



एसजेवीएन लिमिटेड

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

कार्यालय:

मुख्य महाप्रबंधक,
निगमित पर्यावरण विभाग,
शक्ति सदन, शनान,
जिला शिमला, हिमाचल प्रदेश -171006
टेलीफोन न.: 0177-2660180
ईमेल: sjvnenv@gmail.com

संख्या: SJVN/CHQ/ENV/27/ 29

दिनांक: 26/05/2021

सेवा में,

अतिरिक्त प्रधान मुख्य वन संरक्षक (सी),
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,
क्षेत्रीय कार्यालय (NCZ), 25, सुभाष रोड,
देहरादून - 248001,
ई-मेल: moef.ddn@gmail.com

Sub: Six Monthly Monitoring Report on Compliance to Environmental Aspects (For period October, 2020 – March, 2021) i.r.o Naitwar Mori HPS (60 MW), Uttarakhand.

Ref: EC letter No. J-12011/16/2010/IA.I, June 16, 2016 (Issued by Ministry of Environment, Forest & Climate Change- GoI)

Sir,

Kind reference is invited to above referred endorsement vide which Naitwar Mori Hydroelectric Project (60 MW) of SJVN in Uttarkashi District (Uttarakhand) is granted Environment Clearance. Submission of six monthly compliance report is required by Environment Clearance. 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 March 2021) is submitted for your kind information, please.

संलग्नक: यथोपरि।

सधन्यवाद,

भवदीय,

एसजेवीएन लिमिटेड के लिए,

(मुख्य महाप्रबंधक)

प्रतिलिपि (केवल ईमेल के माध्यम से):

- उप महानिदेशक वन (सी), पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय (NCZ), 25, सुभाष रोड, देहरादून - 248001, ई-मेल: moef.ddn@gov.in
- प्रभारी, केंद्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी), जोनल कार्यालय (उत्तर), पीआईसीयूपी भवन, विभूति खंड, गोमती नगर, लखनऊ - 226010 (यू.पी.). mscb.cpcb@nic.in, cpcb.lucknow@gmail.com
- सदस्य सचिव, उत्तराखंड पर्यावरण संरक्षण और प्रदूषण नियंत्रण बोर्ड (UEPPCB), 29/20, नेमी रोड, देहरादून - 248001 (उत्तराखंड). spsubudhi@gmail.com, msukpcb@gmail.com

CIN L40101HP1988GOI008409 website: www.sjvn.nic.in

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

Annexure - I

कार्यालय प्रभागीय वनाधिकारी, टौंस वन प्रभाग, पुरोला (उत्तरकाशी)

Email- dfo_tons@yahoo.co.in Fax:- 01373- 223328

पत्रांक 2307 / 3-2 दिनांक, पुरोला, उत्तरकाशी 29/4/ 2021

सेवामें,

महाप्रबन्धक, (परियोजना प्रमुख)
नैटवाड-मोरी जल विद्युत परियोजना,
मोरी।।

विषय:-

नैटवाड-मोरी जल विद्युत परियोजना के अन्तर्गत विभिन्न कार्यों हेतु अवमुक्त धनराशि के सापेक्ष व्यय की प्रगति।

महोदय,

इस वन प्रभाग को नैटवाड-मोरी जल विद्युत परियोजना के अन्तर्गत विभिन्न कार्यों हेतु अवमुक्त धनराशि के सापेक्ष माह मार्च 2021 तक व्यय का विवरण निम्न प्रकार है।

