



एसजेवीएन लिमिटेड

मिनी-रत्न शिड्यूल 'A' पीएसयू
निगमित पर्यावरण विभाग
ISO 9001:2015 Certified

कार्यालय: कार्यकारी निदेशक,
निगमित पर्यावरण विभाग,
शक्ति सदन, शानान,
जिला शिमला, हिमाचल प्रदेश - 171006
टेलीफोन न.: 0177-2660180
ईमेल: sjvn.ced@sjvn.nic.in
sjvnenv@gmail.com

संख्या: SJVN/CHQ/ENV/F-31/ 107

दिनांक: 24/11/2021

सेवा में,
अतिरिक्त प्रधान मुख्य वन संरक्षक (सी),
क्षेत्रीय कार्यालय (उत्तर मध्य क्षेत्र), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,
25, सुभाष रोड, देहरादून-248001,
Email: moef.ddn@gmail.com

Sub: Six Monthly Monitoring Report on Compliance to Environmental Aspects (For period April, 2021 – September, 2021) i.r.o Dhaulasidh HEP (66 MW), Himachal Pradesh.

Ref: EC letter No. J-12011/15/2010-IA.I, February 21, 2013 for Dhaulasidh HEP (66 MW)

Sir,

Kind reference is invited to above referred endorsement vide which Dhaulasidh Hydroelectric Project (66 MW) of SJVN in District Hamirpur and Kangra, (Himachal Pradesh) is granted Environment Clearance. As per EIA notification 2006, submission of six monthly compliance report is required as to be submitted. Further, it is desired vide notification dated 26.11.2018 to submit half yearly compliance reports in soft copies only.

Therefore, Six Monthly Monitoring Report on compliance to Environmental Aspects (for the period ending September 2021) is submitted for your kind information, please.

संलग्नक: यथोपरि

सधन्यवाद,

भवदीय,
एसजेवीएन लिमिटेड के लिए,

(कार्यकारी निदेशक)

प्रतिलिपि (केवल ईमेल के माध्यम से):

- सदस्य सचिव, हिमाचल प्रदेश प्रदूषण नियंत्रण बोर्ड, हिम परिवेश, बी.सी.अस, नया शिमला-171006, Email: [mspcb-hp@nic.in](mailto:mspb-hp@nic.in)
- उप महानिदेशक वन (सी), पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय (NCZ), 25, सुभाष रोड, देहरादून - 248001, ई-मेल: moef.ddn@gov.in

CIN L40101HP1988GOI008409 website: www.sjvn.nic.in

पंजीकृत एवं कॉपीराइट कार्यालय: एस जे वी एन लिमिटेड, शक्ति सदन, सनान, शिमला, हिमाचल प्रदेश-171006

**Six Monthly Monitoring Report on Compliance to Environmental Aspects
(For Period Ending September, 2021)**

Name of Project	Dhulasidh (66 MW)
Type of the Project	Hydroelectric
Location	District Hamirpur and Distt Kangra, Himachal Pradesh
Clearance letter no.	J-12011/15/2010-IA-I dated 21/03/2013.
Period of Compliance:	01/04/2021 to 30/09/ 2021.
Current status of project:	Project is in Construction stage.
Contact Address	
(a) Concerned Project Head	Head of project, H.N.-21, Ward No. 1, Heera Nagar, District Hamirpur, HP, PIN 177001 Contact No. 0972-223237
(b) Concerned Environment Division (Corporate)	Head (Environment), SJVN Corporate Headquarters, Shanan, Shimla, HP, PIN 171006 Contact No. 0177-2660180

