

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)



पावरग्रिड

केन्द्रीय कार्यालय : "सौदामिनी" प्लॉट सं. 2, सैक्टर-29, गुडगाँव-122 001, हरियाणा  
फोन : 2571700-719, फैक्स : 2571760, 2571761 तार 'नेटग्रिड'  
Corporate Office : "Saudamini" Plot No. 2, Sector-29, Gurgaon-122 001. Haryana  
Tel. : 2571700-719, Fax : 2571760, 2571761 Gram : 'NATGRID'

संदर्भ संख्या/Ref. Number

C/ENG/E/00/SEF/OA

Date: 07-06-2011

To,

**The Secretary**

Central Electricity Regulatory Commission  
3<sup>rd</sup> & 4<sup>th</sup> Floor, Chanderlok Building  
36, Janpath  
New Delhi-110001

**Sub: Minutes of the Co-ordination Meeting for Phase-I IPPs and Long Term Access (LTA) / Connectivity for Phase-II IPPs In Sikkim held at POWERGRID office, Gurgaon on 27-05-2011**

Dear Sir,

Please find the enclosed the minutes of the Co-ordination Meeting for Phase-I IPPs and Long Term Access (LTA) / Connectivity for Phase-II IPPs In Sikkim held at POWERGRID office, Gurgaon on 27-05-2011.

Thanking you,

Yours faithfully,

  
(Y. K. Sehgal)

Executive Director(SEF,CE & IT)

Copy to :

**Shri Ravinder**

Chief Engineer(SP & PA)  
Central Electricity Authority  
Sewa Bhawan, R.K.Puram  
New Delhi-110 066.

पंजीकृत कार्यालय : बी-9, कुतब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016 दूरभाष : 26560121 फैक्स : 011-26560039 तार 'नेटग्रिड'  
Registered Office : B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016 Tel. : 26560121 Fax : 011-26560039 Gram : 'NATGRID'

स्वहित एवं राष्ट्रहित में ऊर्जा बचाएं  
Save Energy for Benefit of Self and Nation

## Sikkim IPPs

### Phase-1 Generation Projects

<u>For Teesta-III (1200 MW) Project</u> Shri S. S. Sharma Executive Vice President PTC India Limited, 2 <sup>nd</sup> Floor; NBCC Tower, 15 Bhikaji Cama Place New Delhi – 11 00 66 Ph : 011-41659136, Fax : 011-41659126/145	<u>For Teesta-VI (500 MW) Project</u> R.Sri Nagesh Lanco Energy Pvt. Ltd. Plot No:397,Udyog Vihar Phase-III,Gurgaon-122016 Ph : 0124-4741000/01/02/03 Extn.1305 Direct No: 01244741305 Mobile:9810571433 Fax:0124-4741379
<u>For Rangit-IV (120 MW) Project</u> Shri M. K. Sharma Chief Executive Officer Jal Power Corporation Limited 405-406, Raja House 30-31, Nehru Place New Delhi – 11 00 19 Ph : 011-26442847-48, Fax : 011-26442849	<u>For Rongnichu(96 MW) Project</u> Dr. B. M. Goswami Chief Executive Officer Madhya Bharat Power Corporation Ltd. E-585, Greater Kailash part-II New Delhi-110048
<u>For Rongnichu(96 MW) Project</u> Dr. B. M. Goswami Chief Executive Officer Madhya Bharat Power Corporation Ltd. Daragaon, Tadong Near Sikkim Computers Gangtok – 737102 Ph : 03592-231771, 320519, 09891643501 Fax : 03592-231771	<u>For Bhasmey Project</u> Shri A K Banka Head Infrastructure Gati Bhasmey Power Pvt. Ltd. 268, Udyog Vihar Phase IV Gurgaon 122 016
<u>For Chuzachen (99 MW) Project</u> Shri A K Banka Head Infrastructure Gati Infrastructure Ltd. 268, Udyog Vihar Phase IV Gurgaon 122 016	<u>For Jorethang (96 MW) Project</u> Shri Y. Nagendra Rao Director, Dans Energy Pvt. Ltd 5 <sup>th</sup> Floor, DLF Building No. 8 Tower-C, DLF Cyber City, Phase-II Gurgaon - 122002 Ph : 0124-4696300, Fax : 0124-4696311

### Phase-2 Generation Projects

<u>For Panan Project In Sikkim</u> Shri P.S.Mandal General Manager A-404,Plot No:27,sector-12, Sunny Valley,Dwaraka, New Delhi-110075 Ph : 09910109187, 011-28033186 Fax : 011-28033186 <a href="mailto:psm_director@yahoo.com">psm_director@yahoo.com</a>	<u>For Dikchu project</u> Shri Vijay Kumar. Atluri CEO Sneha Kinetic Power Projects Pvt.Ltd. #31-A, National Highway, Behind SNOD building, Deorali, Gangtok, Sikkim-737102 Ph: 09959222836 ; Fax : 040-40401089 <a href="mailto:Vijay.a@greenkogroup.com">Vijay.a@greenkogroup.com</a>
--	---

<p><u>For Tashiding (80 MW) Project</u>  Shri T. Nagendra Rao  Director, Shiga Energy Pvt. Ltd.  5<sup>th</sup> Floor, DLF Building No. 8  Tower-C, DLF Cyber City, Phase-II  Gurgaon – 122002  Ph : 0124-4696300, 4100393,  Fax : 0124-4696311</p>	<p><u>For Tingting (90 MW) Project</u>  Mr. David Tow  Director, TT Energy Pvt. Ltd.  5<sup>th</sup> Floor, Tower-C, Building No. 8  DLF Cyber City, Gurgaon - 122 002  Ph : 0124-4552800  Fax : 0124-4376018</p>
<p><u>For Lethang Project</u>  Shri VPS Chauhan  Director,  KHC Lethang Hydro Project Pvt Ltd.  NCPL Web Tower,  1st Floor,  A-4, Sector-9.  NOIDA-201301  <u><a href="mailto:vijay.chauhan@kalpanahydro.com">vijay.chauhan@kalpanahydro.com</a></u></p>	<p><u>For Sada Mangder Project</u>  Shri A K Banka  Head Infrastructure  Gati Infrastructure Sada Mangder  Power Ltd,  268, Udyog Vihar Phase IV  Gurgaon 122 016  <b>Ph: 09540003112, 0124-2644232</b>  <u><a href="mailto:ak.banka@gatiinfra.com">ak.banka@gatiinfra.com</a></u></p>

Copy to :

The Chief Engineer  
Dept. of Power  
Govt. of Sikkim, Kazi Road  
Gangtok, Sikkim, Pin- 737 101  
Ph : 03592-222916, 202028, Fax : 03592-202927

**Minutes of the Co-ordination Meeting for Phase-I IPPs and Long Term Access (LTA) / Connectivity for Phase-II IPPs In Sikkim held at POWERGRID office, Gurgaon on 25-05-2011**

List of participants is enclosed at **Annexure-1**.

At the outset, Executive Director(SEF,CE), POWERGRID welcomed Chief Engineer(CEA) and all the participants and explained that the meeting was called mainly to review the progress of the on-going Phase-I projects coming up in Sikkim so that the transmission system can be developed matching with the commissioning of the generation project. He also stated that it is important to know the progress of the Phase-2 projects, so that the connectivity and long term access could be granted suitably and the transmission system for evacuation of power from these projects could be taken up accordingly.

**1.0 Phase-I Generation Projects :**

Chief Engineer(CEA) enquired the status of the projects from each developer one by one. The status reported is as under :

**1.1 Teesta-III (IC : 1200 MW, LTOA : 1200 MW)**

No representative was present on behalf of the project.

**1.2 Teesta-VI (IC : 500 MW, LTOA : 500 MW)**

The commissioning schedule has been revised and the new schedule is November-2013 for the 1<sup>st</sup> unit. Details of the project is enclosed at **Annexure-2**.