क्र० सं०	कार्य का विवरण	माह मार्च 2021 तक कुल अवमुक्त धनराशि (लाख में)	माह मार्च 2021 तक कुल व्यय धनराशि (लाख में)	अभ्युक्ति
1	क्षतिपूरक वृक्षारोपण (80.00 है०)	67.74	67.74	अग्रिम मृदा कार्य, वृक्षारोपण कार्य तथा वर्ष 2020-21 में प्रथम वर्ष अनुत्क्षण कार्य किया गया है।
2	कैंट प्लान (डी०पी०आर० में प्रस्तावित कार्य)	140.68	140.68	वर्ष 2019-20 व वर्ष 2020-21 में अवमुक्त धनराशि के सापेक्ष व्यय की जा चुकी है।
3	जैव विविधता (औषधीय पौधों का रोपण तथा विभिन्न जैव विविधता सम्बन्धी कार्य प्राक्कलनानुसार)	43.00	22.38	अवशेष धनराशि का नियमानुसार व्यय किया जायेगा
4	देवता रेंज के अन्तर्गत खनन क्षेत्र के आस-पास वृक्षारोपण 2000 पौध रोपित की गयी	1.89800	1.89800	सम्पूर्ण व्यय की जा चुकी है।

भवनीय

(सुबोध कुमार काला)

प्रभागीय वनाधिकारी,

टौंस वन प्रभाग, पुरोला।

Annexure - III



प्रदूषण नियन्त्रण अनुसंधान संस्थान
भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखण्ड) -249403

POLLUTION CONTROL RESEARCH INSTITUTE

(A Govt. of India - UNDP / UNIDO Project)

BHARAT HEAVY ELECTRICALS LIMITED

RANIPUR, HARIDWAR (U.K.) - 249 403

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultant by NABET, QCI)

TEST REPORT

Lab Reference No: TL201051 **Date:** 05.05.2021
Indentor : M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori,
Distt. Uttarkashi, (Uttarakhand) - 249128
Customer's Ref. No.: SJVN/NMHEP/LOA/Envr./2021-22
Work Order No.: 20-0179-O-691
Sample Collected by: PCRI Staff **Collection Date:** 27.03.2021
Sample/Job: Water Sample from River Tons Upstream to Barrage

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS*
Ammonical Nitrogen (As N)	mg/L	ND	50
Arsenic (as As)	mg/L	ND	0.2
BOD ₃ at 27°C	mg/L	ND	30
Cadmium (as Cd)	mg/L	ND	2.0
Chromium Hexavalent (as Cr ⁺⁶)	mg/L	ND	0.1
Chromium Total (as Cr)	mg/L	ND	2.0
COD	mg/L	ND	250
Colour	Hazen	10	-
Copper (as Cu)	mg/L	ND	3.0
Cyanide (as CN)	mg/L	ND	0.2
Dissolved Phosphates (as P)	mg/L	2.19	5.0
Fluoride (as F)	mg/L	0.12	2.0
Free Ammonia (as NH ₃)	mg/L	ND	5.0
Iron (as Fe)	mg/L	0.04	3.0
Lead (as Pb)	mg/L	ND	0.1
Manganese (as Mn)	mg/L	ND	2.0
Mercury (as Hg)	mg/L	ND	0.01
Nickel (as Ni)	mg/L	ND	3.0
Nitrate (as NO ₃)	mg/L	1.51	10
Odour	-	Agreeable	-
Oil & Grease	mg/L	ND	10

Contd..2

Amshafg
27/5/21

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(3) Samples will be disposed off after one month from the date of issue of Test Certificate.



PCRI/051

प्रदूषण नियन्त्रण अनुसंधान संस्थान
भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखण्ड) -249403
POLLUTION CONTROL RESEARCH INSTITUTE

(A Govt. of India - UNDP / UNIDO Project)

BHARAT HEAVY ELECTRICALS LIMITED**RANIPUR, HARIDWAR (U.K.) - 249 403**

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultant by NABET, QCI)

TEST REPORT

-Page 2-

Lab Reference No: TL201051

Date: 05.05.2021

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS*
pH	-	8.8	5.5 - 9.0
Phenols (as C ₆ H ₅ OH)	mg/L	ND	1.0
Selenium (as Se)	mg/L	ND	0.05
Sulphide (as S)	mg/L	ND	2.0
Temperature	°C	17.1	Shall not exceed 5°C above the receiving water temperature
Total Dissolved Solids	mg/L	120	-
Total Kjeldahl Nitrogen (as N)	mg/L	ND	100
Total Residual Chlorine	mg/L	ND	1.0
Total Suspended Solids	mg/L	34	100
Vanadium (as V)	mg/L	ND	0.2
Zinc (as Zn)	mg/L	ND	5.0

