

# PUBLIC HEARING REPORT OF 25 MW RAHI KYOUNG HYDRO ELECTRIC POWER PROJECT UPPER DZONGU, NORTH SIKKIM



CONDUCTED BY:

STATE POLLUTION CONTROL BOARD-SIKKIM

DEPARTMENT OF FOREST, ENVIRONMENT & WILDLIFE MANAGEMENT  
GOVERNMENT OF SIKKIM  
DEORALI - GANGTOK

## FOREWORD

M/s Sikkim Engineering Pvt. Ltd. proposes to construct a 25 MW hydro-electric project by harnessing the water of River Rahi Kyoung, near village Saffo in the North District of Sikkim. Rahi Kyoung Hydro Electric Project is a Run-of-the-River type development envisaging utilization of about 375 m of gross head available in the Rahi Chu River which is a tributary of the Tolung Chu River that confluences with the Teesta River in the Eastern State of Sikkim. The installed capacity of the project would be 25 MW comprising three generating units, each of 8.33 MW capacity. The diversion structure of trench weir type would be located close to Pakyel Village. The aerial distance of the trench weir from Pakyel village would be about 900 m and that from Saffo village would be about 2.8 km. The difference in altitude between the weir site and the Pakyel village would be about 400 m whereas that between the weir site and the Saffo village would be about 800 m.

Since Rahi Kyoung Hydro Electric Project is of small hydro category (25 MW), therefore annual energy and load factor of the project was estimated on the basis of 75% dependability. Relevant information on base-line environment was collected, necessities of forest and environmental clearance were elucidated, and outlines of environmental management plan and disaster management plan were provided.

Construction and equipment planning has been carried out and period of construction of the project has been assessed. Quantities of various works have been estimated, and costing of the project was done on the basis of rates of basic materials as prevalent in the region close to the project. Necessary financial analysis was carried out to compute the levellised tariff, and economic evaluation of the project was done to assess the Internal Rate of Return, Net Present Value and Benefit-Cost ratio.

The Government of India vide notification S.O. No. 1533 (E) dated 14<sup>th</sup> September 2006 has made public hearing mandatory for hydro-electric projects prior to its

commencement. Hence, this public hearing 18<sup>th</sup> (Eighteenth) of its kind in the State of Sikkim was conducted by State Pollution Control Board - Sikkim on 20<sup>th</sup> April 2017 at Saffo Gumpa Ground, Upper Dzongu, North Sikkim.

The views, comments, suggestions and the observations of the public along with written suggestions received from the people of the area who have a plausible stake in the environment aspects of the project activities have been incorporated in this Report.

The Report, I hope shall be of great help for the Project Developers and the Management Authorities for keeping necessary mitigative measures considering the larger interest of the Public, their feelings and the safeguard of the environment.

**(C.S. Rao), IFS  
Member Secretary  
State Pollution Control Board - Sikkim.**

# **PUBLIC HEARING OF 25 MW RAHI KYOUNG HYDROELECTRIC PROJECT UPPER DZONGU, NORTH SIKKIM**

**20<sup>TH</sup> APRIL 2017**

## **INTRODUCTION:**

In fulfillment of the requirement of the Gazette notification S.O. No. 1533 (E) dated 14<sup>th</sup> September 2006, the State Pollution Control Board, Sikkim published notices in one national daily “The Statesman”, “Samay Dainik” (Regional Vernacular Daily) “Sikkim Reporter” (Regional English Daily) and “Sikkim Herald Lepcha Edition” the official paper of the State Govt. inviting suggestions, views, comments & objections from persons including bonafide residents, environmental groups and others who have a plausible stake in the environmental aspects of the project or activity. The Public hearing was accordingly conducted by the State Pollution Control Board-Sikkim on 20<sup>th</sup> April 2017 at Saffo Gumpa Ground, Upper Dzongu, North Sikkim for the proposed 25 MW Rahi Kyoung Hydro Electric Project, Upper Dzongu, North Sikkim.

The public hearing was attended by Hon’ble Chairperson, SPCB-Sikkim Smt. Kalawati Subba, Hon’ble Area MLA, Dzongu, Shri Sonam Gyatso Lepcha, Shri Karma R. Bonpo, IAS, DC, North District, Shri C.S. Rao, IFS, Member Secretary, SPCB-Sikkim, Shri Bechung Lepcha, ADC, Chungthang, Shri Nagendra Dhakal, Dy. Director, Fisheries (North), Shri D.B. Rai, Joint Director, Fisheries (North), Dr. Gopal Pradhan, Principal Scientist SPCB-Sikkim, Shri B.K. Chettri, Sr. Scientific Officer, SPCB, Shri Tenzing Norbu Lepcha, DFO (T), North, Shri Thinlay Gyamtso, A.E. Dzongu, Energy & Power Deptt., Shri Ranjan Rai, Asstt. Env. Engineer, SPCB-Sikkim, Smt. K. Z. Bhutia, Asstt. Scientific Officer, SPCB-Sikkim, Zilla Panchayat, Panchayat Members, officials of SPCB-Sikkim, Sikkim Engineering Pvt. Ltd., and public from Saffo, Salim Pakyel, Leek, Passingdang, Singhik, Noom-Panang, Liching, Lingdem vilages etc.

The public hearing started at 10.00 am at Saffo Gumpa Ground, Upper Dzongu, North Sikkim, with the introductory note and welcome speech by Dr. Gopal Pradhan, Principal Scientist, State Pollution Control Board-Sikkim. In his introductory speech, he briefed the gathering about the mandatory requirement to hold such public hearing meetings as per the new “Environment Impact Assessment Notification” brought out by the Ministry of Environment & Forest, Government of India on 14<sup>th</sup> September 2006. He further informed that, the EIA Notification of 2006 had authorized the State Pollution Control Board to conduct such public hearings for any project where the environment is likely to be damaged. Further, he explained, this kind of exercise provides suggestions and approaches for proper implementation of the project, provides for greater transparency and peoples participation in making the project successful. He also informed that, all the requirements have been fulfilled in informing and educating the people about this public hearing. He told the gathering that, the Public Notices had been brought out in one national daily “The Statesman”, “Samay Dainik” (Regional Vernacular Daily) “Sikkim Reporter” (Regional English Daily) and “Sikkim Herald Lepcha Edition” the official paper of the State Govt. The Executive Summary, DPR, the EIA and EMP of the proposed project was made available in the offices of the District Collector (North), North Sikkim, State Pollution Control Board, Deorali, Gangtok – East Sikkim, office of the Zilla Adakshya, North, Mangan, office of the District Industries Centre, North Office of SDM, Dzongu, Gram Prasasan Kendra, Saffo, North and Executive Summary of the project and EIA was displayed in the website [www.sikenviis.nic.in](http://www.sikenviis.nic.in). Dr. Gopal Pradhan, Principal Scientist also welcomed all the dignitaries and the people present on the occasion to put forth their valuable suggestions, comments, views, observation in the public hearing session.

