

MINISTRY OF POWER
PROJECT MONITORING SYSTEM

STATUS ENDING NOVEMBER, 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 CRORES : 167.75
EQUITY	B) BTG, BOP, NON-EPC, PREPARATIVE EXPENSES, FINANCE CHARGES, (INCLUDING IDC)
TOTAL	TOTAL AMOUNTS SPEND SO FAR UP TO -RS. 1516.34 Crs (TILL NOVEMBER, 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)
1ST.YEAR	LEVELLISED TARIFF- RS. 2.63 (ESTIMATED)
LEVELLISED.	
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 CHIMNEY 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 DEPARTMENT AS PER THE RECENTLY CHANGED GOVERNMENT RULES TO RELEASE THE NOC. • 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

	<p>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.</p> <ul style="list-style-type: none"> • 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 80% 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-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-1FOR 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 COMPANY HAS CANCELLED THE TENDER PROCESS INITIATED THROUGH INVITING BIDS ON 14.06.2011, DUE TO INADEQUACY OF THE BIDDERS TO MEET THE QUALIFICATION CRITERIA.
- DUE TO THE FOREGOING, THE COMPANY HAD ADVERTISED FOR INVITING BIDS ON 23.09.2011 BY REDUCING THE QUALIFICATION CRITERIA IN CONSULTATION WITH PSPCL. THE BID PROCESS IS IN PROGRESS.

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.
- 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 SIGNING OF AGREEMENT	STATUS OF FUEL SUPPLY	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 SIGNING OF TRANSPORTATION AGREEMENT	STATUS OF FUEL	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)		DEBT TO EQUITY OF 80: 20
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 KHASA (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-KHASA DC LINE</p> <p>THE ROUTE SURVEYED. THE SCOPE NEEDS TO BE REVISED AS THE SPACE FOR BAY AT KHASA 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;	<p>• <u>MAIN PLANT- BTG CONTRACT ON M/S. BHEL, NEW DELHI.</u></p> <p>BTG:</p> <p><u>Activities Completed</u></p> <p>Boiler Unit# I:</p> <ul style="list-style-type: none"> • Top & Bottom headers erection- 28 out of 36 erected. • Economizer, LTSH, FSH, Vertical Platen SH, Re Heater Front & Rear Coil assembly erection completed. • Front WW panels fit up & welding with loose tubes & outlet header is completed. • Burner Block # 1, 2, 3 & 4 erected. • Rear Hanger tube & intermediate Rear WW panel's erection completed, • LSH side Lower panel erection completed. <p>ESP Unit# I:</p> <p>PASS – A</p> <ul style="list-style-type: none"> • Pent House column erection completed.

- Transformer rectifier erection completed.

PASS - B

- Outer roof erection completed

Boiler Unit# II:

- 7 no's of Top headers has been erected.
- Side upper WW panels (LHS & RHS) erection completed

- FSH crown plate fabrication & welding completed.
- Platen SH crown plate fit up completed.
- RH crown plate front side fabrication completed

ESP Unit# II:

Pass-A

- Outlet funnels erection completed.
- Huck bolting completed up to 5th field.
- Loading is in progress in first field.

Pass-B

- Outlet funnels erection completed
- Loading & gauging completed up to 4th field.
- Inner roof erection & welding completed up to 4th Field.
- Housing welding completed up to 4th field.

Duct & Supporting Structure:

- Structure-ESP O/L to ID Fan- Total Columns erected till date: 12 out of 14 Nos.
- Structure-ID FAN O/L to Chimney- Total Columns erected till date: 15 out of 23 Nos.
- Ducting- ESP O/L to ID Fan-. 05 out of 34 modules erected.
- Tie beam erection and welding U/P.

Turbine & Auxiliaries-I Unit# 1:

Condenser

- Condenser Wall & Tube supporting plate erection completed

Auxiliaries

- HP-6 Heater shifted at +15.5 Meter floor.
- De-aerator- De-aerator & De-aerator FST erection completed.

TG Unit

- HP Turbine Module Placed in Maintenance Bay.

TG – Integral Piping:

- Integral piping fabrication work started.

Activities Under Progress

- Boiler I & II Pressure parts erection
- Boiler I - Welding of Economizer upper bank with intermediate headers
- Boiler I- Riser Front Tubes erection & Welding & Structures 36 Group works
- Boiler II- Steam Cooled panels (LHS) preassembly, Structures - 36 Group works & Down comer erection & welding
- ESP I & II-erection work
- Generator- Generator Sole plates Levelling & Centring and Exciter Blue Matching of Packer Plates
- TG Unit I- Blue matching of bottom inserts plate & LPT Base Plate, Brg pedestal levelling
- 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
- 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 3-8 BC Bay casting completed.
- 21 Meter floor- Grid 2-8 casting completed.
- Oil Canal –Casting completed.
- MOT- Slab casting work completed.
- DMCW/ACW Pump foundation casting completed.
- BFP's & CEP's Foundation Handed over to BHEL.