ND - Not Detectable

***(SCHEDULE VI OF EPA, 1993) FOR DISCHARGE INTO INLAND SURFACE WATER**

S. Bhatnagar
7/5/21
(Dr. S. Bhatnagar)

Sr. Dy. General Manager (PCRI)

डा. एस. भटनागर/ Dr. S. Bhatnagar
वरि. उप महाप्रबन्धक/ Sr. Dy. General Manager
Pollution Control Research Institute
प्रदूषण नियन्त्रण अनुसंधान संस्थान
BHEL, Ranipur, Haridwar

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PCRI/051

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POLLUTION CONTROL RESEARCH INSTITUTE

(A Govt. of India - UNDP / UNIDO Project)

BHARAT HEAVY ELECTRICALS LIMITED**RANIPUR, HARIDWAR (U.K.) - 249 403**

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultant by NABET, QCI)

Lab Reference No:

TEST REPORT

TL201052

Date: 05.05.2021

Indenter :

M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori,
Distt. Uttarkashi, (Uttarakhand) - 249128

Customer's Ref. No.:

SJVN/NMHEP/LOA/Env./2021-22

Work Order No.:

20-0179-O-691

Sample Collected by: **PCRI Staff**

Collection Date: 27.03.2021

Sample/Job:

Water Sample from River Tons Downstream to Barrage after
Chibara Gad

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS*
Ammonical Nitrogen (As N)	mg/L	ND	50
Arsenic (as As)	mg/L	ND	0.2
BOD ₃ at 27°C	mg/L	ND	30
Cadmium (as Cd)	mg/L	ND	2.0
Chromium Hexavalent (as Cr ⁺⁶)	mg/L	ND	0.1
Chromium Total (as Cr)	mg/L	ND	2.0
COD	mg/L	ND	250
Colour	Hazen	12	-
Copper (as Cu)	mg/L	ND	3.0
Cyanide (as CN)	mg/L	ND	0.2
Dissolved Phosphates (as P)	mg/L	2.30	5.0
Fluoride (as F)	mg/L	0.15	2.0
Free Ammonia (as NH ₃)	mg/L	ND	5.0
Iron (as Fe)	mg/L	0.04	3.0
Lead (as Pb)	mg/L	ND	0.1
Manganese (as Mn)	mg/L	ND	2.0
Mercury (as Hg)	mg/L	ND	0.01
Nickel (as Ni)	mg/L	ND	3.0
Nitrate (as NO ₃)	mg/L	1.65	10
Odour	-	Agreeable	-
Oil & Grease	mg/L	ND	10

Contd..2

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PCRI/051

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भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखण्ड) - 249403
POLLUTION CONTROL RESEARCH INSTITUTE

(A Govt. of India - UNDP / UNIDO Project)

BHARAT HEAVY ELECTRICALS LIMITED

RANIPUR, HARIDWAR (U.K.) - 249 403

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultant by NABET, QCI)

TEST REPORT
-Page 2-

Lab Reference No: TL201052

Date: 05.05.2021

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS*
pH	-	8.4	5.5 - 9.0
Phenols (as C ₆ H ₅ OH)	mg/L	ND	1.0
Selenium (as Se)	mg/L	ND	0.05
Sulphide (as S)	mg/L	ND	2.0
Temperature	°C	17.2	Shall not exceed 5°C above the receiving water temperature
Total Dissolved Solids	mg/L	126	-
Total Kjeldahl Nitrogen (as N)	mg/L	ND	100
Total Residual Chlorine	mg/L	ND	1.0
Total Suspended Solids	mg/L	38	100
Vanadium (as V)	mg/L	ND	0.2
Zinc (as Zn)	mg/L	ND	5.0