This was followed by a presentation about the project by Shri P. M. Nanda, C.O.O., M/s Sikkim Engineering Pvt. Ltd. (SEPL) with introduction and warm welcome to all the people present on the occasion. He said that the Government of Sikkim has awarded this project to M/s Sikkim Engineering Pvt. Ltd. in true faith and belief. He expressed his sincere thanks to the Government for having faith in the competence of

the developers by awarding of 25 MW Rahi Kyoung Hydro Project. He also expressed his sincere thanks to Shri Sonam Gyatso Lepcha, Hon'ble Area MLA, Dzongu constituency for his guidance and co-operation. He also thanked Smt. Kalawati Subba, Chairperson, State Pollution Control Board-Sikkim, for extending co-operation to the Company. He expressed his thankfulness to District Magistrate, District Administration and the people of the respective GPUs. He also expressed his sincere thanks to the Power Department, Fisheries Department and SPCB – Sikkim for their constant support and co-operation.

Shri P. M. Nanda, C.O.O, M/s Sikkim Engineering Pvt. Ltd. informed the gathering that MoU has been signed with the Government of Sikkim. As per MoU signed the project shall be handed over to the Government of Sikkim after 35 years. Further, the Project Developers shall provide 12% free power generated to the State Government as its share upto 15 years and thereafter 15% upto 35 years. The company has further agreed to supply additional 1% free power of the power generated or equivalent money their off from the project for the entire period of 35 years towards development of the area. The overall budget for implementing EMP is INR 1868.60 Lakhs. The detailed break-up is as follows:

<b>Sl. No.</b>	<b>Management Plans</b>	<b>Amount (Rs. in Lakhs)</b>
1.	Biodiversity Conservation & Wildlife Management plan	70.00
2.	Catchment Area Treatment Plan	45.00
3.	Fisheries Development Plan	33.23
4.	Solid Waste Management Plan	73.70
5.	Public Health Delivery System	87.40
6.	Energy Conservation Measures	81.10
7.	Muck Dumping Plan	178.00
8.	Landscaping, Restoration & Green Belt Development Plan	32.21
9.	Air & Water Management Plan	33.00

10.	Compensatory Afforestation Plan	123.96
11.	Rehabilitation and Resettlement Plan	1009.00
12.	Environmental Monitoring Programme	102.00
	<b>Total EMP-Costs</b>	<b>1868.60</b>

This was followed by detail discussion on the project components wherein people who are likely to be affected, i.e., land owners, general public and NGOs, took part in public hearing discussion. The discussion session lasted for almost two hours.

The whole proceeding came to conclusion with observation of the hearing by Shri C.S. Rao, IFS, Member Secretary followed by wrap up speech by Shri Karma R. Bonpo, IAS, D.C., North who is also the Chairman of the Public Hearing Panel after discussion with the panel member Shri C. S. Rao, IFS, Member Secretary, SPCB-Sikkim. He concluded his speech by declaring that the public hearing was very successful. The programme ended with vote of thanks by Shri B.K. Chettri, Senior Scientific Officer, SPCB-Sikkim.

## PROJECT DESCRIPTION:

Rahi Kyoung Hydro Electric Project is a Run-of-the-River type development envisaging utilization of about 375 m of gross head available in the Rahi Chu River which is a tributary of the Tolung Chu River that confluences with the Teesta River in the Eastern State of Sikkim. The installed capacity of the project would be 25 MW comprising three generating units, each of 8.33 MW capacity. The diversion structure of trench weir type would be located close to Pakyel Village. The aerial distance of the trench weir from Pakyel village would be about 900 m and that from Saffo village would be about 2.8 km. The difference in altitude between the weir site and the Pakyel village would be about 400 m whereas that between the weir site and the Saffo village would be about 800 m.

The project can be approached from Mangan, the District Head quarter of North Sikkim District. Mangan can be accessed from Gangtok, the capital of Sikkim, along Lower Butuk road and is situated at about 64 km from Gangtok. The airport nearest to the project is at Bagdogra in West Bengal which is about 124 km from Gangtok along NH 10, and 145 km from Mangan in Sikkim along NH 10. Bagdogra is connected to Kolkata and New Delhi by air. Two railway stations closer to Gangtok are Siliguri junction which is 114 km away and New Jalpaiguri which is about 125 km away.

Rahi Kyoung Hydro Electric Project would involve construction of a 3.5 m wide and 21 m long trench weir across the Rahi Chhu River to draw a discharge of  $7.94 \text{ m}^3 \text{ s}^{-1}$ . A rectangular feeder channel will carry the water from the intake to surface desilting basin. A power channel of length 31 m with an escape having crest length of 25 m will connect the desilting basin and Head Race Tunnel. The Head Race Tunnel (HRT) would be D-shaped of finished size 2.6 m (W) x 3.05 m (H) and would be about 2.462 Km long. A 83 m long, 5 m wide and 2.5 m deep partly underground and partly surface forebay would be located at the exit end of the HRT.



The penstock would be partly surface and partly underground. The main penstock having a diameter 1.59 m and 3 unit penstocks having diameter 0.92 each with total length of about 353.848 m will feed water to three units of horizontal axis, 3-jet Pelton turbines, each of 8.33 MW rated capacity in an underground powerhouse. Discharge from the power house would be released into the Tolung Chhu River through a tail race tunnel.

It is envisaged that the project would be completed in a period of 36 months from the date of award of the work. The completed cost worked out to Rs. 215.00 crore at September price level 2016.