**1.3 Jorethang (IC : 96 MW, LTOA : 96 MW)**

The developers explained the progress of the work based on which the schedule of the project was assessed as Dec., 2012, however CEA observed that the realistic target could be June, 2013. Details of the project is enclosed at **Annexure-3**.

**1.4 Rangit-IV (IC : 120 MW, LTOA : 120 MW)**

The developers mentioned the commissioning schedule of the project as June, 2013. CEA observed it as ambitious target, the realistic target is expected as Dec., 2013. Details of the project are enclosed at **Annexure-4**.

**1.5 Rongnichu (IC : 96 MW, LTOA : 96 MW)**

The commissioning schedule of the project is revised to June-2014. Details of the project is enclosed at **Annexure-5**.

**1.6 Chuzachen (IC : 99 MW, LTOA : 99 MW)**

The developers indicated that the revised commissioning schedule of the project is in Oct 2011. Details of the project is enclosed at **Annexure-6**.

POWERGRID stated that the requisite Bank Guarantee of Rs 49.5 crore for the project construction period has not been received even after repeated

reminders. Chief Engineer, CEA expressed his serious concern over this issue. He also explained to the generation developer that the regulator has accorded the approval for construction of high capacity corridors for IPPs based on various commitments which need to be met with by the respective agencies. He therefore, advised POWERGRID to suspend the long term access granted to the developer till such time that the Bank Guarantee is submitted. Representatives from Chuzachen assured that the same would be submitted by 30<sup>th</sup> June, 2011. CEA mentioned that this is the last chance for submission of Bank Guarantee, failing which shall amount to termination of connectivity of the project.

### 1.7 Bhasmey (IC : 51 MW, LTOA : 51 MW)

The developers revised the commissioning schedule of the project as June 2013. Details of the project is enclosed at **Annexure-7**.

POWERGRID stated that the Bank Guarantee submitted for the project would expire on 27<sup>th</sup> June, 2011. Even after repeated reminders, the Bank Guarantee has not yet been extended by the project developer. Representative of the project mentioned that the Bank Guarantee would be extended within June, 2011 prior to its expiry.

The developers enquired about the co-ordinates of Rangpo and Mew Melli. The same is given below :

Coordinates of Rangpo			Coordinates of New Melli		
Sl.No	Latitude :	Longitude :	Sl.No	Latitude :	Longitude :
1	27°11'57.8"N	88°29'01.5"E	1	27°10'56.0"N	88°19'22.7"E
2	27°12'00.2"N	88°29'10.6"E	2	27°10'54.2"N	88°19'11.1"E
3	27°11'48.5"N	88°29'18.5"E	3	27°10'53.4"N	88°19'10.2"E
4	27°11'42.7"N	88°29'11.4"E	4	27°11'00.5"N	88°19'08.6"E
5	27°11'46.0"N	88°29'04.7"E	5	27°11'01.7"N	88°19'18.4"E

Based on the above status the revised commissioning schedule of the Phase-I projects are given as under :

Sl. No	Name of the Developer/ Open Access Applicant	Name of the Generation Plant	Capacity/ Power to be transferred	Expected Commissioning Schedule
1	Teesta Urja Ltd. / PTC	Teesta-III	200x6 =1200 MW	Dec., 2011
2	Lanco Energy Pvt. Ltd.	Teesta-VI	125x4=500 MW	Nov, 2013
3	DANS Energy Pvt. Ltd.	Jorethang	48x2 = 96 MW	Dec., 2012
4	JAL Power Corporation	Rangit-IV	40x3=120 MW	June, 2013
5	Madhya Bharat Power Corporation Ltd.	Rongnichu	48x2=96 MW	June, 2014
6	Gati Infrastructure Ltd	Chuzachen	49.5x2=99 MW	Oct, 2011
7	Gati Infrastructure Bhasmey Power Pvt. Ltd.	Bhasme	25.5x2 = 51 MW	June, 2013
<b>Total</b>			<b>2162 MW</b>	

## **2.0 Phase-II Generation Projects**

Chief Engineer, CEA clarified that the generation projects coming up under Phase-II shall be utilizing the transmission system associated with phase-I IPPs and also vice versa. On enquiry from Chief Engineer(CEA), the projects developers informed the progress of their project, which is summarized as below :

### **2.1 Tashiding(Shiga Energy) (LTOA-97 MW)**

The developer mentioned that the land for the project (26.0472 Ha) involves Private and Forest land. While handing over of the forest land is completed, notification under section-6 for the private land is under process. The MoEF clearance for the project has already been obtained. EPC contract of the main plant has been awarded in March, 2011. The financial closure of the project is expected on June 2011. The length of the tunnel is about 5.4km. The first unit of the project is likely to be commissioned in Jan. 2014. The detailed status of the project is given at **Annexure-8**.

CEA observed that the target is an ambitious one. The developer mentioned that they are ready to sign the BPTA and furnish Bank guarantee. It was decided that BPTA for the project would be signed shortly.

### **2.2 Tingting(TT Energy) (LTOA-99 MW)**

The developer indicated that possession of govt and private land for the project is under progress. The environmental clearance is expected in June, 2011. The EPC contract is likely to be placed in August 2011. The financial closure is expected in Sept. 2011. The first unit of the project is expected to be commissioned in Mar., 2014. The developer also confirmed that they are ready to sign the BPTA and furnish Bank guarantee. Chief Engineer, CEA observed that the schedule of the project optimistic, however it was decided that the BPTA would be signed shortly. The detail status of the project is given at **Annexure-9**.

### **2.3 Sada Mangder(Gati Infrastructure) (LTOA-71 MW)**

The land for the project is yet to be acquired. Various clearances are under process but there is no significant progress regarding the development of the project. CEA observed that no schedule of commissioning could be ascertained to the project at this moment. The project has already been granted LTOA, however the signing of BPTA and submission of Bank guarantee would be considered after there is some progress of the generation project. Detailed status of the project is given at **Annexure-10**.

### **2.4 Dikchu(Sneha Kinetic) (LTA-96 MW)**

The project developer indicated that the land for the generation project has been acquired. The financial closure of the project has been achieved. The EPC contract for the main plant has also been placed. The commissioning of the project is expected in Dec. '13. Details of the project is given at **Annexure-11**. The project has already been granted connectivity and LTA. The developer would need to sign the BPTA and furnish Bank guarantee.

## 2.5 Panan HEP (Connectivity- 300 MW)

No representative of the project was present. However, they had sent following status for the project :

- CEA Concurrence of the Project has been obtained on 7.3.2011.
- Scheduled date of commissioning is July 2015.
- Financial Closure is actively under negotiation and is likely to be finalized by Sep'11
- Application for Grant of Connectivity in ISTS was submitted to POWERGRID on 15.6.2010.
- Land as per requirement of the Project has already been acquired.
- Award of Civil Packages are under finalization and likely to be awarded by Sep.'11.
- E&M Package is also under finalization and also likely to be awarded by April 2012.
- Application for Grand of LTA likely to be submitted by June 2011 to PGCIL.

The developer has earlier said that they would apply for LTA by March, 2011. The date has now been revised to June, 2012. It was decided in the last meeting that upon receipt of LTA application, intimation for connectivity and LTA would be granted for the Panan HEP project.

## 2.6 Lethang HEP (Connectivity-99 MW)

The representative stated that land for project is not acquired. The environment clearance for the project is yet to be obtained. The financial closure is expected by Dec., 2011. The details of the project are given at **Annexure-12**. CEA observed that there is no significant progress of the generation project and therefore no commissioning schedule could be fixed up for the project right now. The developer has applied for connectivity and it may apply for LTA after achieving significant progress of the generation progress. It was decided in the earlier meeting that upon receipt of LTA application, intimation for connectivity and LTA would be granted for the project. The signing of the BPTA and submission of Bank Guarantee would be taken up after grant of intimation for connectivity and LTA.