B)	Conditions imposed by the Ministry of Environment & Forests, GOI while granting Environment Clearance vide letter no. J-12011/15/2010-IA-I dated 21/02/2013	
Sl. No	Conditions of Environment Clearance	Status as on 30/09/2021
1	PART-A: SPECIFIC CONDITIONS	
i	The Catchment Area Treatment (CAT) Plan as proposed in the EMP report (Chapter-2 in EMP dated May, 2012) shall be strictly implemented in consultation with Himachal Pradesh State Forest Department. Major works shall be completed before impounding of reservoir. The financial allocation of Rs. 10.947 crores for CAT Pan implementation shall be fully utilized and not to be diverted for any other purpose. As per plan, the area of CAT is 114.74 sq. km.	➤ The Revised CAT plan was approved on date 05/12/2018 for Rs. 19.77 Cr. ➤ Amount of Rs. 19.77 Crore had been deposited in Adhoc CAMPA on 09.10.2019 (copy enclosed as Annexure - I) Shall be ensured.
ii	The details of land holding of project affected persons whose land is being acquired shall be submitted to this Ministry including Regional Office. The R&R benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2007 or as per the State Rehabilitation and Resettlement Policy, whichever is more beneficial to project affected persons (PAFs). Adequate publicity of the compensation package of NRRP 2007 shall be given in the affected villages. All R&R issues shall be completed before commissioning of the project.	The private land required for project has been purchased by direct negotiation with land owners through a committee constituted by the State Government.
iii	A Monitoring Committee for R&R shall be constituted which must include representatives of project affected persons including from SC/ST category and a woman beneficiary.	Shall be ensured.

iv	All the commitments made during the public hearing by the developer shall be fulfilled.	-do-
v	Dumping and consolidation/ compaction of muck shall be carried out only in the designated muck dumping sites as submitted in the EIA/EMP Report. As per the proposed muck disposal plan, out of the 0.882 Mm ³ muck to be generated 0.118 Mm ³ will be utilized for construction purpose and remaining 0.764 Mm ³ will be dumped at the 2 designated disposal sites in an allocated area of 4.30 ha.	Due to change in location, area and nos. of dumping site (i.e. 03 nos. instead of 02 nos.), the amendment in Environment Clearance has been issued by MoEF&CC vide letter no. J-12011/15/2010-IA.I on 19.05.2021 (copy enclosed as Annexure - II) Being ensured.
vi	A minimum environmental flow of 6.7 cumec i.e. equivalent to 20% of the minimum discharge available during 4 consecutive leanest months of the 90% dependable year shall have to be released as environmental flow for sustenance of aquatic life and downstream use. And also 6.7 cumec shall have to be maintained during November-May.	The minimum environmental flow as specified shall be maintained during operation stage of the project. Shall be ensured.
vii	Continuous monitoring system for the flow measurement shall be installed and data be displaced at appropriate site for information of civil society and stake holders. Six monthly results shall be submitted to the Regional Office of the Ministry and SPCB.	Shall be maintained during operation stage of the project.
viii	Real-time telemetry and data acquisition system including all weather hydro meteorological station shall be installed for in-flow monitoring and advance flood warning. Advance flood warning and advance communication systems shall be installed in consultation with the downstream Authorities.	Shall be ensured.
ix	The fishery conservation & management plan as proposed in the EMP shall be implemented in consultation with the Fisheries Department, Government of Himachal Pradesh. As proposed, the stocking programme in the reservoir in about 15.76 ha and to stock the snow trout as well as 10 km upstream/ downstream of river shall be taken-up and implemented with the help of State Fisheries Department. Establishment of hatchery should also taken-up with the help of Forest Department. Allocated amount of Rs.50 lacs for this purpose shall be fully utilized and not to be diverted for any other purpose/activity.	-do-
x	As proposed in the EMP, the Compensatory Afforestation Programme in 115.4 ha shall be taken-up in consultation with State Forest Department. In addition to this NPV, Biodiversity Conservation and Management Plan and development of a herbal nursery near Sanotu village in an area of 0.50 ha shall be taken-up strictly. The allocated grant of Rs.5.589 crores for this purpose shall be fully utilized and not to be diverted for any other purpose. For compensatory Afforestation programme preference shall be given to native species.	As part of diversion of forest land, compensatory afforestation over 115.40 Ha of forest land had been proposed. An amount of Rs. 7.05 crore had been deposited to Forest department on dated 09.10.2019 against the latest NPV and CA including