ND - Not Detectable

*(SCHEDULE VI OF EPA, 1993) FOR DISCHARGE INTO INLAND SURFACE WATER

S. Bhatnagar
7/5/21
(Dr. S. Bhatnagar)

Sr. Dy. General Manager (PCRI)

डा. एस. भटनागर/ Dr. S. Bhatnagar
वरि. उप महसुब/ Sr. Dy. General Manager
Pollution Control Research Institute
प्रदूषण नियन्त्रण अनुसंधान संस्थान
EHEL, Ranipur, Haridwar

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PCRI/051

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भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखण्ड) -249403
POLLUTION CONTROL RESEARCH INSTITUTE

(A Govt. of India - UNDP / UNIDO Project)

BHARAT HEAVY ELECTRICALS LIMITED**RANIPUR, HARIDWAR (U.K.) - 249 403**

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultant by NABET, QCI)

Lab Reference No: TEST REPORT
TL201053 **Date:** 05.05.2021

Indentor : M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori,
Distt. Uttarkashi, (Uttarakhand) - 249128

Customer's Ref. No.: SJVN/NMHEP/LOA/Env./2021-22

Work Order No.: 20-0179-O-691

Sample Collected by: PCRI Staff **Collection Date:** 27.03.2021

Sample/Job: Water Sample from River Tons Before Confluence to Miya Gad

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS*
Ammonical Nitrogen (As N)	mg/L	ND	50
Arsenic (as As)	mg/L	ND	0.2
BOD ₃ at 27°C	mg/L	ND	30
Cadmium (as Cd)	mg/L	ND	2.0
Chromium Hexavalent (as Cr ⁺⁶)	mg/L	ND	0.1
Chromium Total (as Cr)	mg/L	ND	2.0
COD	mg/L	ND	250
Colour	Hazen	16	-
Copper (as Cu)	mg/L	ND	3.0
Cyanide (as CN)	mg/L	ND	0.2
Dissolved Phosphates (as P)	mg/L	2.27	5.0
Fluoride (as F)	mg/L	0.16	2.0
Free Ammonia (as NH ₃)	mg/L	ND	5.0
Iron (as Fe)	mg/L	0.05	3.0
Lead (as Pb)	mg/L	ND	0.1
Manganese (as Mn)	mg/L	ND	2.0
Mercury (as Hg)	mg/L	ND	0.01
Nickel (as Ni)	mg/L	ND	3.0
Nitrate (as NO ₃)	mg/L	1.02	10
Odour	-	Agreeable	-
Oil & Grease	mg/L	ND	10

Contd..2

Author's
7/5/21

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PCRI/051

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भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखण्ड) -249403
POLLUTION CONTROL RESEARCH INSTITUTE

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(Approved Lab under Environment (Protection) Act, 1986; EIA Consultant by NABET, QCI)

TEST REPORT

-Page 2-

Lab Reference No: TL201053

Date: 05.05.2021

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS*
pH	-	8.0	5.5 - 9.0
Phenols (as C ₆ H ₅ OH)	mg/L	ND	1.0
Selenium (as Se)	mg/L	ND	0.05
Sulphide (as S)	mg/L	ND	2.0
Temperature	°C	17.2	Shall not exceed 5°C above the receiving water temperature
Total Dissolved Solids	mg/L	108	-
Total Kjeldahl Nitrogen (as N)	mg/L	ND	100
Total Residual Chlorine	mg/L	ND	1.0
Total Suspended Solids	mg/L	36	100
Vanadium (as V)	mg/L	ND	0.2
Zinc (as Zn)	mg/L	ND	5.0

ND - Not Detectable

*(SCHEDULE VI OF EPA, 1993) FOR DISCHARGE INTO INLAND SURFACE WATER

S. Bhatnagar
7575721
(Dr. S. Bhatnagar)

Sr. Dy. General Manager (PCRI)

डा. एस. भटनागर/ Dr. S. Bhatnagar
वरि. उप महाप्रबन्धक/Sr. Dy. General Manager
Pollution Control Research Institute
प्रदूषण नियन्त्रण अनुसंधान संस्थान
BHEL, Ranipur, Haridwar

