



# NABHA POWER LIMITED

**NPL**  
Nabha Power Limited

P.O. Box No -28, Near Nalash, Rajpura-140401, Punjab  
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Email ID: rajiv.bhandari@larsentoubro.com  
Letter.No.: NPL/HSE/20-21/30

28.11.2020

To,

**The Director**  
**Ministry of Environment, Forest and Climate Change**  
**(Northern Region)**  
**Bays Nos. 24-25, Sector 31-A,**  
**Chandigarh-160030**

**Ref: Environmental Clearance No J-13011/44/2008- IA-II (T) dated 3<sup>rd</sup> October 2008 and as Amended on dated 15<sup>th</sup> November 2010 and Extension dated 5<sup>th</sup> February 2014.**

**Sub: Half-Yearly Environment Clearance Compliance Report for the Period of 1<sup>st</sup> April 2020 to 30<sup>th</sup> September 2020.**

**Dear Sir,**

Please find enclosed Half Yearly Environment Clearance Compliance Report of M/s Nabha Power Ltd., Vill. Nalash, Distt- Patiala (Punjab) for the period from 1st April 2020 to 30th September 2020.

**Thanking you,**

Yours Sincerely,

**(Rajiv Bhandari)**  
**Authorised Signatory**  
**Nabha Power Limited**

Encl: As above.

- CC: 1) The Executive Environment Engineer, Regional Office, Patiala, Ground Floor, Vatavaran Bhawan, Nabha Road, Patiala.  
2) Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi.  
3) Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi.

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Corporate Office: L&T House, N M Marg, Ballard Estate, Mumbai 400 001  
CIN No: U40102PB2007PLC031039

**SIX MONTHLY COMPLIANCE  
REPORT OF ENVIRONMENTAL  
CLEARANCE**

**NABHA POWER LIMITED  
2×700 MW THERMAL POWER PLANT**



**VILL. NALASH  
DISTT. PATIALA  
(PUNJAB)**

**Submitted to:**

**MINISTRY OF ENVIRONMENT, FORESTS AND  
CLIMATE CHANGE  
New Delhi-110003**

**and**

**Regional Office (Northern Region)  
Chandigarh-160030  
Central Pollution Control Board, Delhi  
Punjab State Pollution Control Board, Patiala**

***Submitted By:***

**NABHA POWER LIMITED  
VILL. NALASH  
PATIALA (PUNJAB)**

**Period: 1st April-2020 to 30<sup>th</sup> September-2020**

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**Introduction**

Nabha Power Limited (NPL), was established as Special Purpose Vehicle (SPV) by the erstwhile Punjab State Electricity Board (PSEB) to develop the Rajpura Thermal Power Project at a site near village Nalash, Distt Patiala, Punjab. An RfQ/RfP was floated by PSEB in line with the Case 2 competitive bidding guidelines, Govt of India (GoI) and L&T Power Development Limited (a wholly owned subsidiary of L&T) was identified as the lowest bidder. NPL has signed Power Purchase Agreement on 18th January 2010 with PSEB and the NPL was also transferred to L&T Power Development Limited as its wholly owned subsidiary on 18th January, 2010.

The 1400 MW power plant is constructed as a unit configuration of 2 x 700 MW units, with one steam turbine and one boiler for each unit.

NPL is having two Pulverized Fuel Boilers, generating steam at 25.71MPa at 568 °C with two Condensing Turbo Generator Sets each having generating capacity of 700 MW of power. Installation of associated mechanical and electrical equipment, auxiliary units like coal, ash handling plant, water treatment plant, cooling water system, electrostatic precipitators (ESPs), NOx control equipment etc. are part of the total installation.

**SALIENT FEATURES OF NABHA POWER LTD.**

<b>Total Capacity</b>	2x700 MW (1400 MW)
<b>Fuel Requirement and Source</b>	5.7 MT/Year, SECL Mines
<b>Water requirement and source</b>	50 Cusec from Bhakra main canal
<b>Status</b>	Unit 1 Operational since 1 <sup>st</sup> Feb 2014
	Unit 2 Operational since 10 <sup>th</sup> July 2014

**Project Proponent** : Nabha Power Ltd.  
**Project Status** : U # I & U#II Synchronised on Feb-2014 and July-2014 respectively  
**Reference** : Ministry of Environment & Forest- Environmental Clearance No.-J-13011/44/2008-IA-II (T) dated 3<sup>rd</sup> October 2008 and Amendment dated 15<sup>th</sup> November 2010 and Extension dated 5<sup>th</sup> February 2014.

**Compliance Report for the period of April-2020 to September-2020**

S. No.	MOEF Conditions	Compliance Status
1.	The total land requirement for the project shall be restricted to 1278 acres.	The land requirement for 1400 MW has been restricted within 1278 acres only.
2.	Prior clearance from the competent authority shall be obtained for locating the proposed power plant in proximity (about 3 kms) of the defence installation. A copy of the same shall be furnished to the ministry and the regional office of this ministry within one month from the date of issue of this clearance letter.	NOC from Ministry of defence & AAI obtained on 25 <sup>th</sup> May, 2009, Ref No.:No. 21(7)/2008/D(Coord) & 22 <sup>nd</sup> July,2008, Ref No.: No. AAI/20012/664/ 2008-ARI (NOC) respectively.
3.	Sulphur & ash contents in the coal to be used in the project shall not exceed 0.5% & 34%.	Sulphur & ash contents in the coal being used are below 0.5% & 34%. Respectively. The Testing Reports are attached here as <b>Annexure 1 &amp; 2.</b>
4.	A bi-flue stack of height 275 m shall be provided with continuous online monitoring equipment for SOx, NOx & particulate matter. Exit velocity of flue gas should not be less than 25 m/sec.	Continuous online monitoring equipment are functional at 275 Mtr. stack on both the flues attached to Boiler 1 & Boiler 2 and monitoring of PM, Sox & Nox. is being done. As per EC validity extension dated 5.02.2014, exit velocity of flue gases shall not be less than 22 m/s therefore the exit velocity of flue gas is being maintained more than 22 m/sec in both the units. The Stack Emission Monitoring Reports from MoEF & CC approved laboratory is attached here as <b>Annexure-3.</b>
5.	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure particulate emission doesn't exceed 50 mg/m <sup>3</sup> .	The ESP's attached to Boiler 1 & 2 are functional and have efficiencies more than 99.99%. The SPM emissions are < 50 mg/Nm <sup>3</sup> . The stack Emission Monitoring Reports from MoEF & CC approved laboratory is attached here as <b>Annexure-3</b>
6.	Space provision shall be kept for retrofitting for FGD, if required at later date.	<ul style="list-style-type: none"> <li>• Space provision of installation of FGD has been kept and contract for installation of FGD was awarded on 26 Dec 2019.</li> <li>• Installation of FGD is under progress.</li> <li>• Commissioning of FGD is targeted for both units by December 2022.</li> </ul>
7.	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	The Dust extraction system & Dust suppression system (water sprinklers) is operational in the coal handling area, ash handling and at all transfer points. The photographs of the same is attached here as <b>Annexure-4</b>
8.	Fly ash to be collected in dry form in storage facility (silos) shall be provided. 100% utilization of fly ash shall be achieved from day one. Unutilized fly ash in emergency and bottom ash shall be disposed in ash pond and bottom ash in conventional slurry mode. Mercury and other heavy metals (Hg, Cr, Pb etc.) will be monitored in bottom ash and fly ash as also in the effluent emanating from ash pond.	Fly Ash Silos (3 Nos.) are fully operational. The utilization report of Fly ash is being submitted with the Regional Office, PPCB, MoEF&CC and CPCB on six monthly basis. Ash utilization report for the period from 1 <sup>st</sup> Apr'20 to 30 <sup>th</sup> Sep' 20 is attached here as <b>Annexure-5</b> Analysis of heavy metals is being done for both bottom & fly ash on six monthly basis.
9.	Ash pond shall be lined with HDPE lining. Adequate safety measures shall also be implemented to protect ash dyke from getting breached.	Ash Pond bed is provided with HDPE lining (500 micron thick) over 50 mm thick sand cushion and top of HDPE liner is protected with 300 mm earth cover.