In view of the above deliberation the status of Phase-II generation projects is summarized below :

SI No	Project	Ins. Cap (MW)	LTOA (MW)	Time Frame	Applied for	Remarks
1.	Tashiding (Shiga Energy Pvt. Ltd.)	97	97	Jan,'14	LTOA	Granted, BPTA/BG shortly
2.	Tingting (TT Energy Pvt. Ltd.)	99	99	Mar,'14	LTOA	Granted, BPTA/BG shortly
3.	Sada Mangdher (Gati Infrastructure)	71	71	To be firmed up	LTOA	Granted, BPTA/BG after some progress
4.	Dickchu (Sneha Kinetic Power Projects Ltd.)	96	96	Dec'13	Connectivity & LTA	Granted BPTA/BG shortly. Sikkim to review the evacuation system
5.	Panan# Himagiri Hydro energy Ltd.	300	300	Jul'15	Connectivity	To apply LTA by June'11 Grant of conn. & LTA after receipt of LTA application
6.	Lethang# (KHC Lethang Hydro Project Pvt. Ltd.)	96	106	To be firmed up	Connectivity	To apply LTA after some progress. Grant of conn. & LTA after receipt of LTA application
	<b>Total</b>	<b>759</b>	<b>769</b>			

### **3.0 Phase-II Transmission System :**

The above projects were considered to come up under phase-II of Sikkim IPPs. The project developer of Tashiding and Tingting have indicated that the project would be coming up in Jan'14 and Mar'14 respectively. It was brought out that the power from these two projects can be evacuated on the Melli-Rangpo 220kV D/c line (1<sup>st</sup> line). Even though this line may be adequate to evacuate the power when Tingting and Tashiding also get commissioned, it is however observed that the 2<sup>nd</sup> line from Melli to Rangpo 220kV D/c would be required to evacuate the power reliably. The implementation of this line shall begin with significant progress towards implementation of Tingting and Tashiding projects.

The power from Dikchu project has been planned to be evacuated through LILO of Gangtok-Mangan 132 kV D/c line, to be implemented by Govt. of Sikkim. Establishment of new substation at Mangan is associated with Panan project. Therefore it may not be ready by the time of commissioning of Dikchu HEP. Accordingly, it was decided that Dikchu-Gangtok 132 kV line may be constructed initially by Govt. of Sikkim so that power can be evacuated from the generation project as per margin available in the system.

Additional Chief Engineer, Dept of Power, Govt. of Sikkim stated that it may be difficult to terminate the Dikchu-Gangtok 400kV D/c line at Gangtok in view of right of way problem and non-availability of space at Gangtok. Instead, they proposed to construct Dikchu-Rangpo D/c line. Till the time Rangpo substation is commissioned, this line may be connected as an interim arrangement with Rangit-III – Gangtok line so as to form Rangit-III-Dikchu and Dikchu-Gangtok 132kV lines. After commissioning of Rangpo substation, the above arrangement would be disconnected and Dikchu would be connected with Rangpo(POWERGRID) through 132kV D/c line via Rangpo(Sikkim) 132kV substation to be implemented by the state. After detailed deliberation, representative from Dept of Power, Govt. of Sikkim mentioned that they would review the original proposal viz. implementation of Dikchu-Gangtok 132kV D/c line once again and would intimate about their decision shortly. Chief Engineer, CEA stated that a timely action may be taken up by Govt. of Sikkim so that power evacuation from Dikchu HEP is not constrained. Upon a query from ACE, Govt. of Sikkim regarding tariff, Chief Engineer, CEA clarified that the tariff shall be applicable as per the State Electricity Regulatory Commission of Sikkim.

The meeting ended with vote of thanks to the chair.

**Annexure-1**

**Meeting with Phase-1 and Phase-2 Developer in Sikkim Date: 27.05.2011,  
Venue: POWERGRID, Gurgaon**

**List of Participants**

<b>SL. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Organization</b>
1	Shri Ravinder	Chief Engineer(SP & PA)	CEA
2	Shri Y K Sehgal	ED (SEF & CE)	POWERGRID
3	Shri Avinash M. Pavgi	AGM(SEF)	POWERGRID
4	Shri Ashok Pal	DGM(SEF)	POWERGRID
5	Shri R. Nagpal	DGM(CMG)	POWERGRID
6	Shri Ashok Joshi	DGM(Engg-S/s)	POWERGRID
7	Ms Jane Jose	CM (Comml)	POWERGRID
8	Shri K.K. Sethi	Manager(T)	JPCL, NOIDA
9	Shri C. Sarkar	Sr.Asst.Manager	JPCL, NOIDA
10	Shri D.J. Pani	DGM(SEF)	SKPPL, Hyd
11	Shri A.V.S. Ramanujam	AVP	SKPPL, Hyd
12	Shri Meenakshi Sapru	Asst. Manager	Kalpan Hydro
13	Shri K.S. Raghav	Consultant	Kalpan Hydro
14	Shri Rahul Malhotra	AGM-Electrical	Kalpan Hydro
15	Shri Shantanu Rajbougshi	Electrical Engr	Madhya Bharat Power Corp. Ltd
16	Shri B.M. Goswami	CEO & Director	Madhya Bharat Power Corp. Ltd
17	Shri A. Rajagopalan	Consultant	Gati Infrastructure Ltd.
18	Shri Devesh Gatoam	Assistant Manager	Gati Infrastructure Ltd.
19	Shri Rajesh Razadan	VP	Dans Energy
20	Shri Saptarshi Mondal	Sr.Manager	Dans Energy
21	Shri Harsh Sagar Goyal	Company Secretary	Lanco Teesta Hydro Power Pvt. Ltd.
22	Shri Samrinder Singh Nehria	Sr.Manager P&M	Lanco Teesta Hydro Power Pvt. Ltd.
23	S.P. Kazi	Addl. Chief Engineer (EHV Dept)	Dept. of Power, Govt. of Sikkim

**Progress Report of Teesta Stage-VI HEP(500 MW)**

Despite the difficulties being faced in the execution of the project due to poor geological conditions at different areas, the works are progressing in various important components of the project such as the Powerhouse Complex, all the faces of HRT, E&M works, H&M works, Barrage Complex etc. It is expected that the project will achieve COD by November 2013.

**PROGRESS PHOTOGRAPHS**



**The Teesta River flowing through the barrage after phase 2 river diversion**



**Erection of draft tube at unit 2 in the Power House Complex**



**Surge Shaft 1**



**HRT Works**

## Progress Report of Jorethang HEP(96 MW)

COMPANY : DANS ENERGY PVT. LTD.  
PROJECT: 96 MW JORETHANG HEP, SIKKIM  
DOCUMENT: PROGRESS REPORT  
PERIOD COVERED: UPTO 30 APRIL 2011  
REPORT DATE: 20 MAY 2011

### 1. CIVIL WORKS AT SITE

- All Advance infrastructure works such as land acquisition, provision of construction power, construction of access roads and construction of magazine house have been completed.
- Work is progressing on the tunnel, barrage area and power house area as per our construction schedule. The following is the progress on work till end of April 2011:
- **Barrage:** Excavation in the barrage area for 1st stage is completed and concreting work is going as per the schedule.
  - Left Bank Training Wall : All the lifts was concreted for the stem of middle block of Training wall and four lifts is concreted for the stem of upstream block of the Training wall.
  - Cistern Floor and Divide Wall: Concreting was finished for the upstream block of Divide wall after the balance three lifts were concreted in that block. Five out of seven lifts were concreted for the stem of the downstream block of the Divide Wall.
  - Approach Channel, Retaining wall and Power Intake: All the lifts for the third and middle block of the retaining wall have been concreted. Nine lifts out of 19 for the first block of the retaining wall were concreted. Three lifts were concreted for Power Intake above breast wall from El. 335.60 to El. 340.55. in the month of April 2011.
  - Undersluice Bays: After the concreting of raft of downstream block of Undersluice Bays, concrete was placed at the bottom and piers of Steel Liner for Undersluice Bays upstream and middle block. Top slab was also concreted for the steel liner at the middle block of Undersluice Bays. During April 2011, ten lifts were concreted for the middle block of Undersluice Bays. Six lifts were concreted for the upstream block of Undersluice Bays and nine lifts were concreted for the downstream block of Undersluice Bays. Raft was completed for the middle block of Undersluice Bays on the spillways side also.
  - Cut and Cover conduit: During April 2011, five invert were concreted in the Cut and Cover structure making a total of 43 invert out of 44 invert in total. Two pairs of wall were concreted along with three crowns. Invert for the 5 m long transition downstream of Power Intake from rectangular to 7m D shaped regular Cut and Cover structure was also concreted during the month.
- **Tunnel:** The Junction of the Intermediate adit with the HRT was reached during the month of July 2010.
  - Face-1: During April 2011, 59.30m of tunneling was done, with installation of 43 sets of lattice girders, making a total progress of 526.50m.
  - Face-2: During the month of April 2011, 37.50m of HRT was excavated at the face 2 making a total progress of 429.00m.
  - Face-3: During the month of April 2011, 122.80m of tunnel was excavated at the face 3 making a total progress of 526.50m at this face. In all three above mentioned HRT faces, turning niches were excavated to facilitate equipment movement.