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प्रदूषण नियन्त्रण अनुसंधान संस्थान
भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखण्ड) -249403

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BHARAT HEAVY ELECTRICALS LIMITED

RANIPUR, HARIDWAR (U.K.) - 249 403

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultant by NABET, QCI)

TEST REPORT

Lab Reference No:

TL201054

Date: 05.05.2021

Indentor :

M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori,
Distt. Uttarkashi, (Uttarakhand) - 249128

Customer's Ref. No.:

SJVN/NMHEP/LOA/Env./2021-22

Work Order No.:

20-0179-O-691

Sample Collected by: PCRI Staff

Collection Date: 27.03.2021

Sample/Job:

Water Sample from River Tons After Confluence to Miya Gad

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS*
Ammonical Nitrogen (As N)	mg/L	ND	50
Arsenic (as As)	mg/L	ND	0.2
BOD ₃ at 27°C	mg/L	ND	30
Cadmium (as Cd)	mg/L	ND	2.0
Chromium Hexavalent (as Cr ⁺⁶)	mg/L	ND	0.1
Chromium Total (as Cr)	mg/L	ND	2.0
COD	mg/L	ND	250
Colour	Hazen	14	-
Copper (as Cu)	mg/L	ND	3.0
Cyanide (as CN)	mg/L	ND	0.2
Dissolved Phosphates (as P)	mg/L	1.85	5.0
Fluoride (as F)	mg/L	0.14	2.0
Free Ammonia (as NH ₃)	mg/L	ND	5.0
Iron (as Fe)	mg/L	0.04	3.0
Lead (as Pb)	mg/L	ND	0.1
Manganese (as Mn)	mg/L	ND	2.0
Mercury (as Hg)	mg/L	ND	0.01
Nickel (as Ni)	mg/L	ND	3.0
Nitrate (as NO ₃)	mg/L	0.96	10
Odour	-	Agreeable	-
Oil & Grease	mg/L	ND	10

Contd..2

Amrinder
7/5/21

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POLLUTION CONTROL RESEARCH INSTITUTE

(A Govt. of India - UNDP / UNIDO Project)

BHARAT HEAVY ELECTRICALS LIMITED

RANIPUR, HARIDWAR (U.K.) - 249 403

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultant by NABET, QCI)

TEST REPORT

-Page 2-

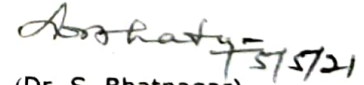
Lab Reference No: TL201054

Date: 05.05.2021

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS*
pH	-	8.7	5.5 - 9.0
Phenols (as C ₆ H ₅ OH)	mg/L	ND	1.0
Selenium (as Se)	mg/L	ND	0.05
Sulphide (as S)	mg/L	ND	2.0
Temperature	°C	17.0	Shall not exceed 5°C above the receiving water temperature
Total Dissolved Solids	mg/L	168	-
Total Kjeldahl Nitrogen (as N)	mg/L	ND	100
Total Residual Chlorine	mg/L	ND	1.0
Total Suspended Solids	mg/L	32	100
Vanadium (as V)	mg/L	ND	0.2
Zinc (as Zn)	mg/L	ND	5.0

ND - Not Detectable

*(SCHEDULE VI OF EPA, 1993) FOR DISCHARGE INTO INLAND SURFACE WATER


(Dr. S. Bhatnagar)

Sr. Dy. General Manager (PCRI)

डा. एस. भटनागर/ Dr. S. Bhatnagar
वरि. उप महाप्रबन्धक/ Sr. Dy. General Manager
Pollution Control Research Institute
प्रदूषण नियन्त्रण अनुसंधान संस्थान
BHEL, Ranipur, Haridwar

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PCRI/051

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(Approved Lab under Environment (Protection) Act, 1986; EIA Consultant by NABET, QCI)

Lab Reference No:

TEST REPORT
TE201055

Date: 05.05.2021

Indentor :

M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori,
Distt. Uttarkashi, (Uttarakhand) - 249128