		contingencies (copy enclosed as Annexure - I). Shall be ensured.
xi	The Biodiversity Conservation and Management Plan shall be taken-up as outlined in the EIA/EMP report and to be implemented in consultation with the State Forest Department. A report of implementation shall be included in the six-monthly progress and compliance report to be submitted to the Ministry including its Regional Office.	Shall be ensured.
xii	Greenbelt development along the reservoir as proposed in total 10 ha of land with 13 plant species shall be undertaken. Total budget of Rs.10 lacs has been allocated including restoration shall be fully utilized not to be diverted for any other purpose.	-do-
xiii	Equipments likely to generate high noise levels shall have to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000 and as amended in 2010 under the Environment Protection Act (EPA), 1986. For this, necessary insulators etc may be installed to contain noise level.	-do-
xiv	Any other clearance from any other organization/department, if required shall be obtained by the project proponent before commencement of the project.	Condition is being complied.
2	PART-B: GENERAL CONDITIONS	
i	Adequate arrangement for providing free fuel like kerosene/wood/LPG shall be made at project site for the labour engaged in the construction work so that indiscriminate felling of trees is prevented. The project proponent shall ensure this.	To avoid indiscriminate felling of trees, free fuel facility is being provided by the contractor to the labour force, engaged in construction activities of the project.
ii	Medical facilities as well as recreational facilities shall also be provided to the labourers.	First aid facility is available at project site.
iii	All the labourers to be engaged for construction works shall be thoroughly examined by health personnel and adequately treated before issuing them work permit.	Being complied
iv	No fugitive dust emissions should be observed at the construction sites. Water sprinkling arrangements shall be made to suppress the fugitive emissions.	Water sprinkling is being undertaken at project site to suppress the fugitive emission.
v	Potable drinking water and proper sanitation facilities should be provided for the labour force and the local area people.	Being complied
vi	Restoration of construction area including dumping site of excavated materials shall be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Restoration of construction area and dumping site shall be done after completion of the project components and in synchronization with construction activities.
vii	Environmental parameters shall be monitored regularly and six-monthly reports shall be submitted to the Regional	Shall be ensured.

	Office of the Ministry and State Pollution Control Board for review.	
viii	The project proponent shall also submit six monthly compliance reports of the stipulated EC conditions (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF & CC / State Pollution Control Board. Both monitoring report and compliance report shall be uploaded on the web-site of the project proponent.	Six monthly compliance reports are being submitted regularly to MoEF&CC regional office (North – central zone Dehradun and HP Pollution Control Board. Last Six Monthly Report (1st Oct 2020 to 31st March 2021) submitted on 28.05.2021.
5	The project proponent shall provide full cooperation and all required documents, data and access to the officials of regional office of MOEF & CC who would be monitoring the implementation of environment safeguards	Shall be ensured.
6	The responsibility of implementation of environmental safeguards rests fully with the M/S SJVN Ltd and Government of Himachal Pradesh.	Noted
7	Besides the above stated conditions, the project proponent and Government of Himachal Pradesh shall also implement all other environmental safeguards, as proposed in the EIA/EMP report and other reports from time to time. The Government of Himachal Pradesh may also like to monitor implementation of EMP at regular intervals.	Agreed
8	The implementation of Environmental Management Plan shall be strictly adhered to and a sum of Rs.34.15 crores, the budgetary provisions for implementation of EMP shall be fully utilized and not to be diverted for any other purpose. The project proponent may critically monitor & review project to ensure completion of scheduled. Project management tools like PERT/CPM may be used to monitoring progress.	-do-
9	This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work of the project.	Noted
10	Any change in the scope of the project shall be intimated to the Ministry and fresh issue of this letter for commencement of construction work of the project.	Agreed
11	The Ministry reserves the right to review this clearance order and add additional safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.	Noted
12	A multi-disciplinary Committee (MDC) for monitoring the implementation of environmental safe guards during construction shall be constituted by the project proponent (PP) in consultation with the Ministry as early as possible. A panel may be proposed by the PP and submitted to Ministry. The project proponent shall organize six monthly	Shall be ensured.