10.	Closed cycle cooling system with cooling towers shall be provided. Effluents shall be treated as per the prescribed norms.	Complied.
11.	The treated effluents conforming to the prescribed standard shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during Monsoon. Arrangement shall be made that effluent & storm water do not get mix.	The Power plant is based on Zero Discharge (ZLD) concept and the treated effluents conforming to prescribed standards are being re- circulated and reused within the Plant. There is no discharge outside the plant boundary.
12.	A Sewage Treatment Plant shall be provided, and treated sewage shall be used for raising green belt/plantation.	The Sewage treatment plant of 50 KLD capacities is in operation. The treated water is being used for Green belt development/Plantation. The treated effluent report is attached as <b>Annexure-6</b>
13.	Rain water harvesting should be adopted. Central Ground Water Authority/board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Rain water harvesting pits have been made as per the Rain water harvesting scheme approved by CGWA.
14.	Adequate safety measures shall be provided in plant area to check/minimize spontaneous fire in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry at Chandigarh.	The safety measures submitted to MOEF vide letter ref: NPL/SKN/MOEF/1423 dated: 28 <sup>th</sup> June 2012 have been implemented to check/minimize spontaneous fire in coal yard.
15.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of project.	Adequate arrangements were made for construction labour such as toilets, STP, safe drinking water, medical health care etc. during project state.
16.	Storage facilities for liquid fuel such as LDO and HFO/LSHS shall be made in the plant area where risk is minimum to the storage facilities. Onsite and off-site disaster management plan shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modification required, if any shall be incorporated in the DMP.	The Storage tanks for LDO & HFO storage have been made after necessary risk assessment. On-site disaster management plan is prepared, and the adequacy of the Plan is being tested on regular basis through conducting mock drills.
17.	Regular monitoring of ground water in and around ash pond area shall be carried out, records maintained, and six-monthly reports shall be furnished to Regional Office, Chandigarh.	Regular monitoring is being done and reports are being submitted to MOEF & PPCB on six monthly basis. Latest reports are attached as <b>Annexure-7</b>
18.	A green belt of adequate width and density shall be developed around plant periphery covering about 1/3 <sup>rd</sup> of project area preferably with local species.	2.5 Lakh trees already planted @2500/ha with local species. The Green Belt Development photographs are attached as <b>Annexure-8</b>
19.	Activities under CSR shall be enhanced with proper financial allocation. Details of these activities shall be submitted to the Regional Office of the Ministry, SPCB and the Ministry.	Rs. 440.00 lacs have been spent during FY-19-20 against the set target of Rs.4.40 lacs. Details are attached as <b>Annexure-9</b> .
20.	First aid & sanitation arrangement shall be made for the drivers and other contract workers during construction phase.	First aid centre (OHC) & adequate sanitation arrangement are available for employees as well as contractual employees.
21.	Noise level emanating from turbines shall be limited to 75 dB (A). For people working in the high noise area, requisite personal protective equipment like Earplug/ear muffs etc. shall be provided. Workers engaged in noisy area such as turbine area, air compressors etc. shall be periodically examined to	The Noise levels are maintained well below the prescribed standards. PPE's are being provided to all the workers depending upon the task being performed. Medical examination of the workers engaged in high noise area is being done on six monthly basis and records being maintained.



	maintain audiometry record and for any hearing loss including shifting to non-noisy/less noisy areas.	
22.	Regular monitoring of ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , SPM, RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of the monitoring shall be decided in consultation with SPCB. Periodic report to be submitted to Regional office of this Ministry.	Monitoring reports are regularly being submitted to Regional office of Ministry and PPCB. Latest reports are attached as <b>Annexure-10</b>
23.	The project proponent shall advertise in two local newspaper widely circulated in the region around the project, one of which shall be in the vernacular language of the locality/Municipal area/Gram Panchayat concerned and on the company's website within seven days from the date of clearance letter, informing that the project has been accorded environment 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	Complied.
24.	A separate Environment Management Cell with qualified staff to be set up for implementation of the stipulated environmental safeguards.	EMC comprising of qualified staff with adequate experience and knowledge is in place to cater environmental responsibilities.
25.	Half yearly report on status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/Regional Office/CPCB/SPCB.	Being Complied.
26.	Regional office of the Ministry of Environment & Forests located at Chandigarh will monitor implementation of stipulated conditions. A complete set of documents including EIA report & EMP report along with additional information submitted from time to time shall be forwarded to the regional office for their use during monitoring.	Complied.
27.	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These costs shall be included as part of project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes & year wise expenditure should be reported to Ministry.	Being Complied
28.	The project authorities shall inform the regional office as well as the Ministry regarding the date of financial closure and final approval of project by concerned authorities and the dates of start of land development work and commissioning of plant.	Plant is in Operation and generation capacity is 1400 MW
29.	Full co-operation should be extended to the scientists/officers from the Ministry/Regional office of the Ministry at Chandigarh/the CPCB/the SPCB who would be monitoring compliance of environmental status.	The NPL is providing full co-operation to the scientists/officers from the Ministry/Regional office of the Ministry at Chandigarh/the CPCB/the SPCB who are monitoring compliance of environmental status, time to time.
30.	No additional coal consumption beyond 5.8 MTPA (at 85 % PLF) earlier envisaged for 2 x 660 MW and no additional land for the enhanced capacity shall be permitted.	Being Complied.

31.	The project proponent shall upload the status of compliance of the conditions stipulated in the environmental clearance issued vide Ministry's letter of even no. dated 03.10.2008, in its website and update periodically and also simultaneously send the same by email to regional office of Ministry of Environment and Forests.	NPL website is live & the compliance reports are uploaded periodically on website. Website address: <a href="http://www.lntnabhapower.com">http://www.lntnabhapower.com</a>
32.	Critical pollutants levels including NO <sub>x</sub> , RPSM <sub>10 and 2.5</sub> , SO <sub>2</sub> shall be regularly monitored and results displayed in your website and also at main gate of the power plant.	Being Complied.