The salient features of the project are as follows:

<b>Location</b>	
State	Sikkim
District	North Sikkim
Village	Near Saffo
Access	
Major Airport	Bagdogra
Rail Head	New Jalpaiguri and Siliguri
Road Head	42 km from Mangan via Tung Bridge on the Teesta River and Saffo village that would include a road of about 7 km length from Saffo village on the saffo-Sangkalan road being construction by the Border Roads Organisation (BRO).
Geographical co-ordinates of the diversion site	
Latitude (N)	27°32'52.348"
Longitude (E)	88°32'30.377"
Map reference	Survey of India topo-sheets: 78-A-10-2, 78-A-10-3
<b>Meteorology</b>	
Average Rainfall	About 2830 mm
Atmospheric Temperature	
Maximum Temp.	Up to about 23 <sup>0</sup> C
Minimum Temp.	Up to about 4.3 <sup>0</sup> C
<b>Hydrology</b>	
Catchment Area	53.50 km <sup>2</sup>

Design Flood	317 m <sup>3</sup> s <sup>-1</sup>
<b>Power Potential</b>	
Gross head (m)	375 m
Rated head (m)	363.80 m
Design discharge	7.94 m <sup>3</sup> s <sup>-1</sup>
Installed capacity (MW)	25
75% Dependable Energy (MU) with 95% machine availability	108.01
Plant load factor	49.3%
Net Saleable energy (MU)	93.76
<b>Diversion Structure (Head works)</b>	
Type of structure	Trench weir
Length of weir (m)	21.00
Width of trench weir (m)	3.5
Average bed level at weir (m)	1154
Full Supply Level (m)	1153
Maximum Water Level (m)	1155.24
<b>Feeder channel</b>	
Length of feeder channel (m)	31
Shape	Rectangular
Bed slope/ side slope	1 in 900
Bed Width (m)	3.0 m
Full Supply Depth (m)	1.84 m

<b>De silting basin</b>	
Type	Surface with central flushing conduit
Maximum Incoming discharges (m <sup>3</sup> s <sup>-1</sup> )	11.51
Length without transition (m)	49.0
Width (m)	10.0
Height above hoppers up to FSL (m)	6.0
Pipe for silt flushing at lower level	0.6 m dia., 30 m long
<b>Head Race Tunnel</b>	
Shape	D-shaped
Length (m)	2462
Slope	1:500
Size (m)	2.6 (W) x 3.05 (H)
Adit-I	D-Shaped, 3.0 (W) x 3.35 (H), 73 m long
<b>Fore bay (Partly underground and partly surface)</b>	
<b>Shape</b>	D-shaped (Underground) and Rectangular (surface)
Length (m)	83

Width (m)	5.0
Depth (m) for 2 min. Storage	2.5
FSL at Forebay (m)	1147.956
Minimum Drawdown Level (MDDL), m	1145.456
<b>Overflow Channel</b>	
Location	Provided on right side of forebay
Size (m) and Shape	3 (Bed width), Trapezoidal
Discharging capacity ( $\text{m}^3\text{s}^{-1}$ )	7.94
Length of channel (m)	550 m (Approx.)
<b>Penstock and Pressure Shaft</b>	
Number	
Main penstock	1
Unit penstock	3
Diameter of main penstock (m)/unit penstock (m)	1.59/0.92
Thickness of steel liner (mm)	8 to 32
Grade of Steel	A537, Class-I
Length of main penstock (m)	353.848
Length of main pressure shaft (m)	71.0 (horizontal), 180.51 (vertical)
<b>Underground Power House</b>	
Size of machine hall cavern (m)	50.0 (L) x 14.0 (W) x 24.0 (vertical)
Installed capacity (MW)	3 x 8.33
Main Access Tunnel (MAT)	D-Shaped, 6.0 m (W) x 5.5 m (H) & 135m long
Construction adit to top of powerhouse cavern/ventilation duct	D-shaped, 2.3 m (W), 3.15 m (H) & 125 m long
Maximum Tail water level (m)	778.0
<b>Electro-mechanical</b>	
Turbine	
No. and Type	3 nos., Horizontal Pelton with Three Jets
Efficiency	92%
Maximum available gross head (m)	375
Rated head (m)	363.80
Design discharge ( $\text{m}^3\text{s}^{-1}$ )	7.94

Speed	600 rpm
Inlet Valve	Spherical Valve
<b>Generator</b>	
Type	Synchronous type
Rated Out put	3 x 8.33 MW
Efficiency	98%
Power factor	0.90

Speed	600 rpm
Voltage	11 kV $\pm$ 10%
<b>Tailrace Tunnel</b>	
Shape	D-Shaped
Length (m)	124
Slope	1:1500
Size (m)	2.6 (W) x 3.05 (H)
<b>Costs</b>	
Price level	Sep. 2016
Interest during construction and Front End Fees (INR)	12.64 Cr.
Completed project cost (INR)	215.00 Cr.

The Government of India vide notification S.O. No. 1533 (E) dated 14<sup>th</sup> September 2006 has made public hearing mandatory for hydro-electric projects prior to its commencement. Hence, this public hearing 18<sup>th</sup> (Eighteenth) of its kind in the State of Sikkim was conducted by State Pollution Control Board - Sikkim on 20<sup>th</sup> April 2017 at Saffo Gumpa Ground, Upper Dzongu, North Sikkim.



**STATE POLLUTION CONTROL BOARD-SIKKIM**  
**DEPARTMENT OF FOREST, ENVIRONMENT & WILDLIFE MANAGEMENT**  
**GOVERNMENT OF SIKKIM**  
**DEORALI, GANGTOK.**

## PUBLIC HEARING NOTICE

M/s Sikkim Engineering Pvt. Ltd. proposes to construct a 25 MW hydro-electric project by harnessing the water of River Rahi Kyoung, near village Saffo in the North District of Sikkim. The Salient features of the 25 MW Rahi Kyoung hydro electric project are as under:

### SALIENT FEATURES OF RAHI KYOUNG H.E. PROJECT:

<b>Location</b>	
State	Sikkim
District	North Sikkim
Village	Near Saffo
Access	
Major Airport	Bagdogra
Rail Head	New Jalpaiguri and Siliguri
Road Head	42 km from Mangan via Tung Bridge on the Teesta River and Saffo village that would include a road of about 7 km length from Saffo village on the Saffo-Sangkalan road being construction by the Border Roads Organisation (BRO).
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Price level	Sep. 2016
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Whereas by notification of the Govt. of India in the Ministry of Environment & Forests, Govt. of India No. S.O. 1533 (E) dated 14<sup>th</sup> September 2006 issued under sub-section (1) and clause V of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 read with clause (d) of sub-rule (3) of Rule 5 of Environment (Protection) Rules, 1986 and in suppression of the notification no. S.O. 60 (E) dated 27<sup>th</sup> January 1994 as made mandatory under part II, section 7, sub-section 3 dated 14<sup>th</sup> September 2006, the State Pollution Control Board is required to conduct Public Hearing in the interest of the public for preparing recommendations based on the technical assessment of documents and data furnished by the Project Authorities for obtaining necessary environmental clearance from MoEF, Govt. of India. Therefore notice is hereby given to all concerned persons, having a plausible stake in the environment aspects of the project or activity and to provide responses in writing or by participating in the public hearing to be conducted on 20<sup>th</sup> April 2017 at Saffo Gumpa Ground, North Sikkim at 10.00 A.M. onwards. Any person having plausible stake in the environmental aspects of the project or activity can submit their responses before the hearing date which may be addressed to the Member-Secretary, State Pollution Control Board-Sikkim, Department of Forest, Environment & Wildlife Management, Govt. of Sikkim, Deorali, Gangtok. Further access to the details of the project/executive summary, has been made available in the web-site [www.sikensis.nic.in](http://www.sikensis.nic.in) / [www.spcbsikkim.org](http://www.spcbsikkim.org) and at the offices of the State Pollution Control Board- Sikkim, Deorali, Gangtok, Office of the District Collector (North) Mangan, District Industry Office, Mangan, North Sikkim and Zilla Parisad Bhawan, Mangan, North Sikkim.

Member Secretary,  
State Pollution Control Board-Sikkim  
Department of Forest, Env. & W/L Management  
Government of Sikkim  
Deorali – Gangtok.

## DISCUSSION

### Question & Answer session

Q. 1. Will we get the benefit from 12% free electricity which you'll award to state Government?	<b>Ans:</b> According to MoU we'll award 12% free electricity to state Govt. The Govt. Will be sole owner of the free electricity. So, regarding the benefit to the local public, we'll give benefit through the Social Corporate Responsibility/Local Area Development fund. <b>Shri P.M. Nanda, COO</b> <b>Sikkim Engineering Pvt. Ltd.</b>
<b>Shri Dawa Lepcha, Saffo</b> Q. 2. Will we get job facility? Please construct a good road of our area?	<b>Ans:</b> Yes, definitely, the local people will get job facility during the construction period and yes we'll definitely construct the road for the affected area. <b>Shri P.M. Nanda, COO</b> <b>Sikkim Engineering Pvt. Ltd.</b>
<b>Shri Dawa Lepcha, Saffo</b> Q. 3. My point is about education. So I request Project Developer to provide residential type of education/hostel facility, scholarship to bright students till higher education if possible upto the university level. And I also request the Developer to appoint one science teacher in Saffo School for the welfare of children of Saffo village.	<b>Ans:</b> Regarding hostel facility, we'll definitely do the work through fund allocated for Local Area Development in consultation with local panchayats. Land for the same should be provided by the panchayat. For scholarship of the student, those bright students who'll be selected from the Govt. School, they'll be awarded with scholarship in consultation with panchayat and affected people committee. For science teacher, we'll definitely provide one science teacher and the salary expenses will be borne by the Project itself. <b>Shri P.M. Nanda, COO</b> <b>Sikkim Engineering Pvt. Ltd.</b>
<b>Ms. Sonam Ongmu, Saffo</b> Q. 4. After completion of the project who will look after our children who are getting scholarship from the project?	<b>Ans:</b> That will be overseen by the public welfare department of the committee; we'll only provide the fund. (1% of the fund against free power of the electricity generated). <b>Shri P.M. Nanda, COO</b> <b>Sikkim Engineering Pvt. Ltd.</b>
<b>Shri. Sonam Lepcha, Saffo</b> Q.5. During the time of implementation of the project, will there be involvement of Sikkim Power Development Corporation's?	<b>Ans:</b> No Sir. <b>Shri P. M. Nanda, COO</b> <b>Sikkim Engineering Pvt. Ltd.</b>
<b>Shri. Sonam Lepcha, Saffo</b> Q.6. if there will be damage in the	<b>Ans:</b> The land which is not acquired by the



<p>remaining land around the project in the construction area, what will be the initiative /measures you are going to take up?</p> <p><b>Shri Lakpa Lepcha, Saffo</b></p>	<p>project and gets damaged during construction of the project, all those compensation of the land will be decided in consultation with D.C./District Administration and the Land Revenue Department, Govt. of Sikkim. Whatever the compensation they'll suggest we will definitely pay that compensation.</p> <p><b>Shri P.M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>
<p>Q.7. what about the other villages which are under this GPU nearby the project area regarding the benefit of upcoming of the project?</p> <p><b>Shri Sonam Wangchuk Lepcha, Noom-panang</b></p>	<p><b>Ans:</b> Project affected area is designated by District Administration and all norms applicable for development of the project and others are applicable to the project affected area. The fund distribution will be directly to the affected area but other affected area will also get their share but it is less in comparison to the affected area during the construction phase. Also during the execution of the project there will be Joint Committee who will look after the matter.</p> <p><b>Shri P.M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>
<p>Q.8. What about the benefit to local public during the time of road extension of the project?</p> <p><b>Shri Tashi Namgyal Lepcha, Noom-Panang</b></p>	<p><b>Ans:</b> During the construction and extension of the road, the works like wall formation will be awarded to local contractor only.</p> <p><b>Shri P. M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>
<p>Q.9. My question is regarding sustainable development (livelihood). Firstly, I request project developer to establish dairy farming. Secondly, to promote eco-tourism in our village and finally I request the project developer to promote organic farming.</p> <p><b>Shri Rinzing Namgyal Lepcha, Saffo</b></p>	<p><b>Ans:</b> Regarding dairy farming, company will help through community base because individual base is not allowed in company, if community based dairy scheme comes through panchayat then company can definitely provide the required shed for the dairy farming from the fund allocated under LADP. Land for establishment of the shed should be provided by the panchayat. For eco-tourism, we have kept the provision and definitely promote eco-tourism once the project starts. Regarding organic farming, there is no provision to contribute for organic farming by the Project Developer.</p> <p><b>Shri P. M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>
<p>Q.10. Leek village is very remote ward which comes under the project affected</p>	<p><b>Ans:</b> Regarding employment, there is criteria in job, technical and non-technical, so, if</p>