	meetings of the Committee and submit the monitoring report to the Ministry.	
13	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, urban local body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Needful done
14	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project location, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at website of the Ministry of Environment and Forests at http://www.envior.nic.in .	The advertisement was published in local Punjab Kesari and Apka Faisla News papers on dated 16.11.2013 and 22.11.2013 respectively
15	After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency to be decided in consultation with the Ministry.	Shall be ensured.
16	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days from the date of issue, as prescribed under Section 10 of the National Green Tribunal Act, 2010.	Noted
3)	Conditions imposed by the Ministry of Environment, Forest and Climate Change, GOI while granting Amendment in Environment Clearance vide letter no. J-12011/15/2010-IA.I dated 19/05/2021	
S. No.	Conditions Imposed	Compliance Status
1	Issues raised during public hearing and accordingly promised by PP should be implemented in stipulated time frame.	Shall be ensured.
2	Necessary control measures such as water sprinkling arrangements at all the construction and muck disposal sites and construction of paved roads leading to muck disposal sites shall be made to arrest fugitive dust and proper institutional mechanism be prepared for supervising this activity during operation & maintenance stage of the project.	Water sprinkling is being done at all construction sites to arrest fugitive dust.
3	Stabilization of muck disposal sites using biological and engineering measures shall be taken up to ensure that muck does not roll down the slopes and shall be disposed safely and that it does not pollute the natural streams and water bodies in surrounding area. The engineering measures for the muck disposal arrangements be evolved after carrying out required slope stability analysis.	Condition is being complied
4	Slope height of disposed muck should be maintained at 25 degrees for stabilization of muck.	Condition is being complied

5	Necessary consent shall be obtained from District Administration due to proposed change in private land use for dumping of muck.	Shall be ensured.
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Annexure-I

एसजेवीएन लिमिटेड
SJVN LIMITED

भारत सरकार एवं हिमाचल सरकार का संक्युत उपक्रम)
(A joint venture of Govt. of India and Govt. of HP)

धौलासिद्ध जल विद्युत परियोजना

Dhaulta-Sidh Hydro Electric Project

हाउस नंबर-113 वार्ड नंबर-1 कृष्णा नगर, हमीरपुर (हि० प्र०)-177001
H.No.-113, Ward No.-1, Krishna Nagar, Hamirpur (HP) – 177001
CIN – L40101HP1988GOI008409

Annexure- A

Tele: 01972-222635
Fax : 01972-223235
E-Mail: hop.dshep@gmail.com
Web : www.sjvn.nic.in

NO: SJVN/DSHEP/DGM(C)/Forest/2019 - 77

Dated: 10.10.2019

To

DFO,
Forest Division, Hamirpur,
Himachal Pradesh.

Sub: Diversion of 57.7365 ha of Forest Land in favour of M/s SJVN (A joint Venture of Govt of India and Govt of HP) for the construction of 66.00 MW Dhaultasidh HEP, within the jurisdiction of Palampur, Hamirpur and Dehra forest divisions, Distt Kangra and Hamirpur, Himachal Pradesh - Deposit of Amount of NPV, CA, CAT Plan etc.

Sir,

With reference to your demand letter no.8290 dated 04/10/2019 the net total amount of Rs 308237538/- has been deposited on 09/10/2019 as per detail given below.

Sr. No.	Cost For	Hamirpur Division (Rs)	Dehra Division (Rs)	Palampur Division (Rs)	Total (Rs)	Remarks/ Mode of payment
1	Compensatory Afforestation including maintenance of Plantation Area	7321490	10537024	2578200	20436714	Amount deposited in Himachal Pradesh CAMPA account through e-challan (PUNBR5201910091 9596186)dated 09/10/2019 amounting to Rs 268252161/- only.
2	NPV	15944689	24825227	8315138	49085054	
3	Contingencies	366080	526851	128910	1021841	
4	CAT Plan				197708552	
	Total (A)	23632259	35889102	11022248	268252161	
4	Cost of trees	20017779	11942670	4448494	36408943	Through DD No. 355165, 355166 & 355167 dated 09/10/19 amounting to Rs21299049/-, Rs 4899679/- & 13786649/- in favor of DFO Hamirpur, Palampur & Dehra respectively
5	Departmental Charges	1281270	1843979	451185	3576434	
	Total (B)	21299049	13786649	4899679	39985377	
	Grand Total	44931308	49675751	15921927	308237538	