**Reference: Ministry of Environment & Forest-Environmental Clearance No -J-13011/44/2008- IA-II (T) dated 3<sup>rd</sup> October 2008 and Amendment dated 15<sup>th</sup> November 2010. Validity Extension Dated 5.02.2014**

S. No.	MOEF Conditions	Compliance Status
33	Harnessing solar power within the premises of the plant particularly at the available roof tops shall be under taken and status of implementation shall be submitted periodically to regional office of ministry	Solar panels on field hostel roof, Clarifier area, CHP and at DM plant area has already been provided.
34	A long-term study on radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio-activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Radioactive and Heavy metal contents in Coal are being analysis on six monthly basis from approved lab of MoEF&CC and PPCB.
35	Exit velocity of flue gases shall not be less than 22 m/s. Mercury emissions from stack shall also be monitored on periodic basis.	The exit velocity of flue gases is more than 22 m/s. Mercury emissions from the stack is regularly monitored and the reports are being submitted to MOEF&CC on periodic basis. Latest reports are attached as <b>Annexure-3</b>
36	Fugitive emissions shall be controlled to prevent impact on agriculture or non-agriculture land.	Adequate measures to control fugitive emissions already in place.
37	No ground water shall be extracted for use in operation of power plant even in lean season.	Complied.
38	Source sustainability of water requirement shall be carried out by an institute of repute. The study shall also specify the source of water for meeting the requirement during lean season. The report shall be submitted to the Regional Office of ministry within six months.	For Nabha Power Limited the source of water is Bhakhra Canal and necessary permission in this regard was taken from Irrigation Department, Punjab and was submitted with your kind office before grant of Environmental Clearance. When we had applied for Extn. of EC, our plant was already Commissioned, and we were having valid Consent to Operate from State Pollution Control Board. <b>Therefore, the said condition is not applicable on us.</b>
39	Hydro geological study of the area shall be reviewed annually, and report submitted to the ministry. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/ operation of the power plant.	The Hydrogeology study of the area was conducted before grant of EC by MOEF&CC. No Ground Water abstraction is being done. We are only using Canal water for generation of Power. <b>Therefore, the said condition is not applicable on us.</b>
40	Minimum required environment flow suggested by the competent authority of the state government shall be maintained in the Channel / Rivers (as applicable) even in lean season.	Agreed
41	C.O.C of 5.0 shall be adopted	Adopted and being complied.
42	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for fly ash utilization without adequate lining of mine with suitable	Fly ash is being utilized as per the Notification from MoEF&CC.



	media such that no leachate shall take place at any point of time. In case, the option for mine void filling is to be adopted, prior detailed study of soil characteristics of mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close coordination with the State Pollution Control Board	
43	Green belt consisting of 3 tiers of plantations of native species around the plant and at least 100m width shall be raised. Wherever 100m width is not feasible a 50 m width shall be raised, and adequate justification shall be submitted to Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 75 %.	Complied. The Green Belt Development photographs are attached as <b>Annexure-8</b>
44	Three tier green belt shall be developed all around ash pond over and above the green belt around the plant boundary.	Complied.
45	A common <b>Green Endowment Fund</b> shall be created, and the interest earned out of it shall be used for the development and management of Green cover of the area.	Being complied
46	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	<p><b>For villages</b></p> <ul style="list-style-type: none"> <li>- During the Covid-19 situation, approx. 3450 families from 49 villages have been supported with Ration, similarly around 32000 face masks had been distributed to village people, Health/Aganwari/Nrega workers, Police officials and other administration bodies.</li> <li>- Under new initiatives of Natural Water Bodies Rejuvenation, NPL developed the village pond at village Ugani to treat the wastewater for irrigation/fishery.</li> <li>- NPL Started GNM Scholarship program for meritorious girl students belong to economical weaker background. 10 students have been supported under the scheme.</li> <li>- NPL under the WB scheme helped building of 3 Overhead water tanks. State govt has already implemented scheme of Overhead tanks in most of the NPL catchment villages.</li> <li>- RO water Purifiers have been installed in most of the villages by the state govt. For schools</li> <li>- All schools in NPL catchment area have drinking water facilities linked to OH tanks / deep Borewells.</li> </ul>
47	An amount of Rs 22 Crores shall be earmarked as one-time capital cost for CSR program. Subsequently a recurring expenditure of Rs 4.4 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with the road map for implementation.	<p>CSR spent for last three years</p> <p>2017-18: 441 Lacs</p> <p>2018-19: 440 Lacs</p> <p>2019-20: 440 Lacs</p>
48	CSR scheme should address Public Hearing issues and shall be undertaken based on need based assessment in and around villages within 5.0 km of the site and in constant consultation with the village Panchayat and District administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall also be undertaken. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program. Company shall provide separate budget for community development activities and income generating programs. Vocational training program for possible self-employment and jobs shall be imparted to identify villagers free of cost.	<p>Complied.</p> <p>Presently working in 49 villages (radius of 5 kms). All schemes are being implemented in the target villages in coordination with village panchayats.</p> <ul style="list-style-type: none"> <li>- Annual Panchayat meeting held in Feb-20 in which Panchayat members/representative were being invited to discuss the ongoing NPL CSR initiative and also to take their feedback/suggestions for future plan.</li> <li>- As an endeavor to provide sustainable source of livelihood to the rural women/girls, a Embroidery Training Center has been started in which around 25 beneficiaries are getting training and subsequently engaged in income generating activities.</li> </ul> <p>Local youth are being given preference for jobs in plant as</p>

		per their skills, qualification and criteria set for the job.
49	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	- In-built monitoring of schemes through a 5-member CSR committee chaired by Senior Plant Officials who meets quarterly to discuss and implement projects identified. Social Audit of FY-18-19 & 19-20 has been completed and waiting for report.
50	An Environmental cell shall be created at the project site itself and shall be headed by an officer of the company of appropriate seniority and qualification. It shall be ensured that the head of the cell shall directly report to the Head of the organization.	Environmental Cell Headed by DGM-HSE is already in place who directly reports to the Head of Organisation.
51	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Regular monitoring of ground water quality including heavy metals is being carried out regularly in and around the Ash Dykes. Piezometer wells are established around the ash pond area and being regularly monitored. Latest reports are attached as <b>Annexure-7</b>
52	Monitoring of the surface quantity and quality shall also be regularly conducted, and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	No Ground Water is being abstracted as we are using Canal water for generation of Power. The quality and quantity of the canal water is monitored, and records are being maintained. We are already monitoring Heavy metals in Ground Water by taking sample thru Piezometer and submitting the respective reports to Regional office of the ministry at Chandigarh. Latest reports are attached as <b>Annexure-7</b>
53	The environment statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Complied.  Last Environmental Report was submitted On 29.09.2020 to Regional Office of the Ministry at Chandigarh and PPCB, Patiala.
54	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	HSE Policy has been framed and accordingly officers have been designated for achieving the objectives by adherence to the Policy. We are certified for Integrated Management System requirements (ISO 9001, 14001 & 45001 & 50001)