- Face-4: During April 2011, 15.40m of HRT was excavated from face 4, below Surge Shaft. Concreting of the bottom beam of the Surge Shaft is completed except the portion over the portal towards Adit 2.
- **Powerhouse:**
  - The cofferdam around the powerhouse was completed to elevation 267.0 and jet grouting was also completed. The contractor has undertaken the excavation in the main Power House pit from EL 267m and has achieved excavation up to EL 250m. Slope cutting and rock support on the hillside of the powerhouse is completed till elevation of 250 m. Concreting of the backfill concrete under the Service Bay area is continuing. Earthing of the area under the Service Bay was also carried out.
- **Surge shaft:**
  - Excavation of the Surge Shaft was completed down to elevation 311.25. Cutting of the trench (inclusive rock support) across the Surge Shaft bottom was also completed, as well as placing of leveling concrete at the bottom of the Surge Shaft (elevation 311.25). Forms, reinforcement and equipment are being mobilized for starting the concreting of the Surge Shaft lining.

## 2. HYDRO-MECHANICAL WORK

Fabrication was started for the stop log gates of Power Intake by the team from M/s BEKEM at Barrage site. Complete material for the fabrication of gates was mobilized during the month. Material was also mobilized for the second stage embedments including the side guides and seal beams. The detailed status of HM works is given below:

1. **Under Sluice steel liner works:** In side horizontal bottom welding is completed at 3 No's tunnel and vertical welding is under progress.
2. **Platform Works:** Platform for gate fabrication has started and leveling and fixing is under progress.
3. **Fabrication and welding works:**
  1. Horizontal side guider for power intake gate fabrication completed.
  2. Stiffener for power intake gate and stop log gate cutting is under progress.
  3. End box plate for power intake and under sluice gate fabrication completed.
  4. Skin plate for power intake and power intake stop log gate plate cutting completed.
  5. Erection of gates has also started.

## 3. ELECTRO-MECHANICAL WORK

- a. Contract was signed on 7th August, 2009 with ALSTOM Projects India Ltd. All Advance payments have been made and LC's have been opened for 100% of Contract Price less advances for both the Supply and Services Contract.
- b. The E&M works are progressing well. Basic engineering of the Turbine, Generator, MIV, Governing system and BOP packages are completed and the detail engineering is at final stage. Almost all the raw materials for the Turbine, Generator and MIV like plates, castings, forgings, laminations and copper have been procured. The detailed status of E&M works is given below:
  1. **Turbine, Governor and MIV:** Draft Tube elbow with liner for U-1 and U-2 and Pit liner for U-1 was dispatched to site in February 2011. Pit liner for U-2, Stay ring and Spiral case for U-1 and U-2 have been dispatched to site in March 2011. Fabrication of Draft Tube cone for U-1 is completed and fabrication of Draft Tube cone for U-2 is under progress. Manufacture of Turbine shaft for U-1 and U-2 is completed. Fabrication of other major components and MIV are in different stages.
  2. **Generator and Excitation system:** Manufacture of Stator frame, Stator laminations, Stator Bars and Generator upper shaft for U-1 are completed. Manufacture of Generator upper shaft for U-2 is also completed. Fabrication of Rotor spider and lower bracket for U-1 is completed and fabrication for Rotor spider,U-1 and lower bracket,U-1 and upper bracket, U-1 & U-2 is under progress. Manufactures of other components of Generator are in different stages.

3. **Balance of Plant (BOP):** All the materials of Grounding system (Lot-1, Lot-2 and Lot-3) have been dispatched. 163 MT EOT crane, 63MVA GSU transformer, 11kV Bus duct, 11kV switchgear, Inverter and Excitation system have been ordered and manufacturing clearance also issued. 800kVA DG set and Station transformer & UAT have already been ordered and manufacturing clearance is being issued. Other equipments like 220V and 48V DC system, Condition monitoring system, Protection system, Cooling water system, Drainage & dewatering system, Fire fighting system and SCADA have already been ordered. Balance Electrical and mechanical packages of BOP are under ordering.
4. **Powerhouse:** Excavation is under progress at Powerhouse area. Necessary drawings for Embedded pipe, Draft Tube elbow and liner have been finalized. Site store construction is under progress.

#### 4. TRANSMISSION SYSTEM

The final Bulk Power Transmission Agreement has been signed with Powergrid Corporation of India Ltd on 24th Feb' 2010 for transmission of power to Western and Northern region. Bank Guarantee for Long Term Open Access application of Rs. 4.80 cr was issued on 07th April 2010 to PGCIL as per the signed BPTA.





#### 5. FINANCIAL CLOSURE

The financial closure for the Project was achieved in the month of March 2010.

#### 6. STATUS OF CLEARANCES FOR JLHEP

DEPL has obtained all critical clearances, which are required for construction of the Jorethang Loop HEP.

### PROGRESS PHOTOGRAPHS

	
<p>Barrage upstream view</p>	<p>Steel liner @ upstream block of Undersluice Bay</p>
	
<p>Upstream View of Power Intake</p>	<p>Downstream view of power intake showing transition &amp; Cut &amp; Cover Conduit</p>