<p>area, so I request the company to construct road, to provide 1% commission from the project profit for different infrastructural development and to recruit skilled manpower in the project from our Leek village.</p> <p><b>Shri Pincho Lepcha, Leek, Saffo</b></p>	<p>technical person are available then we'll definitely provide job especially first priority will be given to land looser, then to non-land looser affected panchayat then after others those who are adjoining to the project area.</p> <p><b>Shri P.M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>
<p>Q. 11. I request the project developer to include the 1% (i.e. upto 35 lakhs) of the fund to all the Gram Panchayat Units, which will be generated after the commissioning of the project. I also request the developer to keep maintenance of the road and also request to maintain the sufficient flow of river water in the lean period to keep the water bodies and fish alive.</p> <p><b>Shri Choda Lepcha, Zilla Member, Passingdang-Saffo</b></p>	<p>Ans: The 1% (35 lakhs) fund which you have mentioned that is only tentative figure, it is not final figure, it may go up and down after commissioning of the project. Regarding the maintenance of road yes, we'll definitely do. And the ecological flow of water will be maintained at lean period to keep the water bodies alive.</p> <p><b>Shri P.M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>
<p>Q.12. I request the project developer to manage permanent source for safe drinking water.</p> <p><b>Smt. Namphi Lepcha, Saffo</b></p>	<p>Ans: yes, we'll definitely help for safe drinking water after consultation with local panchayat. The fund allocated under LADP is to be utilized for the same.</p> <p><b>Shri P. M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>
<p>Q. 13. I request the developer to construct residential hostel at Salim-Pakyel village, to install garbage disposal machine alongwith sanitation facility at public area.</p> <p><b>Mrs. Namdi Lepcha, Saffo</b></p>	<p>Ans: During construction period we'll collect solid waste generated in our project site or labour camps, to land fill site for composting. Further additional garbage which comes out of the adjoining project area will be brought to the land fill for composting.</p> <p><b>Shri P.M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>
<p>Q.14. We have small primary health centre in our village but there is lack of infrastructure facility, so I request the developer to provide the necessary infrastructure along with residential quarter for doctor and nurses. And another request is to construct helipad for welfare of public because it's need is mainly during rainy season.</p> <p><b>Smt. Chungchung Bhutia, Saffo</b></p>	<p>Ans: Regarding Primary Health Centre, we have kept extra provision in Public health liability. So, we'll definitely look after this matter. And regarding the helipad, this provision is difficult due to high cost, but if you identify the land then for its development we'll surely provide the equipments/machinery for development of helipad.</p> <p><b>Shri P. M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>

<p>Q.15. I request the developer to complete the project in time and project monitoring should be looked after by the Forest Deptt. I also request to conduct survey for accurate data and information of village and also request to take permit from District Administration for the labourers during construction phase. I on behalf of the public request the company to fulfil the demand of the public.</p> <p><b>Shri Nima Tshering Lepcha, Panchayat Member, Saffo-Liching</b></p>	<p>Ans: The total manpower requirement is 390 at this stage. Out of that local land losers will be given priority and then non-land loser of the affected area. After commissioning of the project only 20 nos. Of manpower will be required both technical and non-technical, as our project is small one. Yes, we'll definitely give the benefit through contractual works also.</p> <p><b>Shri P.M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p> <p>Ans: Don't worry about the permit of the labourers, the District Administration shall check thoroughly and issue the permit along with medical fitness certificate.</p> <p><b>Shri Karma R. Bonpo, IAS, DC, North</b></p>
<p>Q. 16. If during execution of project works land gets damaged then how it'll be compensated? There are variety of fishes found in Rahi chuu so we villagers request you to protect it on priority by releasing at least 25% of water. And how will you measure the flow of river water? At last I request the developer to construct temporary bridge at Rammam river for welfare of people.</p> <p><b>Shri Neyzing Lepcha, Senior Citizen, Passingdang</b></p>	<p>Ans: In case of damage land compensation will be given in consultation with the District Administration. For monitoring the volume of flow of water we'll install measuring device-flow meter and we'll definitely monitor it on daily basis and data shall be uploaded to our website for information to general public and stakeholders.</p> <p><b>Shri P.M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>
<p>Q. 17. As head Lama of this Gumpa, I request the project developer to construct one guest house for Lamas, one prayer hall and one parking place for vehicles at Saffo Gumpa premise.</p> <p><b>Shri Tshering Lepcha, Head Lama, Saffo Gumpa, Saffo</b></p>	<p>Ans: As I have already told you that we have allocated fund in the project, so during the implementation we'll definitely fulfil your demand.</p> <p><b>Shri P.M. Nanda, COO Sikkim Engineering Pvt. Ltd.</b></p>

**Written  
Representations  
received from the  
public on Public  
Hearing Day i.e.  
20.04.2017 and the  
Written Replies  
provided by the  
Project Developer  
after completion of the  
public hearing.**

**CONCLUDING OBSERVATIONS BY  
SHRI C. S. RAO, IFS, MEMBER SECRETARY,  
STATE POLLUTION CONTROL BOARD-SIKKIM  
20<sup>TH</sup> APRIL 2017, UPPER DZONGU, NORTH SIKKIM**

Chairman of the public hearing panel, Shri Karma R. Bonpo, IAS, District Collector, North, Hon'ble Area MLA, Dzongu, Shri Sonam Gyatso Lepcha, Smt. Kalawati Subba, Chairperson, SPCB-Sikkim, Shri Bechung Lepcha, ADC (Dev.), Chungthang, Shri Nagendra Dhakal, Dy. Director, Fisheries (North), Officers of the State Pollution Control Board-Sikkim, Forest Department, Project Developer, Zilla Panchayat, Panchayat Members and ladies and gentlemen.

Now, after having listened to your views, suggestions, opinions, comments and observations, it was very interesting to see that the participation in this public hearing was very good and the participants were found to have questioned maximum numbers and supported and welcomed the project and was of the opinion that the project should come up.