## **Annexure – 1**

### **Test Report of Sulphur % in Coal**

## TEST REPORT

Not Valid for Consent Purpose

Ref No. Lab/32  
Dated-30.09.2011

ULR No.	NA	Test Report No.	EL120920GSD002-A
Type of Sample	Coal	Date of Reporting	22/09/2020

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash Distt. Patiala, Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.18/09/2018
		Customer reference No.(If any)	NA
Sampling Protocol	ASTM D7582	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	12/09/2020	Date of Receipt of Sample	12/09/2020
Sampling Location	From Coal Pile	Testing Location	Permanent Facility
Testing Protocol	Lab SOP & APHA	Period of Analysis	12/09/2020 To 22/09/2020
Sample Description	Black colored powder.		
Packing, Markings, Seal & Quantity	1 kg Poly Bag Marked 'B/12/06'		

## TEST RESULTS

### i -Chemical Testing

#### 1. Pollution & Environment (Coal)

S. No.	Test Parameter	Unit	Result	Standard*	Test Method
1.	Sulphur Content	%	0.46	0.5	IS: 1350 (Part- III)

Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Limit, NA: Not Applicable

Symbols : \*Client Specification

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

**\*\*End of Report\*\***

Checked by QA

Authorized Signatory-Chemical

## **Annexure- 2**

### **Test Report of Ash % in Coal**

## Annexure-2

### Details of Average Ash Content in Coal in %

<b>Month</b>	<b>Average Ash Content in Coal in %</b>
April-20	30.66
May-20	33.04
June-20	33.59
July-20	34.48
August-20	32.08
September-20	33.05
Average	32.82



## **Annexure- 3**

# **Stack Emission Monitoring Results and Photograph of Continuous Emission Monitoring System (CEMS).**



Ref. No. Lab/32  
dated: 30.09.2011

## TEST REPORT

Valid for Consent Purpose



TC-7477

ULR No. : TC747720000001693F		Test Report No. : EL140920NSE004	
Type of Sample : Stack Emission (Boiler)		Date of Reporting : 21/09/2020	
Name & Address of Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	14/09/2020
Source of Emission	Stack of Boiler-1 (2322 TPH)	Fuel Used	Coal
Stack Description	Single, Circular & Metal	APCD Details (If provided)	ESP
Point of Sample Collection	From Port Hole after APCD	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)		
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameter	Unit	Result	Standard	Test Method
1	Particulate Matter (PM), at 12% CO2 Correction	mg/Nm <sup>3</sup>	39	50	IS: 11255 (Part-1) :1985, RA 2014
2	Sulphur Dioxide (SO2)	ppm	539	--	Lab SOP: EL/SOP/SE/12
3	Oxide of Nitrogen (NOx)	ppm	182	--	Lab SOP: EL/SOP/SE/12
4	Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	21	--	Lab SOP: EL/SOP/SE/12
5	Flue Gas Velocity	m/sec	22.8	--	IS: 11255 (Part-3) : 2008

Remarks : NA

### OTHER INFORMATION


Abbreviation :


ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical

## TEST REPORT



Lab No. Lab/323  
Date: 20.09.2018

Not Valid for Consent Purpose

ULR No. : NA		Test Report No. : EL140920NSE004/A	
Type of Sample : Stack Emission (Boiler)		Date of Reporting : 21/09/2020	
Name & Address of Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (if any)	NA
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	14/09/2020
Source of Emission	Stack of Boiler-1 (2322 TPH)	Fuel Used	Coal
Stack Description	Single, Circular & Metal	APCD Details (if provided)	ESP
Point of Sample Collection	From Port Hole after APCD	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)		
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameter	Unit	Result	Standard	Test Method
1	Mercury (Hg)	mg/Nm <sup>3</sup>	BDL (DL 0.01)	0.03	USEPA Method 29

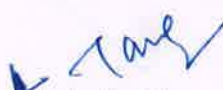
Remarks : This test report is the part of Test Report No. EL140920NSE004.


### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical



Lab No. Lab/52  
 Dated: 30.09.2011

## TEST REPORT

Valid for Consent Purpose



ULR No. : TC747720000001694F		Test Report No. : EL140920NSE005	
Type of Sample : Stack Emission (Boiler)		Date of Reporting : 21/09/2020	
Name & Address of Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (if any)	NA
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	14/09/2020
Source of Emission	Stack of Boiler-2 (2322 TPH)	Fuel Used	Coal
Stack Description	Single, Circular & Metal	APCD Details (if provided)	ESP
Point of Sample Collection	From Port Hole after APCD	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)		
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameter	Unit	Result	Standard	Test Method
1	Particulate Matter (PM), at 12% CO2 Correction	mg/Nm <sup>3</sup>	42	50	IS: 11255 (Part-1) :1985, RA 2014
2	Sulphur Dioxide (SO2)	ppm	510	--	Lab SOP: EL/SOP/SE/12
3	Oxide of Nitrogen (NOx)	ppm	178	--	Lab SOP: EL/SOP/SE/12
4	Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	19	--	Lab SOP: EL/SOP/SE/12
5	Flue Gas Velocity	m/sec	22.3	--	IS: 11255 (Part-3) : 2008

Remarks : NA

### OTHER INFORMATION

#### Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

#### Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*



Checked by QA



Dr Rai Singh

Authorized Signatory-Chemical



## TEST REPORT



Lab No. Lab/52  
Dated-30.09.2011

*Not Valid for Consent Purpose*

ULR No. : NA		Test Report No. : EL140920NSE005/A	
Type of Sample : Stack Emission (Boiler)		Date of Reporting : 21/09/2020	
Name & Address of Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	14/09/2020
Source of Emission	Stack of Boiler-2 (2322 TPH)	Fuel Used	Coal
Stack Description	Single, Circular & Metal	APCD Details (If provided)	ESP
Point of Sample Collection	From Port Hole after APCD	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)		
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameter	Unit	Result	Standard	Test Method
1	Mercury (Hg)	mg/Nm <sup>3</sup>	BDL (DL 0.01)	0.03	USEPA Method 29

Remarks : This test report is the part of Test Report No. EL140920NSE005.

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

**\*\*End of Report\*\***

Checked by QA

Dr Rai Singh  
Authorized Signatory-Chemical



# PUNJAB POLLUTION CONTROL BOARD

AIR LABORATORY, HEAD OFFICE, VATAVARAN BHAWAN, PATIALA

Telefax: 0175-2302392

Email : [ppcbairlab@gmail.com](mailto:ppcbairlab@gmail.com)

1. Laboratory Sample No. 521-22/ H.O.Lab./Air/Monitoring/2020-21
2. Name of Industry M/s Nabha Power Ltd Vill Nalash Rajpura ,Dist Patiala.
3. Name of Sample collecting Officer Er. Navtesh Singla AEE, and Sh. Avtar Singh, ASO.
4. Designation of authorizing Test Environmental Engineer, RO Patiala
5. Type of Sample Stack Emission
6. Date & Time of Sample collection 21-09-2020
7. Date & Time of Sample receipt in Lab. 21-09-2020
8. Point of Sample collection Details as Given Below

## Results

Point of sample Collection	Parameter	Results	Prescribed standards
Port hole on stack after APCD of Boiler furnace of Cap 2322TPH	Particulate Matter	39mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>
Port hole on stack after APCD of Boiler furnace of Cap 2322TPH	Particulate Matter	42 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>

Endst. No: 21385-86

Assistant Scientific Officer

Dt. 25-9-20

- A copy of the above is forwarded to the following for information and necessary action:-
1. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal Office-I, Patiala.
  2. The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Patiala.