View from Surge Shaft top showing trench / HRT



Face -4 HRT



HM works - Platform Works for Gate fabrication at site



E&M works - Turbine shaft U1 & U2 - Machining completed



Spiral case, U1 & U2 - Dispatched to SITE

## STATUS OF THE GENERATION PROJECT







**Applicant Name/ Gen. Capacity: DANS Energy Private Limited/ 96MW**

SIN o	Item	Status / Information
<b>1.</b>	<b>Generation location</b>	
	Location of power project (name of village/town, district/State)	<i>Jorethang / West &amp; South District/ Sikkim</i>
	Detail vicinity map of the project site on topo sheets to gather relative locations of other generation projects in the vicinity	<i>Attached</i>
	Latitude & Longitude of the project site	<i>27° 09'37" N &amp; 88° 17' 47" E</i>
<b>2.</b>	<b>Land</b>	
	Total Land required for the project	<i>37.6536 Ha</i>
	Type of Land proposed (Govt or private)	<i>Both private and forest land</i>
	Area of land already acquired & possessed (i) Govt (ii) Private	<i>37.6536 Ha acquired and possessed</i>
	Status of land to be acquired like date of notification for and acquisition	
	<b>Status of possession of land</b>	<i>Acquired and possessed</i>
<b>3.</b>	<b>Fuel</b>	
	Type of Fuel (Gas/domestic coal/imported coal/Hydro)	<i>Hydro</i>
	Status of fuel tie-up for the total quantity of fuel required to generate full power at normative availability. Indicate status of mine allocation or fuel linkage	<i>Implementation Agreement signed with Govt. of Sikkim on 05<sup>th</sup> Dec 2005</i>
<b>4.</b>	<b>Water</b>	
	Status of in-principle approval from concerned State irrigation department Date of application, likely date by which it shall be available	<i>NA</i>
<b>5.</b>	<b>Water Supply arrangement /Pipeline connection</b>	<i>NA</i>
<b>6.</b>	<b>Environment Clearance</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	<i>Final clearance from MoEF obtained on 26<sup>th</sup> July 2006.</i>
<b>7.</b>	<b>Forest Clearance:</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	<i>Final clearance obtained on 12<sup>th</sup> May 2008.</i>
<b>8.</b>	<b>EPC Contract Status</b>	
	Date/ Likely date of placement of contract for main plant	<i>Civil &amp; HM contract: 09<sup>th</sup> Mar' 2009</i>
	Date/Likely date of placement of contract for Boiler	<i>E&amp;M contract: 07<sup>th</sup> Aug' 2009</i>
	Date/Likely date of placement of contract for Turbine/Generator	
<b>9.</b>	<b>Status of PPA with beneficiaries including case-1 bids if applied for</b>	<i>Not yet applied</i>
<b>10.</b>	<b>Proposed Date of financial closure</b>	<i>Achieved on March 2010</i>
<b>11.</b>	<b>Expected commissioning schedule (unit wise)</b>	<i>Unit-1(48.5 MW)-Sep' 2012 Unit-2(48.5 MW)-Oct' 2012</i>

**Progress Report of Rangit-V HEP(3x40 = 120 MW)**

In Dam & Intake area 1,49,592.5cum (total 1,56,000 cum.) excavation has been completed. The excavation of Intake structure has already been completed in December, 2010. Concreting the Dam is under progress. Slope stabilization of the right bank at Dam axis has been completed from EL. 500.00m to EL. 334.0m. The surge shaft has been dug to more than 48m depth with steel ribs and concrete lagging out of total depth of 59.0 m. The excavation of HRT has been completed for 1.6 km out of 6.4 km. Due to slides and sinking of Power House area during monsoon of 2009, hill slope stabilization had to be carried out and the same has been completed from EL. 415m to EL 359m i.e. almost upto Service Bay level. Service Bay concreting is being taken up shortly and EOT crane is scheduled to be erected and commissioned in December, 2011-February, 2012 and erection of units will be taken up immediately thereafter. Letter of Award for Generating Units has been issued to M/s ANDRITZ Hydro on 28.08.09. Letter of Award for Balance of Plants has been issued to M/s. Siemens Ltd. on 31.03.2011. Permission has been granted by Central Government U/S 68 of Electricity Act 2005 for installation of overhead transmission lines under transmission system associated with the project. Application has also been submitted to PGCIL on 09.03.2011 for grant of connectivity in Inter State Transmission System (ISTS) as per the procedure laid by CERC. The projects is expected to be commissioned by June,2013.

**PROGRESS PHOTOGRAPHS**

	
<p style="text-align: center;">Adit-IV</p>	<p style="text-align: center;">Surge Shaft (3)</p>
	
<p style="text-align: center;">PH slope stabilisation</p>	<p style="text-align: center;">HRT face II (3)</p>
	
<p style="text-align: center;">Dam block</p>	<p style="text-align: center;">Blocked intake no III</p>

## Progress Report for Rongnichu HEP(96 MW)

## STATUS OF GENERATION PROJECT

Sl No.	Item	Status/Information
1.	<b>Generation Location</b>	
	Location of power project (name of village/town, district/State)	Village Kumrek, near Rongpo East District of Sikkim
	Detail vicinity map of the project site on topo sheet to gather relative locations of other generation projects in the vicinity	
	Latitude and longitude of the project site	27 deg10 min 42 sec north 88 deg 32 min 21 sec east
2.	<b>Land</b>	
	Total land required for the project	40.0423 Ha
	Type of land proposed (Govt or private)	both
	Areas of land already acquired and possessed (i) Govt. (ii) Private	Forest Land diverted: 23.2313 Ha, Govt. Land: 1.9030 Ha 14.908 Ha
	Status of land to be acquired like date of notification for and acquisition	All the above land had been diverted/acquired
	Status for land possession	Possession of land taken
3.	<b>Fuel</b>	
	Type of fuel (Gas/domestic coal/ imported coal/ Hydro)	Hydro
	Status of fuel tie-up for the total quantity of fuel required to generate full power at normative availability. Indicate status of mine allocation or fuel linkage.	
4.	<b>Water</b>	
	Status of in-principle approval from concerned State irrigation department Date of application, likely date by which it shall be available.	Already received from Government of Sikkim dated 1. 6. 2006
5.	<b>Water supply arrangement/Pipeline connection</b>	
6.	<b>Environment clearance</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available	Environmental Clearance received from Government of India on 4. 4. 2007
7.	<b>Forest Clearance:</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available	Forest Clearance received from MOEF, Govt. of India dated 18. 6. 2009
8.	<b>EPC Contract Status</b>	
	Date of placement of contracts –Turnkey Civil Works	14. 6. 2010
	Date/Likely date of placement of contract for E&M Pkg	June 2011
	Date/ Likely date of placement of contract for HM Pkg	June 2011
9.	<b>Status of PPA with beneficiaries including case-1 bids if applicable for</b>	Draft copy of MOA has been received from PTC and is under finalization stage at head office
10.	<b>Financial closure achieved</b>	February 2010
11.	<b>Expected commissioning schedule (unit wise)</b>	Unit 1- May 2014 Unit 2- June 2014

## Salient Features and Works Completed at site

<b>Project Location</b>	<b>Sikkim</b>
<b>River:</b>	<b>Rongnichu/ Rongpo River</b>
<b>Barrage:</b>	
Top of Barrage Elevation	El. 742.50 m
Streamed Elevation	El. 728.0 m
<b>Spillway (incl. Sluice)</b>	
Type	Free Flow
Gate Size (HxW)	12.2m x 6.5m
No. Of Gates	2+1
Discharge Capacity	1200m <sup>3</sup> /sec
<b>Head Race Tunnel(HRT)</b>	
Shape	Horse Shoe Type
Length	12.6 KM
Finished Dia.	4 m
<b>Adits</b>	
Number of intermediate Adits	4
Total Length:	1589 m
Size	5m x 6m
<b>Power House</b>	Surface
<b>Turbine</b>	Pelton, Vertical Shaft
<b>Rated Head</b>	404.1m

SI	Description	Date of Start	Cumulative Progress	Remarks
1	Barrage			
	a. C/O temporary bridge over Rongnichu river		Completed on 27.02.2011	
2	Adit 0			
	Portal	01.04.2011	Completed on 15.04.2011	
	Adit	16.04.2011	47.00 mtrs	47m of excavation work has been completed out of 159 m
3	Adit II			
	Portal	21.02.2011	11.03.2011	
	Adit	12.03.2011	48mtrs	48m of excavation work has been completed out of 548m
4	Adit III			
	Open Excavation and support system for portal		40% completed	
5	Horizontal penstock from power house			
	Portal	03.03.2011	27.03.2011	
	Penstock	28.03.2011	86.7 mtrs	86.7m excavation work has been completed out of 153 m

### Surge Shaft :

The survey, drill holes and finalisation of slope protection drawing by design consultant have already been completed. The Construction will start on 1<sup>st</sup> of June 2011.