The development of the hydro electric project is the policy of the Central Government, Government of India. Considering the small size i.e. 25 MW capacity of this Rahi Kyoung Hydro-Electric Project Public Hearing to compared to 1200 MW Teesta Stage-III HEP, I request the Project Proponent, as a member of the Public Hearing panel to try to fulfill demands placed by the Public and maintain a cordial relationship with all the people of the area respecting their social, cultural and local sentiments.

I request the Project Authority to sincerely adhere to the commitments of the agreement as envisaged in the Project Report & EMP as per today's proceedings in letter and spirit. Further the points raised and suggested by all present in today's hearing be incorporated in the final report for environmental safeguard and sentiment of the general public. With these words I thank all the participants for your active participation and meaningful interaction in today's public hearing. The public hearing was successfully conducted and finally thanks to all.

## **WRAP UP SPEECH AND RECOMMENDATIONS BY**

**SHRI KARMA R. BONPO, IAS, DISTRICT COLLECTOR, NORTH**

**20<sup>th</sup> April 2017, Saffo Gumpa Ground, Upper Dzongu, North Sikkim.**

Member of the public hearing panel, Shri C.S. Rao, IFS, Member Secretary, SPCB-Sikkim, Hon'ble Chairperson, SPCB-Sikkim Smt. Kalawati Subba, Hon'ble Area MLA, Dzongu, Shri Sonam Gyatso Lepcha, Shri Bechung Lepcha, ADC, Chungthang, Shri Nagendra Dhakal, Dy. Director, Fisheries (North), Zilla Panchayat, Panchayat Members, and ladies and gentlemen.

Now, after having listened to your views, suggestions, opinions, comments and observations, it was very interesting to see that the participants were found to have supported and welcomed the project, and they were of the opinion that the 25 MW Hydro Electric project should come up.

The major thrust of all however was on the safeguard of general environment of the area, employment to the locals, award of contract to the local and safeguard of social, cultural and traditional values of the area. The questions, views, suggestions and opinion presented by the participants were meaningful and appreciable and this shall be reflected in the public hearing report. The promises and commitments made by the Project Developers in response to the suggestions, questions and views expressed were appreciated and accepted by the public who have attended this meeting.

It was nice to see that the Project Developer had assured every possible ways and means in solving the grievances of the general public present. As the Chairman of the public hearing panel, I recommend that the Project Proponent maintain a cordial relationship with all the people of the area and respect their social life, tradition, culture and sentiments.

Finally I request the Project Authority to sincerely adhere to the commitments of the agreement as envisaged in the Project Report & EMP as per today's proceedings in letter and spirit. Further the points raised and suggested by all present in today's hearing be incorporated in the final EIA & EMP reports for proper safety of the environment and sentiment of the common mass. With these words I thank all the participants for your active participation and meaningful interaction in today's public hearing. The public hearing was successfully conducted.

**Thank You.**

**VOTE OF THANKS BY**  
**Mr. B. K. Chettri,**  
**SENIOR SCIENTIFIC OFFICER**  
**State Pollution Control Board-Sikkim.**  
**20<sup>th</sup> April 2017- Saffo Gumpa Ground, Uppper Dzongu,**  
**North Sikkim**

With the wrap up speech by the Chairman of the Public Hearing Panel, DC, North, now we have come to the end of the programme. But before this, I have been assigned with the duty of offering vote of thanks. I therefore, take this opportunity to convey vote of thanks to all present here on this occasion. First of all I would like to extend our sincere thanks to the Chairman of the public hearing panel Shri Karma R. Bonpo, IAS, DC, North, Chairperson Smt. Kalawati Subba, SPCB-Sikkim, Shri C. S. Rao, IFS, Member Secretary, SPCB-Sikkim, Govt. of Sikkim. I thank Shri Sonam Gyatso Lepcha, Hon'ble Area MLA, Dzongu Constituency, North Sikkim, for sparing his valuable time. I also like to extend sincere thanks to Zilla Panchayat members, for their gracious presence. We thank S.P., North District, for providing security for smooth conduct of the programme. On behalf of the State Pollution Control Board, I take this opportunity to thank the officials of Fisheries Department, Power Department, Department of Forest, Env. & W/L Management, both Gram and Zilla panchayats and the general public for having attended this programme with their ideas, suggestions, views and guidance. We thank the Saffo Gumpa Committee, Upper Dzongu, North Sikkim for providing us the venue for today's programme.

We extend our sincere thanks to all the concerned citizens who put forth their suggestions for making this programme meaningful. We thank them for their guidance, concern and interaction in making this programme meaningful and lively. The co-operation extended by all who are present here are highly appreciated and we thank them all for their presence and support. Last but not the least I stand before you all to extend our thankfulness to all who have been involved in this programme directly or indirectly. Thank you once again.

**THANK YOU**



**PUBLIC HEARING OF 25 MW RAHI KYOUNG HYDRO-ELECTRIC PROJECT, HELD AT  
SAFFO GUMPA GROUND, UPPER DZONGU, NORTH SIKKIM**

**20<sup>TH</sup> APRIL 2017**

**Conducted by – State Pollution Control Board - Sikkim at SAFFO  
GUMPA GROUND, UPPER DZONGU, NORTH SIKKIM**

**On**

**20<sup>TH</sup> APRIL 2017.**

**PANEL FOR PUBLIC HEARING.**

<b><u>Sl. No.</u></b>	<b><u>NAME</u></b>	<b><u>DESIGNATION</u></b>
1.	Shri. Karma R. Bonpo, IAS	District Collector,  North District,  Govt. of Sikkim.
2.	Shri C. S. Rao, IFS	Member Secretary,  State Pollution Control Board-Sikkim  Deptt. of Forest, Env. & W/L Management,  Govt. of Sikkim.