Assistant Scientific Officer

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**PUNJAB POLLUTION CONTROL BOARD**  
**HEAD OFFICE AIR LAB. VATAVARAN BHAWAN, PATIALA**

Ph:- 0175-2302392

Web: www.ppcb.gov.in  
 E-mail: - ppcbairlab@gmail.com

- |  |  |
|--|--|
| 1. Laboratory Sample No.                 | 109-111/ H.O.Lab./Air/Monitoring/2020-21                             |
| 2. Name of Industry                      | M/s Nabha Power Ltd., Village Nalash, Tehsil Rajpura, Distt. Patiala |
| 3. Name of Sample collecting Officer     | Er. Navtresh Singla, AEE and Sh. Avtar Singh, ASO                    |
| 4. Designation of authorizing Test       | EE, RO, Patiala  |
| 5. Type of Sample                        | Stack Emission   |
| 6. Date & Time of Sample collection      | 09.06.2020   |
| 7. Date & Time of Sample receipt in Lab. | 10.06.2020   |
| 8. Point of Sample collection            | Details as Given Below   |

*Put up report*  
 न.द.दि:- 1/2/3/S.A.  
 नवीं बख  
 दि: 10/6/20  
 डाहिरी नं.....मिडी.....

**Results**

Point of sample Collection	Parameter	Results
From Port hole on stack after APCD of Boiler Furnace of unit-1	Particulate Matter	46 mg/Nm <sup>3</sup> at 12% CO <sub>2</sub>
	SO <sub>2</sub>	488 ppm
	NO <sub>x</sub>	160 ppm

Endst. No: 123w-01

*m. Singh*  
 Assistant Scientific Officer  
 12/6/2020  
 DL 12/6/2020

- A copy of the above is forwarded to the following for information and necessary action:-
1. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal Office-I Patiala
  2. The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Patiala

*m. Singh*  
 Assistant Scientific Officer  
 12/6/2020





# Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



[A Govt. Approved, ISO 9001:2015, 14001 & 45001: 2018 certified & Approved by MOEF, PPCB]



Lab Ref. No. Lab/3233892

Dated-30.09.2011

## TEST REPORT

Not Valid for Consent Purpose

ULR No. :	NA	Test Report No. :	EL270620GA012 /01
Type of Sample :	Stack Emission (Boiler)	Date of Reporting :	30/06/2020
Name & Address of Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	-
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	25/06/2020	Date of Receipt of Sample	27/06/2020
Source of Emission	Stack of Boiler-1 (2322 TPH)	Fuel Used	Coal
Stack Description	Single, Circular & Metal	APCD Details (If provided)	ESP
Point of Sample Collection	From Port Hole after APCD	Period of Analysis	27/06/2020 To 30/06/2020
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)		
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameter	Unit	Result	Standard	Test Method
1	Particulate Matter (PM)	mg/Nm <sup>3</sup>	37	50	IS: 11255 (Part-1) :1985, RA 2014
2	Sulphur Dioxide (SO <sub>2</sub> ),	ppm	511	--	Lab SOP: EL/SOP/SE/12
3	Oxide of Nitrogen (NO <sub>x</sub> ),	ppm	177	--	Lab SOP: EL/SOP/SE/12
4	Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	18	--	Lab SOP: EL/SOP/SE/12
5	Carbon Dioxide (CO <sub>2</sub> )	%	12.2	--	Lab SOP: EL/SOP/SE/12
6	Mercury (Hg)	mg/Nm <sup>3</sup>	BDL(DLO.01)	0.03	USEPA Method 29
7	Flue Gas Velocity	m/sec	22.3	--	IS: 11255 (Part-3) : 2008

Remarks : This test report is the amendment of The test Report No.EL270920GA012 as one more parameter (Velocity) is added.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

Checked by QA

Format No. F/7.8.2-SE01; 26-11-19; Rev 04

Dr Rai Singh  
Authorized Signatory-Chemical  
(Sec.74) Mohali

Page No. 1/1

**ECO BHAWAN** E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071

TeleFax: 0172-4616225 M: 9781303109 consulteco@yahoo.com ecolab@ecoparyavaran.org www.ecoparyavaran.org



[A Govt. Approved, ISO 9001:2015, 14001 & 45001: 2018 certified & Approved by MOEF, PPCB]

## TEST REPORT

Not Valid for Consent Purpose



PPCB-Ref. No. Lab/8238892

Dated-30.09.2011

ULR No. :	NA	Test Report No. :	EL270620GA013 /01
Type of Sample :	Stack Emission (Boiler)	Date of Reporting :	30/06/2020
Name & Address of Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	-
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	25/06/2020	Date of Receipt of Sample	27/06/2020
Source of Emission	Stack of Boiler-2 (2322 TPH)	Fuel Used	Coal
Stack Description	Single, Circular & Metal	APCD Details (If provided)	ESP
Point of Sample Collection	From Port Hole after APCD	Period of Analysis	27/06/2020 To 30/06/2020
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)		
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Stack Emission)

S.No.	Test Parameter	Unit	Result	Standard	Test Method
1	Particulate Matter (PM)	mg/Nm <sup>3</sup>	40	50	IS: 11255 (Part-1) :1985, RA 2014
2	Sulphur Dioxide (SO <sub>2</sub> ),	ppm	527	--	Lab SOP: EL/SOP/SE/12
3	Oxide of Nitrogen (NO <sub>x</sub> ),	ppm	181	--	Lab SOP: EL/SOP/SE/12
4	Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	19	--	Lab SOP: EL/SOP/SE/12
5	Carbon Dioxide (CO <sub>2</sub> )	%	12.7	--	Lab SOP: EL/SOP/SE/12
6	Mercury (Hg)	mg/Nm <sup>3</sup>	BDL(DL0.01)	0.03	USEPA Method 29
7	Flue Gas Velocity	m/sec	22.7	--	IS: 11255 (Part-3) : 2008

Remarks : This test report is the amendment of The test Report No.EL270920GA013 as one more parameter (Velocity) is added.