### Valve House :

The location and design have already been finalized by the design consultants. The construction activity is scheduled to start on 10<sup>th</sup> of June 2011

## PROGRESS PHOTOGRAPHS



Approach to ADIT III Location



1<sup>st</sup> Bench Excavation Completed at ADIT III



ADIT II



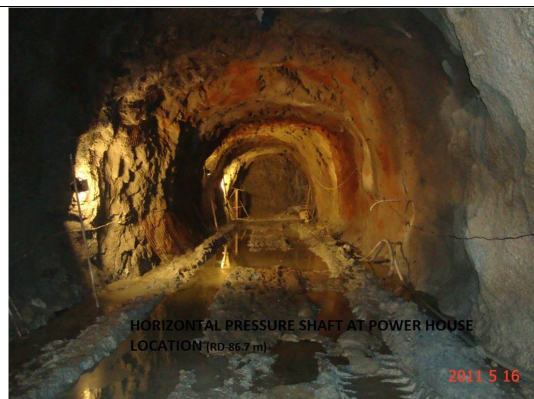
Erection of Crusher at Barrage Complex



ADIT O



View of River Protection Work at Power House Complex

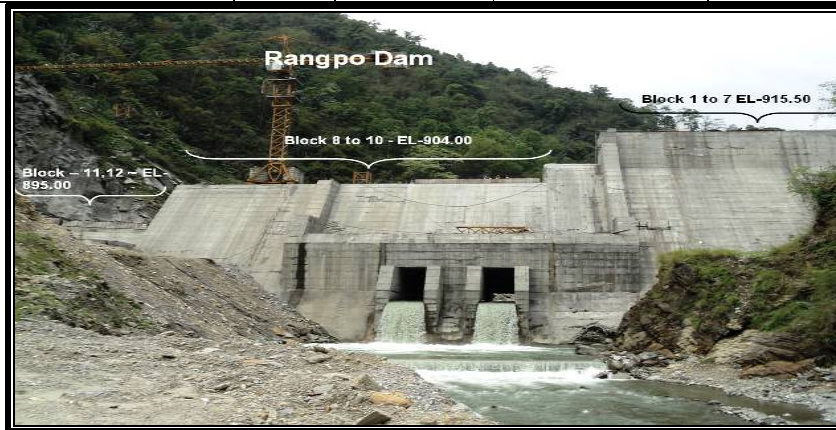


Horizontal Pressure Shaft at Power House Locaton

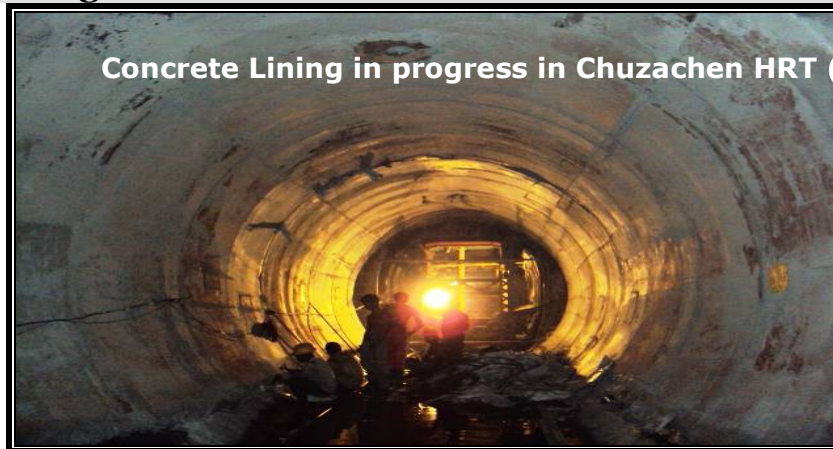
## Annexure-6

CHUZACHEN HYDROELECTRIC POWER PROJECT PROGRESS REPORT AS ON 15th May, 2011						
S.NO	NAME OF THE COMPONENT	UNIT	TOTAL QUANTITY	CUMMULATIVE Achieved	BALANCE QUANTITY	Expected Date of Completion
<b>(A)</b>	<b>DAMS</b>					
<b>1</b>	<b>RONGLI DAM</b>					
(a)	Excavation	Cum	55000	55000	0	Completed
(b)	Concreting	Cum	36500	36500	0	
(c)	Intake concreting	Cum	6544	6544	0	
<b>2</b>	<b>RANGPO DAM</b>					
(a)	Excavation	Cum	110000	110000	0	Completed
(b)	Concreting	Cum	81000	72965	8035	30 <sup>th</sup> Jun, 11
(c)	Intake Concreting	Cum	7107	7107	0	Completed
<b>(B)</b>	<b>Tunneling</b>					
	<b>Adits</b>					
(a)	Adit-1	Mtr	613.8	613.8	0	Completed
(b)	Adit-2	Mtr	744.5	744.5	0	
(c)	Adit-3	Mtr	96	96	0	
(d)	Adit to HRT below Surge Shaft	Mtr	216.5	216.5	0	
(e)	Adit-5	Mtr	144	144	0	
	<b>Total</b>		<b>1814.8</b>	<b>1814.8</b>	<b>0</b>	
<b>I</b>	<b>HRT (Excavation)</b>					
(a)	Face-1	Mtr	1763	1763	0	Completed
(b)	Face-2	Mtr	841	841	0	
(c)	Face-3	Mtr	513.5	513.5	0	Completed
(d)	Face-4	Mtr	1563.5	1563.5	0	
(e)	Face-5	Mtr	525	525	0	Completed
(f)	Face-6	Mtr	735	735	0	
(g)	Face-7	Mtr	468	468	0	Completed
(h)	Face-8	Mtr	1511	1511	0	
	<b>Total</b>		<b>7920</b>	<b>7920</b>	<b>0</b>	
<b>II</b>	<b>HRT (Lining)</b>					
(a)	Face -1 & 2	Mtr	2604	1034.2	1569.8	15 <sup>th</sup> Jul, 11
(b)	Face -3 & 4	Mtr	2077	1082.3	994.7	
(c)	Face -5 & 6	Mtr	1260	143	1117	
(d)	Face -7 & 8	Mtr	1651	144.5	1506.5	
(a)	Steel Liner Erection	Mtr	328	328	0	Completed
	<b>Total</b>		<b>7920</b>	<b>2732</b>	<b>5188</b>	
<b>(C)</b>	<b>SURGE SHAFT</b>					
(a)	Excavation	Mtr	137	137	0	Completed
(b)	Concreting	Mtr	130.5	130.5	0	Completed
<b>(D)</b>	<b>PENSTOCK</b>					
<b>I</b>	<b>PENSTOCK CIVIL WORKS</b>					
(a)	Excavation	Cum	24132	24132	0	Completed
(b)	Concreting (Anchorblocks & saddle supports)	Cum	14000	13404	596	15 <sup>th</sup> Jun, 11

<b>II</b>	<b>PENSTOCK (MECHANICAL WORKS)</b>					
(b)	Penstock Erection	Mtr	645	612.25	32.75	31 <sup>st</sup> May, 11
<b>(E)</b>	<b>POWER HOUSE( CIVIL WORKS)</b>					
(a)	Excavation	Cum	191341	191341	0	Completed
(b)	Concreting	Cum	6462.5	6462.5	0	
<b>(F)</b>	<b>Switchyard (Civil Works)</b>					
(a)	Excavation	Cum	20000	20000	0	Completed
(b)	Concreting	Cum	2000	2000	0	
<b>(G)</b>	<b>Tail Race Channel</b>					
(a)	Excavation	Cum	7739	7739	0	Completed
(b)	Concreting	Cum	5107	5107	0	
<b>(H)</b>	<b>Transormer bay Concreting</b>	Cum	1575	1575	0	Completed
<b>(I)</b>	<b>Electro Mechanical</b>					
(a)	Switchyard	%	100	100	0	Completed
(b)	UNIT- 1 Commissioning	%	100	85	15	31 <sup>st</sup> July, 11
(c)	UNIT- 2 Commissioning	%	100	85	15	16 <sup>th</sup> Aug, 11
<b>(J)</b>	<b>132 KV Transmission Line</b>					
(a)	Foundation Work	Nos.	91	89	2	25 <sup>th</sup> May, 11
(b)	Tower erection	Nos.	91	84	7	31 <sup>st</sup> May, 11
(c)	Stringing	Kms	23.716	6.731	16.985	30 <sup>th</sup> Jun, 11