# **PUBLIC HEARING OF 25 MW RAHI KYOUNG HYDRO ELECTRIC PROJECT UPPER DZONGU-NORTH SIKKIM**

**20<sup>TH</sup> APRIL 2017**

## **PROGRAMME**

- |             |  |
|-------------|--|
| 9.40. A.M:  | Arrival of the Public participants.  |
| 9.50. A.M:  | Arrival of the Members of the Public Hearing Panel.  |
| 10.00. A.M: | Introduction on public hearing & Welcome address by Dr. Gopal Pradhan, Principal Scientist, State Pollution Control Board- Sikkim. |
| 10.10. A.M: | Briefing on the 25 MW Rahi Kyoung Hydro Electric Project by Project In-charge.   |
| 10.30. A.M: | Comments, views, suggestions, clarifications, (Questions & Answer Session).  |
| 12.30. P.M: | Observation on the public hearing proceedings by Member Secretary, State Pollution Control Board-Sikkim.                           |
| 12.40. P.M: | Concluding Remarks on the public hearing proceeding by D.C. North, Chairman of the Public Hearing Panel.                           |
| 12.55 P.M:  | Vote of Thanks by Shri B. K. Chettri, Sr. Scientific Officer, State Pollution Control Board-Sikkim.                                |
| 1.00. P.M:  | Lunch.   |

**PUBLIC HEARING OF 25 MW RAHI KYOUNG HYDRO ELECTRIC PROJECT, UPPER  
DZONGU, NORTH SIKKIM**

**20<sup>TH</sup> APRIL 2017**

**Name of the Participants:**

<b>Sl. No.</b>	<b>Name</b>	<b>Address</b>
1.	Shri Sonam Gyatso Lepcha	Salim Pakyel
2.	Smt. Kalawati Subba	Chairperson, SPCB
3.	Shri C.S. Rao, IFS	Member Secretary, SPCB
4.	Shri Karma R. Bonpo, IAS	D.C., North
5.	Shri Bechung Lepcha	ADC, Chungthang
6.	Shri Nagendra Dhakal	Dy. Director, Fisheries (North)
7.	Shir D.B. Rai	Jt. Director, Fisheries
8.	Shri Tenzing Norbu Bhutia	DFO (T), North
9.	Shri Namgey Bhutia	R.O. (North)
10.	Smt. Ringzing Lhamu Lepcha	Salim Pakyel
11.	Smt. Pema Lhamu Lepcha	Leek, Panchayat
12.	Smt. Passangkit Lepcha	Salim Pakyel
13.	Shri Choda Lepcha	Saffo, Zilla Member
14.	Shri Nezing Lepcha	Passingdang
15.	Shri Nimtsho Lepcha	Leek
16.	Shri Phurba Lepcha	Saffo
17.	Shri Dawa Tashi Lepcha	Saffo

18.	Shri Nangsho Lepcha	Salim Pakyel
19.	Shri Sangdi Lepcha	Salim Pakyel
20.	Shri Chung Chung Lepcha	Salim Pakyel
21.	Shri Nima Tshering Lepcha	Saffo Liching
22.	Shri Sryya Lepcha	Saffo
23.	Shri Kanyong Lepcha	Saffo Liching
24.	Shri Tshering Lepcha	Salim Pakyel
25.	Shri Phurden Lepcha	Salim Pakyel
26.	Shri T. Dorjee Bhutia	SDM, Dzongu
27.	Shri Norden T. Bhutia	Dzongu (T) RO, Forest
28.	Shri Wangyal Sherpa	RO/AD, Dzongu
29.	Shri H.B. Thapa	HS, HQ, Dzongu
30.	Shri Achung Lepcha	Saffo
31.	Shri Tashi	Saffo
32.	Shri Phurza Lepcha	Saffo
33.	Shri Gyasho Lepcha	Saffo
34.	Shri Rikpa Kenzung Lepcha	B.O. Saffo
35.	Shri Andup Lepcha	Saffo
36.	Shri Badur Tshering Lepcha	Leek
37.	Shri Achung Lepcha	Singhik
38.	Smt. Lhekmit Lepcha	Singhik
39.	Smt. Lhamu Lepcha	Saffo
40.	Smt. Phursongmoo Lepcha	Saffo
41.	Smt. Chung Chung Lepcha	Saffo

42.	Smt. Tenkey Ongmu Lepcha	Saffo
43.	Smt. Yangkit	Saffo
44.	Shri Sandeep Rai	IPR Deptt.
45.	Shri Chandra Pd. Sharma	IPR Deptt.
46.	Shri Hnkup Lepcha	Saffo
47.	Shri Passing Lepcha	Saffo
48.	Shri Achuk Lepcha	Saffo
49.	Shri Icchung Lepcha	Saffo
50.	Smt. Nimkit	Saffo
51.	Smt. Ongkit Lepcha	Saffo
52.	Smt. Neema Lepcha	Salim Pakel
53.	Smt. Dorjee Ongmu Lepcha	Saffo
54.	Smt. Jyunsa	Saffo
55.	Shri Ningdup Lepcha	Noom-panang
56.	Shri Tashi Nangyd Lepcha	Noom-panang
57.	Shri Sonam Wangchuk Lepcha	-Do-
58.	Shri Norden Ongdup Lepcha	-Do-
59.	Shri Mikeong Lepcha	-do-
60.	Shri Rinchen Ongchup Lepcha	-do-
61.	Shri Chopcha	-do-
62.	Shri Lakpa Lepcha	Saffo
63.	Shri Lukit Lepcha	Saffo
64.	Smt. Sichu Lhamu Lepcha	-do-
65.	Smt. Tshesum Lhamu Lepcha	-do-

66.	Smt. Sonam Pulkit Lepcha	Salim Pakyel
67.	Smt. Nuleemit lepcha	Salim Pakyel
68.	Smt. Dorjee Ongmu Lepcha	-do-
69.	Smt. Pallu Doma Lepcha	-do-
70.	Smt. Norzee Lepcha	-do-
71.	Shri Gyanchung Lepcha	-do-
72.	Shri Wangchuk Bhutia	Dikchu
73.	Shri Acho Lepcha	Saffo
74.	Smt. Marmit Lepcha	Saffo
75.	Smt. Mayalmit Lepcha	Saffo
76.	Smt. Anu Subba	Saffo
77.	Smt. Lhakden Lepcha	-do-
78.	Shri T.T. Lepcha	-do-
79.	Shri Kalul Lepcha	-do-
80.	Shri Engkit Lepcha	-do-
81.	Shri Dil kr. Rai	20. no.
82.	Shri Nima Lepcha	Noom
83.	Shri Mepon Lepcha	Noom
84.	Shri Ratjor Lepcha	Noom
85.	Shri Thendup Dorjee	Saffo
86.	Smt. Uden Lepcha	Saffo
87.	Smt. Thinkey Lhamu Lepcha	-do-
88.	Smt. Chomit Lepcha	-do-
89.	Smt. Diki Lhamu Lepcha	-do-