#### OTHER INFORMATION

Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

Checked by QA

Dr Rai Singh  
Authorized Signatory-Chemical



### Annexure-3



**Continuous emission monitoring system installed at main stack for measurement of Particulate Matter & Gaseous Emissions.**

## **Annexure- 4**

### **Measures taken to control fugitive emissions**

## Annexure-4



**Dust Extraction System at Crusher House**



**Dust Extraction System at Bunker**



## Annexure-4

### 1. Measures taken to control fugitive emissions during coal handling



**Covered conveyors for transfer of coal from Wagon tippler to coal bunkers for abatement of fugitive emissions**



**Dust suppression (sprinkler system) provided at each coal stockpile to arrest Dust**



**Automated and Mechanized Coal handling System to minimize manual operations**



**Three side covered windscreen to control fugitive emissions due to wind flow**

## Annexure-4



**Dust Suppression System installed at Wagon Tippler Area to control Fugitive Emission During Unloading of Coal.**

# **Annexure-5**

## **Fly Ash Utilization Report**

**Nabha Power Ltd.**

**Fly Ash Utilization FY 2020-21**

Period	Month	Ash Generation Data (MT)			Ash Utilisation Data (MT)			Total Ash Utilised (MT)	Total Ash Utilised %	Remark
		Fly Ash	Bottom Ash	Total	Dry Fly Ash	Pond Ash				
FY 2020-21	Apr-20	0	0	0	2247	0	2247			Plant was under Shut down
	May-20	20374	4592	24966	21174	7925	29099	117%		
	Jun-20	118712	21028	139740	118612	21714	140326	100%		
	Jul-20	152614	26622	179236	141114	13732	154846	86%		
	Aug-20	144663	22906	167569	137363	12391	149754	89%		
	Sep-20	147813	20901	168714	148113	20443	168556	100%		
<b>Total</b>		584176	96049	680225	568623	76205	644828	95%		

**Note - 1.** Due to COVID-19 pandemic, demand of fly ash was low.

**2.** Only 56,574 MT fly ash stock was available as on 30-09-2020 which is well within permissible temporary storage of up to 90 days' generation

**3.** NPL is likely to achieve 100% utilization during FY 2020-21

# Annexure-6

## Treated Sewage Monitoring Results

Sl. No.	Parameter	Unit	Value	Standard
1	BOD	mg/l	10	10
2	COD	mg/l	15	15
3	TSS	mg/l	10	10
4	pH		7.5	7.5
5	Chlorine	mg/l	1.0	1.0
6	Ammonia	mg/l	0.5	0.5
7	Nitrate	mg/l	10	10
8	Phosphate	mg/l	0.5	0.5
9	Calcium	mg/l	100	100
10	Magnesium	mg/l	50	50
11	Total Hardness	mg/l	150	150
12	Dissolved Oxygen	mg/l	8.0	8.0
13	Free Chlorine	mg/l	1.0	1.0
14	Total Chlorine	mg/l	1.0	1.0
15	Residual Chlorine	mg/l	1.0	1.0
16	Chlorine Demand	mg/l	0.5	0.5
17	Chlorine Residual	mg/l	0.5	0.5
18	Chlorine Consumption	mg/l	0.5	0.5
19	Chlorine Efficiency	%	100	100
20	Chlorine Loss	mg/l	0.5	0.5
21	Chlorine Gain	mg/l	0.5	0.5
22	Chlorine Balance	mg/l	0.5	0.5
23	Chlorine Residual	mg/l	0.5	0.5
24	Chlorine Demand	mg/l	0.5	0.5
25	Chlorine Residual	mg/l	0.5	0.5
26	Chlorine Demand	mg/l	0.5	0.5
27	Chlorine Residual	mg/l	0.5	0.5
28	Chlorine Demand	mg/l	0.5	0.5
29	Chlorine Residual	mg/l	0.5	0.5
30	Chlorine Demand	mg/l	0.5	0.5
31	Chlorine Residual	mg/l	0.5	0.5
32	Chlorine Demand	mg/l	0.5	0.5
33	Chlorine Residual	mg/l	0.5	0.5
34	Chlorine Demand	mg/l	0.5	0.5
35	Chlorine Residual	mg/l	0.5	0.5
36	Chlorine Demand	mg/l	0.5	0.5
37	Chlorine Residual	mg/l	0.5	0.5
38	Chlorine Demand	mg/l	0.5	0.5
39	Chlorine Residual	mg/l	0.5	0.5
40	Chlorine Demand	mg/l	0.5	0.5
41	Chlorine Residual	mg/l	0.5	0.5
42	Chlorine Demand	mg/l	0.5	0.5
43	Chlorine Residual	mg/l	0.5	0.5
44	Chlorine Demand	mg/l	0.5	0.5
45	Chlorine Residual	mg/l	0.5	0.5
46	Chlorine Demand	mg/l	0.5	0.5
47	Chlorine Residual	mg/l	0.5	0.5
48	Chlorine Demand	mg/l	0.5	0.5
49	Chlorine Residual	mg/l	0.5	0.5
50	Chlorine Demand	mg/l	0.5	0.5
51	Chlorine Residual	mg/l	0.5	0.5
52	Chlorine Demand	mg/l	0.5	0.5
53	Chlorine Residual	mg/l	0.5	0.5
54	Chlorine Demand	mg/l	0.5	0.5
55	Chlorine Residual	mg/l	0.5	0.5
56	Chlorine Demand	mg/l	0.5	0.5
57	Chlorine Residual	mg/l	0.5	0.5
58	Chlorine Demand	mg/l	0.5	0.5
59	Chlorine Residual	mg/l	0.5	0.5
60	Chlorine Demand	mg/l	0.5	0.5
61	Chlorine Residual	mg/l	0.5	0.5
62	Chlorine Demand	mg/l	0.5	0.5
63	Chlorine Residual	mg/l	0.5	0.5
64	Chlorine Demand	mg/l	0.5	0.5
65	Chlorine Residual	mg/l	0.5	0.5
66	Chlorine Demand	mg/l	0.5	0.5
67	Chlorine Residual	mg/l	0.5	0.5
68	Chlorine Demand	mg/l	0.5	0.5
69	Chlorine Residual	mg/l	0.5	0.5
70	Chlorine Demand	mg/l	0.5	0.5
71	Chlorine Residual	mg/l	0.5	0.5
72	Chlorine Demand	mg/l	0.5	0.5
73	Chlorine Residual	mg/l	0.5	0.5
74	Chlorine Demand	mg/l	0.5	0.5
75	Chlorine Residual	mg/l	0.5	0.5
76	Chlorine Demand	mg/l	0.5	0.5
77	Chlorine Residual	mg/l	0.5	0.5
78	Chlorine Demand	mg/l	0.5	0.5
79	Chlorine Residual	mg/l	0.5	0.5
80	Chlorine Demand	mg/l	0.5	0.5
81	Chlorine Residual	mg/l	0.5	0.5
82	Chlorine Demand	mg/l	0.5	0.5
83	Chlorine Residual	mg/l	0.5	0.5
84	Chlorine Demand	mg/l	0.5	0.5
85	Chlorine Residual	mg/l	0.5	0.5
86	Chlorine Demand	mg/l	0.5	0.5
87	Chlorine Residual	mg/l	0.5	0.5
88	Chlorine Demand	mg/l	0.5	0.5
89	Chlorine Residual	mg/l	0.5	0.5
90	Chlorine Demand	mg/l	0.5	0.5
91	Chlorine Residual	mg/l	0.5	0.5
92	Chlorine Demand	mg/l	0.5	0.5
93	Chlorine Residual	mg/l	0.5	0.5
94	Chlorine Demand	mg/l	0.5	0.5
95	Chlorine Residual	mg/l	0.5	0.5
96	Chlorine Demand	mg/l	0.5	0.5
97	Chlorine Residual	mg/l	0.5	0.5
98	Chlorine Demand	mg/l	0.5	0.5
99	Chlorine Residual	mg/l	0.5	0.5
100	Chlorine Demand	mg/l	0.5	0.5