## B. Tunneling



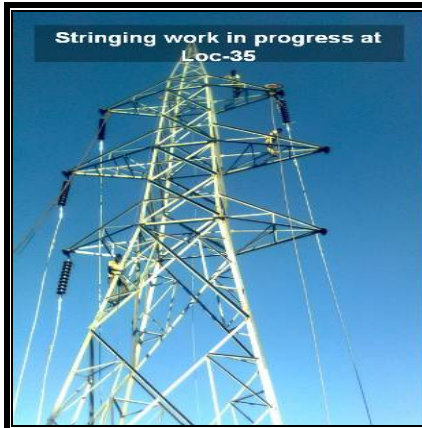
**Leveling course for Epoxy flooring in Service bay**



**Railing work completed on top of TRC side walls**



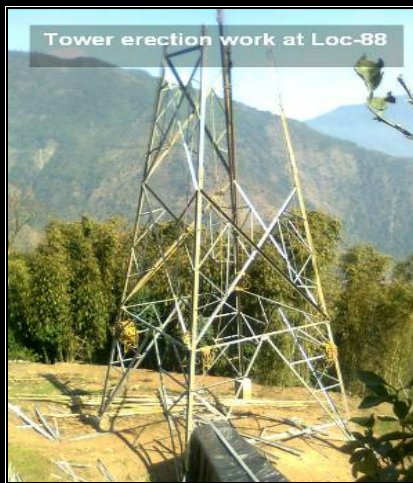
**Stringing work in progress at Loc-35**



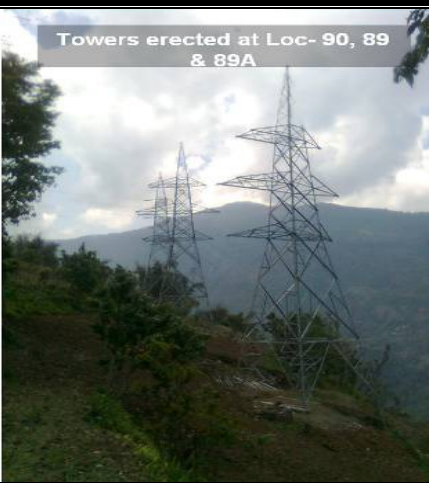
**Foundation work in progress at Loc-77**



**Tower erection work at Loc-88**



**Towers erected at Loc- 90, 89 & 89A**



## BHASMHEY HYDRO ELECTRIC POWER PROJECT

Activity	Est.Qty	Cum. Achievement	% age Completion As on 15th May '11
<b>Diversion Road</b>	550 mtr	526	96%
<b>Surge Shaft Approach Road</b>	400 mtr	150	37.50%
<b>Adit 1</b>	80 mtr	28.5	36%
<b>Adit 2</b>	477 mtr	56.2	12%
<b>Adit 3</b>	266 mtr	53.8	20%
<b>Power House Excavation</b>	145000 cum	17600	12%
<b>Diversion Tunnel</b>	335 mtr	8	2%

### Adit 2



**Annexure-8**

**STATUS OF THE GENERATION PROJECT**

**Applicant Name/ Gen. Capacity : Shiga Energy Private Limited/ 97MW**

<b>SIN</b>	<b>Item</b>	<b>Status / Information</b>
<b>1.</b>	<b>Generation location</b>	
	Location of power project (name of village/town, district/State)	<i>Tashiding / West District/ Sikkim</i>
	Detail vicinity map of the project site on topo sheets to gather relative locations of other generation projects in the vicinity	<i>Attached</i>
	Latitude & Longitude of the project site	<i>27° 20'28" N &amp; 88° 13' 59" E</i>
<b>2.</b>	<b>Land</b>	
	Total Land required for the project	<i>26.0472 Ha</i>
	Type of Land proposed (Govt or private)	<i>Private and Forest land</i>
	Area of land already acquired & possessed (i) Govt (ii) Private	<i>Under process</i>
	Status of land to be acquired like date of notification for and acquisition	<i>Handing over of forest land completed and for private land, Notification under Section-6 under process. June 2011</i>
	<b>Status of possession of land</b>	<i>Under process</i>
<b>3.</b>	<b>Fuel</b>	
	Type of Fuel (Gas/domestic coal/imported coal/Hydro)	<i>Hydro</i>
	Status of fuel tie-up for the total quantity of fuel required to generate full power at normative availability. Indicate status of mine allocation or fuel linkage	<i>Implementation Agreement signed with Govt. of Sikkim on 3<sup>rd</sup> Sep 2008</i>
<b>4.</b>	<b>Water</b>	
	Status of in-principle approval from concerned State irrigation department Date of application, likely date by which it shall be available	<i>NA</i>
<b>5.</b>	<b>Water Supply arrangement /Pipeline connection</b>	<i>NA</i>
<b>6.</b>	<b>Environment Clearance</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	<i>Final clearance from MoEF obtained on 29<sup>th</sup> July 2010.</i>
<b>7.</b>	<b>Forest Clearance:</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	<i>In-principle approval obtained for forest land from MoEF and handing over of the land is completed.</i>
<b>8.</b>	<b>EPC Contract Status</b>	
	Date/ Likely date of placement of contract for main plant	<i>Civil &amp; HM contract: Placed on 28<sup>th</sup> March 2011</i>
	Date/Likely date of placement of contract for Boiler	<i>E&amp;M contract: 21<sup>st</sup> May 2010</i>
	Date/Likely date of placement of contract for Turbine/Generator	
<b>9.</b>	<b>Status of PPA with beneficiaries including case-1 bids if applied for</b>	<i>Not yet applied</i>
<b>10.</b>	<b>Proposed Date of financial closure</b>	<i>June 2011</i>
<b>11.</b>	<b>Expected commissioning schedule (unit wise)</b>	<i>Unit-1(48.5 MW)-Jan' 2014 Unit-2(48.5 MW)-Mar' 2014</i>

## Annexure-9

### STATUS OF THE GENERATION PROJECT

**Applicant Name/ Gen. Capacity : TT Energy Private Limited/ 99MW**

SIN o	Item	Status / Information
<b>1.</b>	<b>Generation location</b>	
	Location of power project (name of village/town, district/State)	<i>Yuksum / West District/ Sikkim</i>
	Detail vicinity map of the project site on topo sheets to gather relative locations of other generation projects in the vicinity	<i>Attached</i>
	Latitude & Longitude of the project site	<i>27° 18'42" N &amp; 88° 12' 34" E</i>
<b>2.</b>	<b>Land</b>	
	Total Land required for the project	<i>25.4924 Ha</i>
	Type of Land proposed (Govt or private)	<i>Both</i>
	Area of land already acquired & possessed (i) Govt (ii) Private	<i>Under process</i>
	Status of land to be acquired like date of notification for and acquisition	<i>In-principle approval obtained for forest land and private land under Section-4 in process. August 2011</i>
	<b>Status of possession of land</b>	<i>Under process</i>
<b>3.</b>	<b>Fuel</b>	
	Type of Fuel (Gas/domestic coal/imported coal/Hydro)	<i>Hydro</i>
	Status of fuel tie-up for the total quantity of fuel required to generate full power at normative availability. Indicate status of mine allocation or fuel linkage	<i>Implementation Agreement signed with Govt. of Sikkim on 3<sup>rd</sup> Sep 2008</i>
<b>4.</b>	<b>Water</b>	
	Status of in-principle approval from concerned State irrigation department Date of application, likely date by which it shall be available	<i>NA</i>
<b>5.</b>	<b>Water Supply arrangement /Pipeline connection</b>	<i>NA</i>
<b>6.</b>	<b>Environment Clearance</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	<i>Awaiting final letter from MoEF. June 2011</i>
<b>7.</b>	<b>Forest Clearance:</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	<i>In-principle approval obtained for forest land from MoEF August 2011</i>
<b>8.</b>	<b>EPC Contract Status</b>	
	Date/ Likely date of placement of contract for main plant	<i>Civil &amp; HM contract: August 2011</i>
	Date/Likely date of placement of contract for Boiler	<i>E&amp;M contract: May 2010</i>
	Date/Likely date of placement of contract for Turbine/Generator	<i>(Lol issued), Final contract expected by August 2011</i>
<b>9.</b>	<b>Status of PPA with beneficiaries including case-1 bids if applied for</b>	<i>Not yet applied</i>
<b>10.</b>	<b>Proposed Date of financial closure</b>	<i>September 2011</i>
<b>11.</b>	<b>Expected commissioning schedule (unit wise)</b>	<i>Unit-1(49.5 MW)-Feb' 2014 Unit-2(49.5 MW)-Apr' 2014</i>