90.	Shri Karma Dorjee Lepcha	-do-
91.	Shri Pema Rapgey Lepcha	-do-
92.	Shri Chigo Topgay Lepcha	-do-
93.	Shri Chung Chung Lepcha	-do-
94.	Shri Ugen Lepcha	-do-
95.	Shri Tashi Palzang Lepcha	-do-
96.	Shri Tashi Lepcha	Siame Payel
97.	Shri Layda Tshering Lepcha	Salim Pakyel
98.	Shri Tashi Tshering Lepcha	Somo Liching
99.	Shri Eimson Dadul Lepcha	Safflichung
100.	Shri Narkit lepcha	Saffo
101.	Shri Songmit Lepcha	-do-
102.	Shri Ramit Lepcha	-do-
103.	Smt. Nangzongmu Lepcha	-do-
104.	Smt. Songkit Lepcha	-do-
105.	Shri Thinlay Gyamtso	AE, Power Deptt. Dzongu
106.	Shri Ugen Tseten	B.O. Fisheries
107.	Shri B.B. Tamang	F.S. Fisheries
108.	Shri Sangdup Lepcha	Salim Pakyel
109.	Smt. Nimkit Lepcha	Saffo Liching
110.	Smt. Nimkit Lepcha	Saffo
111.	Smt. Nima Lhamu Lepcha	Saffo
112.	Shri Phur Tshering Lepcha	-do-
113.	Shri Toppan Lepcha	-do-

114.	Shri Passing topgay	-do-
115.	Shri Tempa Lepcha	Salim
116.	Shri Chuzang Lepcha	Leek
117.	Shri Kalhy Lepcha	Passingdong
118.	Shri Sonam Lepcha	Leek
119.	Shri Dorjee Lepcha	Salim
120.	Shri Namda Lepcha	Leek
121.	Smt. Choden Lepcha	Leek
122.	Shri Rinchen Dorjee Lepcha	Saffo Liching
123.	Shri Tashi Tshering Lepcha	Safo
124.	Shri Pincho Lepcha	Lingdem
125.	Shri Tek Nath Sharma	Gangtok
126.	Shri Dawa Lepcha	Saffo
127.	Shri Tshultrum G. Lepcha	Saffo
128.	Shri Topden Lepcha	Salimsa
129.	Shri Palden Lepcha	Saffo
130.	Shri Narpa Tshering Lepcha	Saffo
131.	Shri Sonam ongdup	Saffo
132.	Shri Dawa Lepcha	Saffo
133.	Shri Lhendup Lepcha	Saffo
134.	Shri Sonam Palsor Lepcha	Saffo
135.	Shri Lhakpa Tshering Lepcha	Saffo
136.	Shri Yongden Lepcha	-do-
137.	Shri Passing Lepcha	-do-



138.	Shri Sherap Pintso Lepcha	B.O. (T) Dzongu
139.	Shri Topden Lepcha	Saffo
140.	Shri Pema Ongyal Lepcha	Saffo
141.	Shri Tarzong Lepcha	Gangtok
142.	Shri Sanga Dadul Lepcha	Leek
143.	Shri Chewing Dorjee Lepcha	Leek
144.	Smt. Etyik Lepcha	Leek
145.	Shri Daldul Lepcha	Saffo
146.	Shri Tshering Tamang	saffo
147.	Dr. Gopal Pradhan	Pr. Scientist, SPCB
148.	Shri B.K. Chettri	Sr. Sc. Officer, SPCB
149.	Shri Ranjan Rai, AEE	SPCB, Gangtok
150.	Smt. Kunzang Z. Bhutia, ASO	SPCB, Gangtok
151.	Shri Ramesh Chettri, JSA	SPCB, Gangtok
152.	Shri Krishan Pd. Sharma	SPCB, Gangtok
153.	Smt. Gayatri Sharma	SPCB-Gangtok
154.	Shri Yogesh Subba	SPCB, Gangtok
155.	Shri Kumar Gurung	SPCB, Gangtok
156.	Shri D.K. Rai	SPCB, Gangtok
157.	Shri Ramesh Rai	SPCB, Gangtok
158.	Shree Nima Tamang	SPCB, Gangtok
159.	Shree P.M. Nanda, COO, SEPL	Gangtok
160.	Shri Karma C. Lepcha, DGM, SEPL	Gangtok
161.	Shri D.J. Pani, GM, SEPL	Gangtok

162.	Shri R. K. Gupta, AGM, SEPL	Gangtok
163.	Shri Gopi Krushna. N. AGM (Env.) SEPL	Gangtok
164.	Shri Sanjay Kr. Yadav, Consultant (RS, Env)	Gangtok
165.	Shri Durga Shree Niwas, SEPL	Gangtok
166.	Shri Krishna Pradhan, Sr. Manager, SEPL	Gangtok
167.	Shri Sumit Sharma, Asstt. Manager, SEPL	Gangtok
168.	Ms. Dik Maya Sharma, SEPL	Gangtok
169.	Shri Rakesh Pandey	Passingdang
170.	Shri S. Upadaya	Passingdang
171.	Shri Kaushik Roy	Passingdang



Fig. 1. Display of banner for information of the public.



Fig. 2. A view of youth from the public desk with questions.





Fig. 3. Officials of the Department of Fisheries, Land Revenue, Forest, Env. & W/L Management and the State Pollution Control Board for providing necessary clarifications.



Fig. 4. Project Consultation for EIA, EMP giving brief about the project.



Fig.5. A view of public participation during question and answer session.



Fig. 6. A view of live video recording of the public hearing.





Fig.7. A view of lady questioning from the public desk.



Fig. 8. A view of senior citizen asking the question from the public desk.



Fig. 9. A view of Head Lama of Saffo Gumpa addressing from public desk.



Fig. 10. A view of project In-charge giving clarification during question & answer session.





Fig.11. A view of public participation during the public hearing.



Fig. 12. A view of member of public hearing panel.





Fig. 13. Shri C.S. Rao, IFS, member of public hearing panel with his observation on the public hearing proceedings.



Fig. 14. Chairman of Public Hearing Panel Shri Karma R. Bonpo, IAS, DC, North with concluding remarks.