## TEST REPORT



ULR No. Lab/101  
19-09-2020

Not Valid for Consent Purpose



ULR No. : TC747720000001643F		Test Report No. : EL110920NE001	
Type of Sample : Waste Water (Sewage)		Date of Reporting : 19/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (if any)	NA
Sampling Protocol	IS:3025 (P-1)1987 RA2019	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	11/09/2020
Sampling Location	From Pipe (STP Outlet)	Testing Location	Permanent Facility
Testing Protocol	MoEF/CPCB Guidelines	Period of Analysis	11/09/2020 To 19/09/2020
Sample Description	Liquid with suspended and settleable particles.		
Packing, Markings, Seal & Qty.	2 litre Plastic & 1 litre Glass Bottle Marked 'B/11/01'		

## RESULTS

### I- Chemical Testing

#### 1. Pollution & Environment (Sewage)

S.No.	Test Parameter	Unit	Result	Standard	Test Method
1	pH	-	7.63	6.5-9.0	IS:3025(P-11): 1983 RA 2017
2	Total Dissolved Solids	mg/l	560	-	IS:3025(P-16): 1984 RA 2017
3	Total Suspended Solids	mg/l	23	<100	IS: 3025(P-17): 1984 RA 2017
4	Biochemical Oxygen Demand (BOD)	mg/l	15	30	IS:3025(P -44):1993 RA 2019 BOD (3days)
5	Chemical Oxygen Demand (COD)	mg/l	60	250	IS:3025(P-58):2006 RA 2017
6	Oil & Grease	mg/l	BDL(DL 3)	10	IS:3025(P-39):1991 RA 2019

Remarks : Standard as per G.S.R 1265 (E) & EPA 1986 (Schedule-VI).

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

*Tau*  
Checked by QA

*R*  
Dr Rai Singh  
Authorized Signatory-Chemical



POLLUTION CONTROL BOARD VATAVARAN BHAVAN  
NABHA ROAD, PATIALA  
WATER ANALYSIS REPORT

E- 2020

- |  |  |
|--|--|
| 1. Laboratory Sample No.                       | E-2486/ H O Lab. Monitoring/2020                                 |
| 2. ULR No.                                     | ULR-TC70451800000002142P   |
| 3. Name of Industry                            | M/s Nabha Power Ltd, Village Nalash,<br>Rajpura. Distt. Patiala. |
| 4. Name of Sample collecting Officer           | Er. Navtresh Singla, AEE   |
| 5. Designation of the officer authorizing Test | Environmental Engineer, Regional Office, Patiala                 |
| 6. Type of Sample                              | Grab   |
| 7. Date & Time of Sample collection            | 09.06.2020 at 12.30 PM   |
| 8. Date & Time of Sample receipt in Lab.       | 10.06.2020   |
| 9. Period of Analysis                          | 10.06.2020 to 16.06.2020   |
| 10. Test Methods                               | As per relevant parts of IS:3025/Methods of APHA                 |

9/6  
16.03  
19/6/2020  
म:ह:सि:-1/2/3/S.A.  
नदी बाक  
+  
Check report

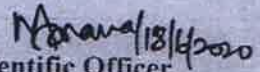
Results

Sr. No.	Parameters	Outlet of STP
1.	pH	6.85
2.	Total Suspended Solids mg/l	22
3.	Total Dissolved Solids mg/l	504
4.	Chemical Oxygen Demand mg/l	56
5.	Bio-chemical Oxygen Demand mg/l	14
6.	Oil & Grease	BDL

Note: BDL means below detection limit

  
Analyzed by

---End of Report---

  
Scientific Officer

Endst. No: 12991-92

Dt. 19-6-20

A copy of the above is forwarded to the:-

- 1 The Senior Environment Engineer, Punjab Pollution Control Board, Zonal Office-I, Patiala.
- 2 The Environment Engineer, Punjab Pollution Control Board, Regional Office, Patiala

  
Jr. Scientific Officer

# **Annexure-7**

## **Ground Water Quality Monitoring Results**

## TEST REPORT



Lab/32...  
Dated-30.09.2011

Not Valid for Consent Purpose



TC-7477

ULR No. : TC747720000001641F		Test Report No. : EL110920N'W004	
Type of Sample : Water (Ground Water)		Date of Reporting : 19/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patlala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:3025 (P-1)1987 RA2019	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	11/09/2020
Sampling Location	From Piezometer No.1	Testing Location	Permanent Facility
Testing Protocol	IS & APHA	Period of Analysis	11/09/2020 To 19/09/2020
Sample Description	Colourless liquid.		
Packing, Markings, Seal & Qty.	2 litre Plastic Bottle Marked 'B/11/02'		

## RESULTS

### I-Chemical Testing

#### 1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Test Method
1	pH	-	7.73	IS:3025(P-11): 1984RA2017
2	Total Dissolved Solids	mg/l	591	IS:3025(P-16):1984 RA2017
3	Sulphate	mg/l	45	IS:3025(P-24):1986 RA2019
4	Total hardness	mg/l	106	IS:3025(P-21) :2009 RA2019
5	Lead	mg/l	BDL(DL0.01)	APHA-23rd Ed 2017-3111B
6	Mercury	mg/l	BDL(DL0.0005)	APHA-23rd Ed 2017-3112B
7	Total arsenic		BDL(DL0.01)	APHA-23rd Ed 2017-3114C
8	Total chromium	mg/l	BDL(DL0.05)	APHA-23rd Ed 2017-3111B

Remarks : NA

### OTHER INFORMATION

Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

Checked by QA

Format No. F/7.8.2-W-01-18.06.20 Rev 05

Authorized Signatory-Chemical

Page No. 1/1



## TEST REPORT

PVCO-Ref. No. Lab/32-0992  
Dated-30.09.2011

Not Valid for Consent Purpose

ULR No. : NA		Test Report No. : EL110920NW004/A	
Type of Sample : Water (Ground Water)		Date of Reporting : 19/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:3025 (P-1)1987 RA2019	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	11/09/2020
Sampling Location	From Piezometer No.1	Testing Location	Permanent Facility
Testing Protocol	IS & APHA	Period of Analysis	11/09/2020 To 19/09/2020
Sample Description	Colourless liquid.		
Packing, Markings, Seal & Qty.	2 litre Plastic Bottle Marked 'B/11/02'		

## RESULTS

### I -Chemical Testing

#### 1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Test Method
1	Total Suspended Solids	mg/l	BDL(DL5)	APHA-23rd Ed 2017- 2540 D
2	Biochemical Oxygen Demand (BOD)	mg/l	BDL(DL2)	IS : 3025(P-44):1993 RA 2019 BOD 3-days at 27 °C
3	Chemical Oxygen Demand (COD)	mg/l	BDL(DL5)	IS:3025(P-58):2006 RA2017

Remarks : This test report is the part of Test Report No. EL110920NW004.