एसजेवीएन लिमिटेड
SJVN LIMITED

भारत सरकार एवं हिमाचल सरकार का संक्युत उपक्रम)
(A joint venture of Govt. of India and Govt. of HP)
धौलासिद्ध जल विद्युत परियोजना

Dhaulta-Sidh Hydro Electric Project

हाउस नंबर-113 वाई नंबर-1 कृष्णा नगर, हमीरपुर (हि० प्र०)-177001
H.No.-113, Ward No.-1, Krishna Nagar, Hamirpur (HP) – 177001
CIN – L40101HP1988GOI008409

Tele: 01972-222635

Fax : 01972-223235

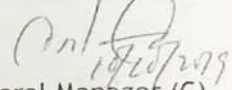
E-Mail: hop.dshep@gmail.com

Web : www.sjvn.nic.in

It is requested that the compliance report in respect of Dhaultasidh HEP may please be submitted to Nodal Officer FCA Shimla for further submission to MoEF&CC for Stage-II forest clearance.

Thanking you,

Yours faithfully,


Dy. General Manager (C)
DSHEP, Hamirpur

CC:

1. CF, Forest Circle, Hamirpur for information please
2. HOP, DSHEP, Hamirpur for kind information please

o/c

NO: SJVN/DSHEP/DGM(C)/Forest/2019 -

Dated:



F. No. J-12011/15/2010-IA.I
Government of India
Ministry of Environment, Forests & Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan,
Aliganj, Jor Bagh Road,
New Delhi - 110 003

Dated: 19th May, 2021

To,

The Chief General Manager
SJVN Corporate Office,
Shakti Sadan, Shanan,
Shimla - 171 006 (Himachal Pradesh)

Sub: Dhaulasidh Hydro Electric Power Plant of 66 MW as Run of River scheme in an area of 338.2 ha by M/s SJVN Ltd. in village Sanotu District Hamirpur and Kangra (Himachal Pradesh) - Amendment in Environmental Clearance (EC) - reg.

Sir,

This has reference to your online Proposal No. IA/HP/RIV/27534/2013 dated 4th March, 2021 on the above-mentioned subject.

2. The Ministry of Environment, Forest and Climate Change has considered the proposal of amendment of EC to Dhaulasidh Hydro Electric Power Plant of 66 MW as Run of River scheme in an area of 338.2 ha by M/s SJVN Ltd. in village Sanotu District Hamirpur and Kangra (Himachal Pradesh).

3. Project Proponent has proposed to revise details of muck disposal and Revised Cost for Implementation of Muck Management Plan. Accordingly, Amendment in EC Condition Part A: Specific condition no. (V) and Corrigendum Condition No. 2 for change in mucking dumping sites from 2 to 3 has been sought.

4. Earlier, Environment Clearance has two number of muck dumping sites (unutilized) generated from various components during construction in an area of 4.30 ha land in the project area. Dumping site -1 was in forest land of 1.20ha and Dumping Site-2 (DS-2) in private land at Village Busal, Tehsil Nadaun, Hamirpur of 3.10 ha. Since the owners of DS-2 (3.10ha private land) are refusing to lease their land for dumping and two new buildings have also been constructed in the area out of which one building has been constructed at the entry point of dumping site. Hence at present there is no access to Dumping Site-2. Therefore, two new patches of private land having an area 2.30ha have been identified for safe and scientific disposal of muck as per MoEF&CC guidelines. For these two dumping sites rent agreement has been signed.