Power House Building Unit# II:

- Foundations Casting completed -13 out of 15 No's. PG-16 first half casting is completed.
- Fabrication and Erection- All main column Fabrication work completed, 06 out of 21 main columns have been erected.

Electrical Bay:

- 16 out of 18 pile cap casted.
- Structural Fabrication - 21 out of 30 main column fabrications completed.
- Column Erection- 15 out of 30 Main columns has been erected.
- Grid 8A-9 AB Bay +11.5 Meter floor has been casted
- Grid 8-10 floor beam & main beam erection at +11.5 Meter & +15.5 Meter floor is completed.

Transformer Yard Foundation Work:

- GT-I, ST-I & UAT-I foundation has been handed over to BHEL.
- GT-I- Fire wall work in progress for column casting above tie beam.
- GT-II- Pile Chipping work completed.
- ST-II - 75 % of work completed.

Mill Bay Unit# I:

- Mill Bunker- Foundation casting work completed.
- Bowl Mill- E super structure Casted, reinforcement work in progress for Mill A & B.
- Fabrication & Erection Works- 16 out of 16 no's (1st Lift up to 30 meter) have been erected.

ESP Control Room:

- Casting of columns up to 9.2 Meter slab completed.
- 3.9 M Floor Slab casted

Switchyard:

- Conductor & Shield wire stringing completed.
- Equipment Erection - 204 out of 432 erected.
- Switch Yard CR- 90 % Brick Wall work completed. 50 % inside plastering work completed.
- Switch Yard Cable Trench casting work in progress, 90% raft casting completed & 84 % wall casting is completed.

Chimney:

- Mechanical Works- 01st flue can fabrication completed & 02nd flue can- 199 RM fabrication works completed
- Shell Casting up to 120.6 m completed.

DM Plant:

- DM Building- Column casting up to roof beam 19 out of 34 completed.
- DM Building- Equipment footing casting completed.
- Neutralization Pit - 2nd Lift casting work completed.
- DM Tanks (02 No's) 01 Tank- Mechanical erection work completed, 02 Tank- 2 out of 6 shell erected.
- .
- Filter Water Storage Tank- 80 % Reinforcement work is completed for 1st segment & shuttering work in progress.
- Main Clariflocculator- Main Clariflocculator raft casting completed & 01 out of 4 segment wall casted.
- Dual Media Gravity Filter- Excavation & PCC completed

CST Foundation:

- Tank-1 & Tank-2 foundation casting work completed and handed over.

CHP:

- Wagon Tippler 1- (-)7.8 M hopper casting completed & above 7.8 M raft wall casting up to - 3.87 Meter completed & Shuttering work in progress for slab at (-)4.55 meter.
- Wagon Tippler-2- Wall casting completed up to (-) 3.87 Meter (Bottom of Hopper) & above (-) 3.87 Meter 50% wall casting completed up to (-) 2.10 Meter.
- Stacker Reclamier- 240 out of 1000 m (345/834 pile cap) casting completed.
- JNT-1 – 90 % Pile chipping work completed & reinforcement JNT-3 – pedestal casting completed & tie beam casting work in progress 50 % completed.
- BCN-4- 85 % foundation casting work completed.
- BCN-5- 45 % foundation casting work completed.
- BCN-6- 72 % foundation casting work completed.
- BCN-8- 89 % foundation casting work completed.
- BCN-9- 76 % foundation casting work completed.

- Crusher House- Foundation casting work completed, 50 % Tie beam casting work completed.
- TH-3- Sump casting (-22 Meter) is completed .TH-1-Wall & tie beam casting completed up to -8.946 Meter.
- ERH- Excavation up to -6 Meter completed.
- Structural Fabrication - 2242 out of 3500 MT fabrication completed.
- Trestle & gallery erection – 499 MT erected.
- JNT-2- 70 % erection work completed.
- JNT-3- 20 % erection work completed.
- BCN-4- 10 % erection work completed.
- BCN-9-10 % erection work completed.

IDCT-I:

- 2 Cells up to Fan deck bottom is completed.
- Wall Beam at .650 M (A & D) – 50 % work is completed.
- Main Beam & Transverse Beam at .650 M- 49 % Work is completed (Grid 1 to 21).
- Columns Up to .650 M to 3.460 M- 47 % work is completed (Grid 1 to 20).
- Main Beam & Transverse Beam at .3.860 M- 40 % Work is completed (Grid 1 to 17).
- Longitudinal End Wall at 7.33 M (A & D) - 21 % Work is completed (Grid 1 to 9).
- Longitudinal End Wall at 9.615 M (A & D) - 10 % Work is completed (Grid 1 to 4).

