECTION	Tons	4,786	1,349	6,135
IV	CW PIPE(2550-3750)				
	1. Rolling	Mtr	833	283	1,116
	2. Welding	Mtr	748	296	1,014
C	RAW WATER RESERVOIR				
I	Excavation	CUMx10 ³	19,00,500	1,30,896	20,31,396
II	Embankment	CUMx10 ³	2,32,922	4,200	2,37,197
III	Laying of precast tiles	SQMx10 ³	1,54,508	55,922	2,10,430
D	RLY SIDING IN PLANT				
I	Earth work	CuM	1,53,000	-	1,53,000
II	Blanketting	CuM	54,970	-	54,970
III	Ballast	CuM	22,649	13,472	36,121
E	COAL HANDING				
I	PCC	CUM	411	481	892
II	RCC	CUM	920	1,973	2,893
III	Fabrication(Welding)	Tons	137	59	196

ii) 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.