5. Further, Quantity of muck to be disposed at different muck disposal sites with coordinates of sites as below:

[Handwritten signature]

Dumping Site	Location	Co-Ordinates	Original Proposed Detail		Revised Detail	
			Capacity of Dumping Site (M ³)	Volume of Muck to be Disposed (M ³)	Capacity of Dumping Site (M ³)	Volume of Muck to be Disposed (M ³)
Dumping Area-1 (DS-1)	On Project approach road about 2.50KM from Dam Site	(31°47'43.67"N 76°27'0.51"E)	256300	189850	256300	189850
Dumping Area-2 (DS-2)	On Jihan-Sujanpur road.	(31°47'40.85"N 76°27'08.71"E)	620532	574150	564456	514150
Dumping Area-3 (DS-3)	On Link road about 400 Mtr from Nadaun Sujanpur road, near DSHEP proposed colony	(31°47'08.54"N 76°26'54.48"E)	-	-	79763	60000
			876832	764000	900519	764000

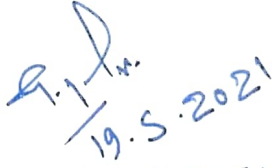
6. Earlier provision of Rs. 8.8 million was made towards the muck disposal plan as per the provisions and revised cost for muck disposal plan is 8.95 million. Muck Management Plan Activities proposed:

- Civil works (construction of retaining walls, wire-crate walls etc.)
- Dumping of muck as per MoEF&CC guidelines.
- Levelling of the area, terracing and implementation of various engineering control measures e.g., wire-crate wall, masonry wall, catch water drain.
- Spreading of soil and laying of Geo-Erosion Control Blanket.
- Planting of native tree and shrub species.
- Financial Allocation: 89.50 lakhs.

7. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for River Valley and Hydro Electric Power Projects (RV&HEP) in its 9th meeting held on 25th March, 2021 through video conferencing wherein the Committee recommended the proposal for amendment of Environment Clearance. Based on the proposal submitted by the project proponent and recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to **amendment in Environment Clearance** dated 21st February, 2013 read with corrigendum issued on 21st October, 2013 for change in muck dumping sites as detailed under para 5 of this letter to Dhaulasidh Hydro Electric Power Plant of 66 MW as Run of River scheme in an area of 338.2 ha by M/s SJVN Ltd. in village Sanotu District Hamirpur and Kangra (Himachal Pradesh), as per EIA Notification, 2006. All the conditions of EC dated 21st February, 2013 shall remain applicable along with the following conditions mentioned below:


[Handwritten signature]

- (i) Issues raised during public hearing and accordingly promised by PP should be implemented in stipulated time frame.
 - (ii) Necessary control measures such as water sprinkling arrangements at all the construction and muck disposal sites and construction of paved roads leading to muck disposal sites shall be made to arrest fugitive dust and proper institutional mechanism be prepared for supervising this activity during operation & maintenance stage of the project.
 - (iii) Stabilization of muck disposal sites using biological and engineering measures shall be taken up to ensure that muck does not roll down the slopes and shall be disposed safely and that it does not pollute the natural streams and water bodies in surrounding area. The engineering measures for the muck disposal arrangements be evolved after carrying out required slope stability analysis.
 - (iv) Slope height of disposed muck should be maintained at 25 degrees for stabilization of muck.
 - (v) Necessary consent shall be obtained from District Administration due to proposed change in private land use for dumping of muck.
8. This issues with the approval of the Competent Authority.


(Yogendra Pal Singh)
Scientist 'E'

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti, Bhawan, Rafi Marg, New Delhi - 110 001.
2. The Secretary, Ministry of Jal Shakti, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110 003.
3. The Addl. PCCF(Central), Regional Office, Ministry of Environment, Forest & Climate Change, Bays No 24-25, Sector - 31A Dakshin Marg, Chandigarh - 162 022.
4. The Chairman, Himachal Pradesh Pollution Control Board, Phase-III, Him Parivesh, New Shimla - 171 009, Himachal Pradesh.
5. Guard File/PARIVESH Portal


(Yogendra Pal Singh)
Scientist 'E'