Customer's Ref. No.:

SJVN/NMHEP/LOA/Envt./2021-22

Work Order No.:

20-0179-Q-691

Sample Collected by: **PCRI Staff**

Collection Date: 27.03.2021

Sample/Job:

Water Sample from River Tons Downstream to Power House

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS*
Ammonical Nitrogen (As N)	mg/L	ND	50
Arsenic (as As)	mg/L	ND	0.2
BOD ₃ at 27°C	mg/L	ND	30
Cadmium (as Cd)	mg/L	ND	2.0
Chromium Hexavalent (as Cr ⁺⁶)	mg/L	ND	0.1
Chromium Total (as Cr)	mg/L	ND	2.0
COD	mg/L	ND	250
Colour	Hazen	20	-
Copper (as Cu)	mg/L	ND	3.0
Cyanide (as CN)	mg/L	ND	0.2
Dissolved Phosphates (as P)	mg/L	1.80	5.0
Fluoride (as F)	mg/L	0.18	2.0
Free Ammonia (as NH ₃)	mg/L	ND	5.0
Iron (as Fe)	mg/L	0.04	3.0
Lead (as Pb)	mg/L	ND	0.1
Manganese (as Mn)	mg/L	ND	2.0
Mercury (as Hg)	mg/L	ND	0.01
Nickel (as Ni)	mg/L	ND	3.0
Nitrate (as NO ₃)	mg/L	0.98	10
Odour	-	Agreeable	-
Oil & Grease	mg/L	ND	10

Contd..2

Anshty =
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TEST REPORT

-Page 2-

Lab Reference No: TL201055

Date: 05.05.2021

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS*
pH	-	8.7	5.5 - 9.0
Phenols (as C ₆ H ₅ OH)	mg/L	ND	1.0
Selenium (as Se)	mg/L	ND	0.05
Sulphide (as S)	mg/L	ND	2.0
Temperature	°C	17.4	Shall not exceed 5°C above the receiving water temperature
Total Dissolved Solids	mg/L	179	-
Total Kjeldahl Nitrogen (as N)	mg/L	ND	100
Total Residual Chlorine	mg/L	ND	1.0
Total Suspended Solids	mg/L	28	100
Vanadium (as V)	mg/L	ND	0.2
Zinc (as Zn)	mg/L	ND	5.0

ND - Not Detectable

*(SCHEDULE VI OF EPA, 1993) FOR DISCHARGE INTO INLAND SURFACE WATER

S. Bhatnagar
7/5/21
(Dr. S. Bhatnagar)

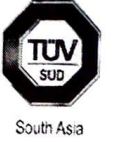
Sr. Dy. General Manager (PCRI)

डा. एस. भटनागर/ Dr. S. Bhatnagar
वरि. सहायक-प्रमुख/Sr. Dy. General Manager
Pollution Control Research Institute
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BHEL, Ranipur, Haridwar

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ISO 9001-2008 OHSAS 18001-2007

TEST REPORT
AMBIENT AIR MONITORING

Lab. Ref.:PCRI: Air & Noise: 2021-22 :001
Date: 27.04.2021

A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori, District- Uttarkashi (Uttarakhand)
2.	Work Order No.	:	20-0179-0-691
3.	Date of sampling	:	25-03-2021 To 26-03-2021
4.	Location of Sampling	:	Barrage Office (Site)
5.	Method of Sampling	:	IS:5182, Part-II-2001, Part-IV-1999, Jacob & Hochheiser Modified (Na-Arsenite), NDIR and Gravimetric (PM10 Sampler)
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Suspended Particulate Matter (SPM)	µg/m ³	89	-
2.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	52	100
3.	Particulate Matter PM _{2.5}	µg/m ³	28	60
4.	Sulphur Dioxide (SO ₂)	µg/m ³	BDL	80
5.	Nitrogen Dioxide (NO ₂)	µg/m ³	8	80
6.	Carbon Monoxide (CO)	mg/m ³	0.2	4
7.	Ozone (O ₃)	µg/m ³	39	180
8.	Lead (Pb)	µg/m ³	BDL	1
9.	Ammonia (NH ₃)	µg/m ³	BDL	400
10.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
11.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
12.	Arsenic (As)	ng/m ³	BDL	6
13.	Nickel (Ni)	ng/m ³	BDL	20