IDCT-II:

- Wall Beam at .650 M (A & D) – 12 % work is completed (Grid 1 to 5).
- Main Beam & Transverse Beam at .650 M- 12 % Work is completed (Grid 1 to 5).
- Basin Wall- 70 % work completed.

CW Channel & Pipe Line:

- Civil Works- CW Pipe line encasement work in progress, 145 rm casting completed.
- Fabrication & Erection work in progress.
- CW Pipe fabrication- 1525 RM fabrication completed.
- CW Pipe Erection- 964 RM erection completed.
- CW Pipe Hydro test- 874 RM hydro test completed.

PA, FD & ID Fan & Duct Support:

- ID Fan Unit-1- Fan-B Deck slab reinforcement
- ID Fan Unit-2- Raft casting & Wall first Lift casting completed for Fan-A.
- PA & FD Fan- PA Fan 01 out of 04 raft & super structure casting completed.
FD Fan 01 out of 04 raft casting completed, reinforcement Duct Support-

ID Fan B to Chimney- foundation casting work completed except five.

PA & FD Fan-B Duct Support Foundation- foundation casting work completed.

FOPH:

- HFO & LDO Tank- Erection completed, Bottom Plate vacuum box test completed.
- FOPH Building –Column casting up to Tie beam bottom completed, Tie beam casting work in progress.

Cooling Water Pump House:

- Raft casting & column casting completed.

River Water Intake:

- Main Well- (-) 9.05 meter out of 28.5 meter sinking completed.
- Ciasion-1- (-) 5.30 meter out of 27.0 meter sinking completed.
- Ciasion-2- (-) 1.50 meter out of 28.5 meter sinking completed.

Raw Water Pump House:

- Pile cap casting completed & 77 % wall casting completed. Fore bay PCC completed.

Pipe Rack Foundation (DM Plant Area):

- Footing casting work – 18 out of 24 footing casted & 08 out of 24 pedestals casted.

Activities Under progress

- PH1-Wall Beam encasement & Brick work at +15.5 Meter in progress.
- PH1- Drain work at TC. 01 - in progress.

	<ul style="list-style-type: none"> • TG Deck Unit# 2 - Reinforcement laying, Sleeve fixing, insert fixing & shuttering work in progress. • ST-1- 1 Firewall work is in progress. • SWYD-, alignment for equipment & cable tray laying is in progress. • Chimney- Angel Rolling & Flue Can Joint fixing in progress • DM Plant- Sludge pit -Finishing & Other work in progress. • DM Plant -Inlet works for Main Clariflocculator and cascade aerator work in progress • DM Plant -Sludge Thickener reinforcement work in progress. • DM Plant -Acid Alkali super structure work in progress. • CST Foundation- Tank Erection Tank-1- 3 out of 7 shell fit up & welding is in progress. Tank-2- 2 out of 7 shell fit up & welding is in progress. • CHP- Work in progress for casting of Module 16. • TH3(-) 18.096 Meter raft reinforcement work in progress. • PA, FD & ID Fan & Duct Support- shuttering work in progress • CW Pump House- Reinforcement work is in progress for wall casting. • RW Pump House- Columns reinforcement & shuttering work is in progress. <p>• <u>NON PLANT INFRASTRUCTURE AND FACILITIES BY GVK:</u></p> <p>NON-EPC:</p> <p>Non-EPC:</p> <ul style="list-style-type: none"> • Compound wall - Construction completed • Service building piling is 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 <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. 29,08,412 man hours have been completed without any injury loss time.
INVESTMENT MADE TILL DATE	AS INFORMED BY THE COMPANY - RS. 1350.31 CRORES (TILL SEPTEMBER 2011).

<p>OTHER ISSUES</p> <p>a. LINKED PROJECTS (COAL, GAS OR OTHERS)</p> <p>b. INFRASTRUCTURE LINKAGES (RAIL/ROAD/COMMUNICATION)</p> <p>c. ANY OTHER ISSUE</p>	<p>AS ABOVE</p> <p>RAIL LINKAGE COMPLETED & COMMISSIONED UPTO GOINDWAL SAHIB. LOCATED ADJOINING TO KAPURTHALATARN TARAN ROAD.</p>
<p>CRITICAL AREA</p>	<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
<p>AREAS OF CONCERN</p>	<ul style="list-style-type: none"> • <u>AREA OF CONCERN:</u> • 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

	<p>Northern Railways.</p> <ul style="list-style-type: none"> • 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 • Railway corridor land possession is yet to be given and it is 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)		
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	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)		

Status 3x660MW(1980MW) Talwandi Sabo Thermal Power Project.
Projects for November,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 14.08.2008 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 progress of the project : 52%