### STATUS OF THE GENERATION PROJECT

**Applicant Name/ Gen. Capacity : Gati Infrastructure Sada Mangder Power Private Limited / 54MW**

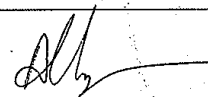
SIN	Item	Status / Information
<b>1.</b>	<b>Generation location</b>	
	Location of power project (name of village/town, district/State)	Sada Mangder, Ravangla, Sikkim
	Detail vicinity map of the project site on topo sheets to gather relative locations of other generation projects in the vicinity	Attached
	Latitude of the project site	88° 19' 33" - 88° 21' 05" E
	Longitude of the project site	27° 21' 50" - 27° 24' 40" N
<b>2.</b>	<b>Land</b>	
	Total Land required for the project	Survey Under Progress
	Type of Land proposed (Govt or private)	
	Area of land already acquired & possessed (i) Govt (ii) Private	
	Status of land to be acquired like date of notification for and acquisition	June 2011
	<b>Status of possession of land</b>	
<b>3.</b>	<b>Fuel</b>	
	Type of Fuel (Gas/domestic coal/imported coal/Hydro)	Hydro
	Status of fuel tie-up for the total quantity of fuel required to generate full power at normative availability. Indicate status of mine allocation or fuel linkage	
<b>4.</b>	<b>Water</b>	
	Status of in-principle approval from concerned State irrigation department Date of application, likely date by which it shall be available	
<b>5.</b>	<b>Water Supply arrangement /Pipeline connection</b>	
<b>6.</b>	<b>Environment Clearance</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	Environment clearance obtained from MOEF on dated 15.05.2007 with letter no. J-12011/26/2007-IA-1
<b>7.</b>	<b>Forest Clearance:</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	Still pending/ forest clearance will be obtained by July, 2011
<b>8.</b>	<b>EPC Contract Status</b>	
	Date/ Likely date of placement of contract for main plant	
	Date/Likely date of placement of contract for Boiler	
	Date/Likely date of placement of contract for Turbine/Generator	Nov 2011
<b>9.</b>	<b>Status of PPA with beneficiaries including case-1 bids if applied for</b>	
<b>10.</b>	<b>Proposed Date of financial closure</b>	
<b>11.</b>	<b>Expected commissioning schedule (unit wise)</b>	Unit-1(27MW)- Sep'14 Unit-2(27MW)- Sep'14

## Annexure-11

**STATUS OF THE GENERATION PROJECT**

Applicant Name/ Gen. Capacity: 96MW Dikchu HEP,  
M/s. Sneha Kinetic Power Projects Private Limited

<b>1.</b>	<b>Generation location</b>	
	Location of power project (name of village/town,district/State)	Dikchu village, East district, ,Sikkim State
	Detail vicinity map of the project site on topo sheets to gather relative locations of other generation projects in the vicinity	Enclosed as Annexure 1
	Latitude & Longitude of the project site	27°24'45"N 88°32'00"E
<b>2.</b>	<b>Land</b>	
	Total Land required for the project	49.46 ha
	Type of Land proposed (Govt or private)	Both Private and Govt. land are required
	Area of land already acquired & possessed	
	(i) Govt	9.71 ha
	(ii) Private	39.75ha
	Status of land to be acquired like date of notification for and acquisition	Project Land acquisition is completed except for transmission line
	Status of possession of land	Land is in companies possession
<b>3.</b>	<b>Fuel</b>	
	Type of Fuel (Gas/domestic coal/imported coal/Hydro)	Hydro
	Status of fuel tie-up for the total quantity of fuel required to generate full power at normative availability. Indicate status of mine allocation or fuel linkage	NA
<b>4.</b>	<b>Water</b>	
	Status of in-principle approval from concerned State irrigation department Date of application, likely date by which it shall be available	NA
<b>5.</b>	<b>Water Supply arrangement /Pipeline connection</b>	NA
<b>6.</b>	<b>Environment Clearance</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	NOC obtained on 01/04/2008
<b>7.</b>	<b>Forest Clearance:</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	Final approval obtained on 22/01/2010
<b>8.</b>	<b>EPC Contract Status</b>	
	Date/ Likely date of placement of contract for main plant	22/03/2011
	Date/Likely date of placement of contract for Boiler	NA
	Date/Likely date of placement of contract for Turbine/Generator	22/03/ 2011
<b>9.</b>	<b>Status of PPA with beneficiaries including case-1 bids if applied for</b>	03/08/09
<b>10.</b>	<b>Proposed Date of financial closure</b>	March 2011
<b>11.</b>	<b>Expected commissioning schedule (unit wise)</b>	Unit 1 (32 MW) - Sept 2013 Unit 2( 32 MW) - Oct. 2013 Unit 3 (32MW) – Dec 2013



## STATUS OF THE GENERATION PROJECT

Applicant Name/ Gen. Capacity : LETHANG HEP (96+10% overload provision MW)

SN.	Item	Status / Information
1.	<b>Generation location</b>	
	Location of power project (name of village/town, district/State)	Village-Lethang (Near Yuksum) West Sikkim/ Sikkim
	Detail vicinity map of the project site on topo sheets to gather relative locations of other generation projects in the vicinity	Attached plate-I
	Latitude & Longitude of the project site	Lat- 27 <sup>0</sup> 22' 0.1"N Long-88 <sup>0</sup> 12' 22.9"E
2.	<b>Land</b>	
	Total Land required for the project	24.63Ha
	Type of Land proposed (Govt or private)	Forest/Govt and Private
	Area of land already acquired & possessed (i) Govt (ii) Private	Land identified for acquisition.
	Status of land to be acquired like date of notification for and acquisition	Yet to be obtained. Process initiated. Notification after NBWL clearance.
	<b>Status of possession of land</b>	Yet to be possessed
3.	<b>Fuel</b>	
	Type of Fuel (Gas/domestic coal/imported coal/Hydro)	Hydro
	Status of fuel tie-up for the total quantity of fuel required to generate full power at normative availability. Indicate status of mine allocation or fuel linkage	
4.	<b>Water</b>	
	Status of in-principle approval from concerned State irrigation deptt. Date of application, likely date by which it shall be available	Water availability certificate issued by SPDC
5.	<b>Water Supply arrangement /Pipeline connection</b>	NA
6	<b>Environment Clearance</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	Public hearing completed on 16 <sup>th</sup> Sept;2010 and was successful. Environment clearance awaited. # Clearance from fisheries deptt obtained
7.	<b>Forest Clearance:</b>	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	Proposal for diversion of forest land approved by Govt of Sikkim. The proposal has been submitted to Chief conservator of forest (Central), MOEF, Shillong. Applied to Nodal officer, FCA, Sikkim on 15 <sup>th</sup> Feb'2010. Expected by Oct;2011.
8.	<b>EPC Contract Status</b>	
	Date/ Likely date of placement of contract for main plant	Initiated the tendering process in sept'2010 for civil, HM and E&M works which has now been put on hold
	Date/Likely date of placement of contract for Boiler	
	Date/Likely date of placement of contract for Turbine/Generator	
9.	<b>Status of PPA with beneficiaries including case-1 bids if applied for</b>	Yet to be applied
10.	<b>Proposed Date of financial closure</b>	December'2011
11.	<b>Expected commissioning schedule (unit wise)</b>	Unit-1 (32 MW)-April'2015 Unit-2 (32 MW)-May'2015 Unit-3 (32 MW)-June;2015