BDL: Below Detectable Limit,

** :National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009

Issued by

(Ambrish Goel)
Addl. General Manager (PCRI)

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SPCB and providing Test reports, Environmental Impact Assessment, Environmental Audits reports

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RANIPUR, HARIDWAR (U.K.) - 249 403
(Approved Lab under Environment (Protection) Act, 1986; EIA Consultancy by NABET, QCI)



ISO 9001-2008 OHSAS 18001-2007

TEST REPORT
AMBIENT AIR MONITORING

Lab. Ref.:PCRI: Air & Noise: 2021-22 :002
Date: 27.04.2021

A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori, District- Uttarkashi, Uttarakhand
2.	Work Order No.	:	20-0179-0-691
3.	Date of sampling	:	25-03-2021 To 26-03-2021
4.	Location of Sampling	:	Near Power House Office (Site)
5.	Method of Sampling	:	IS:5182, Part-II-2001, Part-IV-1999, Jacob & Hochheiser Modified (Na-Arsenite), NDIR, PM10 Sampler Gravimetric
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Measured Values	Allowable Limit**
1.	Suspended Particulate Matter (SPM)	µg/m ³	79	-
2.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	46	100
3.	Particulate Matter PM _{2.5}	µg/m ³	27	60
4.	Sulphur Dioxide (SO ₂)	µg/m ³	BDL	80
5.	Nitrogen Dioxide (NO ₂)	µg/m ³	9	80
6.	Carbon Monoxide (CO)	mg/m ³	0.25	4
7.	Ozone (O ₃)	µg/m ³	40	180
8.	Lead (Pb)	µg/m ³	BDL	1
9.	Ammonia (NH ₃)	µg/m ³	BDL	400
10.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
11.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
12.	Arsenic (As)	ng/m ³	BDL	6
13.	Nickel (Ni)	ng/m ³	BDL	20

BDL: Below Detectable Limit,

**National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009

Issued by

(Ambrish Goel)

Addl. General Manager (PCRI) DEL

अपर महाप्रबन्धक/ Addl. General Manager
प्रदूषण नियन्त्रण संस्थान, हरिद्वार

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RANIPUR, HARIDWAR (U.K.) - 249 403



ISO 9001-2008 OHSAS 18001-2007

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultancy by NABET, QCI)

TEST REPORT
AMBIENT AIR MONITORING

Lab. Ref.:PCRI: Air & Noise: 2021-22 :003
Date: 27.04.2021

A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori, District- Uttarkashi, Uttarakhand
2.	Work Order No.	:	20-0179-0-691
3.	Date of sampling	:	26-03-2021 To 27-03-2021
4.	Location of Sampling	:	Near Stone Crusher Site
5.	Method of Sampling	:	IS:5182, Part-II-2001, Part-IV-1999, Jacob & Hochheiser Modified (Na-Arsenite), NDIR, PM10 Sampler Gravimetric.
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.


B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Suspended Particulate Matter (SPM)	µg/m ³	98	-
2.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	54	100
3.	Particulate Matter PM _{2.5}	µg/m ³	31	60
4.	Sulphur Dioxide (SO ₂)	µg/m ³	BDL	80
5.	Nitrogen Dioxide (NO ₂)	µg/m ³	10	80
6.	Carbon Monoxide (CO)	mg/m ³	0.35	4
7.	Ozone (O ₃)	µg/m ³	39	180
8.	Lead (Pb)	µg/m ³	BDL	1
9.	Ammonia (NH ₃)	µg/m ³	BDL	400
10.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
11.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
12.	Arsenic (As)	ng/m ³	BDL	6
13.	Nickel (Ni)	ng/m ³	BDL	20

BDL: Below Detectable Limit,

**National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009

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