A) TSPL have intimated that:-

- » Major equipments for Main plant, BOP, Coal Handling Plant, Switchyard, Ash Handling Plant, others auxiliary & essential packages ordered. Approx. 97,000MT 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, Piling work in Main Plant Area, Boiler #1,#2 & #3 and ESP#1,#2 & #3 completed. Pile testing in Boiler-2 area. DM plant piling, Switch-yard, Main Power House, Chimney completed. Filing work in CHP area and NDCT Unit#2(Shell) piling work completed. Boiler-1&2, DM plant & switchyard foundation work completed. Chimney raft foundation completed.
- » BOP
- » NDCT Unit # 1,2&3 (Internal & External) piling work, NDCT#2 ring foundation & pedestals for raker column completed. Water purifying house completed. CWPB 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-80% completed and NDCT 1&3 ring foundation work and NDCT 2 raker column construction in progress.
- Chimney slip form erection in progress.
- Wagon tippler foundation work- Raft foundation completed. Crusher house and CSR foundation work:- Foundation work completed.
- Raw water reservoir:- Earth work and embankment completed and PVC pipe & HDPE sheets laying started
- Railway siding work.—Inplant yard track laying completed. Work in 2 RUBs and out plant work in progress.
- HCSD system:- Civil work in progress.

» **Mechanical Work:-**

- CW pipes erection:- in progress. Boiler 2 erection:-30% pressure parts welding completed. Boiler-1 erection:- Seventh 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.
- Inplant track laying completed. Out plant bridges, RUBs & culverts work in progress.
- 27.5 TKM earthwork completed for out plant.

» **Water conveyance**

- Pump house and buffer tank civil works in progress.

» **Water reservoir**

- Excavation work completed. Precast tiles lying in progress. PVC pipe and 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)		
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		As per the enclosure-I
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

Status of 1400MW(2x700) RAJPURA THERMAL POWER PROJECT
for November,201

1400MW(2x700) RAJPURA THERMAL POWER PROJECT

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 Coal Fields 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 and approved for Section-6 is awaited. The land for canal corridor 1.37 acre has been identified by NPL.

■ Overall progress of the project 29%

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 2x700 MW Rajpura TPP received on 15.11.2010
- » Renewal of NOC from Punjab Pollution Control Board obtained, valid up to 19.09.2013.
- » Final Detailed Project Report (DPR) for Railway infrastructure scheme approved on 19.9.2011. 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.
- » 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 75% completed.
- » Construction Power—11kV line from Sarai Banjara Sub-station energized.

■ **SITE PROGRESS**

Sr No.	Name of Work	UOM	Physical Progress		
			Cumulative upto 30 th Sep.2011	During Month of Oct.2011	Cumulative till 31 th Oct.2011
A	CIVIL				
I	PILING	Nos	completed		
II	PILE CAP / FOUNDATIONS				
	UNIT#1				
	1. Boiler, ESP, Fan etc.		3,256	1892	5148
	2. Mill Bay		4,103	-	4,103
	3. STG & Auxiliaries		5,201	748	5,949
	4. NDCT Raft		4,782	3,408	8,190
	UNIT#2				
	5. Boiler Fans, etc		1,430	1,430	2,860
	6. Mill Bay				
	7. STG & Auxiliaries				
	NDCT Raft				
	COMMON SYS				
	9. Chimney		12,291	34	12,325
	10. Service Building		530	103	633
	11. Control Room		1,467	-	1,467
	12. SW Yard Foundations	Nos	195	7	202
	MISCELLANEOUS				
	13. Plant Roads WBM	Sqm	21,525	-	21,525
	14. Misc. RCC	cum	181	311	492
B	STRUCTURAL				
I	FABRICATION				
	1. STG Bldg#1		2,367	199	2,566
	2. Control Room Bldg.	Tons	950	69	1,019
	3. Bunkers#1		257	130	387
	4. STG Bldg#2		1,278	437	1,715
II	ERECTION				
	1. STG Bldg#1		783	137	920
	2. Control Room Bldg.		131	236	367

III	BOILER #1 STRUCTURE ERECTION	Tons	3,135	1,651	4,786
IV	CW PIPE(2550-3750)				
	1. Rolling	Mtr	608	225	833
	2. Welding	Mtr	483	265	748
C	RAW WATER RESERVOIR				
I	Excavation	CUMx10 ^{^3}	17,36,053	1,64,447	19,00,500
II	Embankment	CUMx10 ^{^3}	2,31,722	1,250	2,32,972
III	Laying of precast tiles	SQMx10 ^{^3}	99,418	55,090	1,54,508
D	RLY SIDING IN PLANT				
I	Earth work	CuM	1,47,000	6,000	1,53,000
II	Blanketting	CuM	51,970	3,000	54,970
III	Ballast	CuM	18,945	3,704	22,649
E	COAL HANDING				
I	PCC	CUM	253	158	411
II	RCC	CUM	391	529	920
III	Fabrication(Welding)	Tons	80	57	137

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.