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

Checked by QA

Dr Rai Singh  
Authorized Signatory-Chemical

## TEST REPORT



TC-7477

HPCB-Ref. No. Lab/32/PTC/2020  
Dated 03/09/2020

Not Valid for Consent Purpose



<b>ULR No. :</b> TC747720000001642F		<b>Test Report No. :</b> EL110920NW005	
<b>Type of Sample :</b> Water (Ground Water)		<b>Date of Reporting :</b> 19/09/2020	
<b>Customer</b>	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	<b>Work Order No. &amp; Date</b>	NPL/47000-06931 Dt.: 18/09/2018
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS:3025 (P-1)1987 RA2019	<b>Mode of Collection of Sample</b>	Sampling by laboratory
<b>Date of Sampling</b>	11/09/2020	<b>Date of Receipt of Sample</b>	11/09/2020
<b>Sampling Location</b>	From Piezometer No. 2	<b>Testing Location</b>	Permanent Facility
<b>Testing Protocol</b>	IS & APHA	<b>Period of Analysis</b>	11/09/2020 To 19/09/2020
<b>Sample Description</b> Colourless liquid.			
<b>Packing, Markings, Seal &amp; Qty.</b>		2 litre Plastic Bottle Marked 'B/11/03'	

## RESULTS

### I-Chemical Testing

#### 1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Test Method
1	pH	-	7.63	IS:3025(P-11): 1984RA2017
2	Total Dissolved Solids	mg/l	611	IS:3025(P-16):1984 RA2017
3	Sulphate	mg/l	52	IS:3025(P-24):1986 RA2019
4	Total hardness	mg/l	110	IS:3025(P-21) :2009 RA2019
5	Lead	mg/l	BDL(DL0.01)	APHA-23rd Ed 2017-3111B
6	Mercury	mg/l	BDL(DL0.0005)	APHA-23rd Ed 2017-3112B
7	Total arsenic	mg/l	BDL(DL0.01)	APHA-23rd Ed 2017-3114C
8	Total chromium	mg/l	BDL(DL0.05)	APHA-23rd Ed 2017-3111B


Remarks : NA

### OTHER INFORMATION

**Abbreviation :** ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable  
**Terms & Conditions :** Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical



## TEST REPORT

*Not Valid for Consent Purpose*



Ref. No. Lab/323

Dated-30.09.2018

ULR No. : NA		Test Report No. : EL110920NW005/A	
Type of Sample : Water (Ground Water)		Date of Reporting : 19/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:3025 (P-1)1987 RA2019	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	11/09/2020
Sampling Location	From Piezometer No. 2	Testing Location	Permanent Facility
Testing Protocol	IS & APHA	Period of Analysis	11/09/2020 To 19/09/2020
Sample Description	Colourless liquid.		
Packing, Markings, Seal & Qty.	2 litre Plastic Bottle Marked 'B/11/03'		

## RESULTS

### I -Chemical Testing

#### 1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Test Method
1	Total Suspended Solids	mg/l	BDL(DL5)	APHA-23rd Ed 2017- 2540 D
2	Biochemical Oxygen Demand (BOD)	mg/l	BDL(DL2)	IS : 3025(P-44):1993 RA 2019 BOD 3-days at 27 °C
3	Chemical Oxygen Demand (COD)	mg/l	BDL(DL5)	IS:3025(P-58):2006 RA2017

Remarks : This test report is the part of Test Report No. EL110920NW005.

### OTHER INFORMATION

Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

**\*\*End of Report\*\***

*Tane*

Checked by QA

*Dr Rai Singh*

Dr Rai Singh  
Authorized Signatory-Chemical

## TEST REPORT

Not Valid for Consent Purpose



Sl. No. Lab/SL  
Dated-30.09.2011

ULR No. : NA		Test Report No. : EL110920NW002/A	
Type of Sample : Water (Ground Water)		Date of Reporting : 19/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:3025 (P-1)1987 RA2019	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	11/09/2020
Sampling Location	From Piezometer No. 3	Testing Location	Permanent Facility
Testing Protocol	IS & APHA	Period of Analysis	11/09/2020 To 19/09/2020
Sample Description	Colourless liquid.		
Packing, Markings, Seal & Qty.	2 litre Plastic Bottle Marked 'B/11/04'		

## RESULTS

### I -Chemical Testing

#### 1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Test Method
1	Total Suspended Solids	mg/l	BDL(DL5)	APHA-23rd Ed 2017- 2540 D
2	Biochemical Oxygen Demand (BOD)	mg/l	BDL(DL2)	IS : 3025(P-44):1993 RA 2019 BOD 3-days at 27 °C
3	Chemical Oxygen Demand (COD)	mg/l	BDL(DL5)	IS:3025(P-58):2006 RA2017

Remarks : This test report is the part of Test Report No. EL110920NW002.

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable  
Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

*Tare*  
Checked by QA

*B*  
Dr Rai Singh  
Authorized Signatory-Chemical

## TEST REPORT



FCB-Ref. No. Lab/32282.2  
Dated-20.09.2011

Not Valid for Consent Purpose



ULR No. : TC747720000001639F		Test Report No. : EL110920NW002	
Type of Sample : Water (Ground Water)		Date of Reporting : 19/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala, Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:3025 (P-1)1987 RA2019	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	11/09/2020
Sampling Location	From Piezometer No. 3	Testing Location	Permanent Facility
Testing Protocol	IS & APHA	Period of Analysis	11/09/2020 To 19/09/2020
Sample Description	Colourless liquid.		
Packing, Markings, Seal & Qty.	2 litre Plastic Bottle Marked 'B/11/04'		

## RESULTS

### I -Chemical Testing

#### 1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Test Method
1	pH	-	7.72	IS:3025(P-11): 1984RA2017
2	Total Dissolved Solids	mg/l	610	IS:3025(P-16):1984 RA2017
3	Sulphate	mg/l	39	IS:3025(P-24):1986 RA2019
4	Total hardness	mg/l	96	IS:3025(P-21) :2009 RA2019
5	Lead	mg/l	BDL(DL0.01)	APHA-23rd Ed 2017-3111B
6	Mercury	mg/l	BDL(DL0.0005)	APHA-23rd Ed 2017-3112B
7	Total arsenic	mg/l	BDL(DL0.01)	APHA-23rd Ed 2017-3114C
8	Total chromlum	mg/l	BDL(DL0.05)	APHA-23rd Ed 2017-3111B

Remarks : NA

### OTHER INFORMATION

Abbreviation :


ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

**\*\*End of Report\*\***

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical



## TEST REPORT



TC-7477



Ref. No. L18/32  
Dated: 30.09.2011

Not Valid for Consent Purpose

ULR No. : TC747720000001640F		Test Report No. : EL110920NW003	
Type of Sample : Water (Ground Water)		Date of Reporting : 19/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:3025 (P-1)1987 RA2019	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020	Date of Receipt of Sample	11/09/2020
Sampling Location	From Piezometer No.4	Testing Location	Permanent Facility
Testing Protocol	IS & APHA	Period of Analysis	11/09/2020 To 19/09/2020
Sample Description	Colourless liquid.		
Packing, Markings, Seal & Qty.	2 litre Plastic Bottle Marked 'B/11/05'		

## RESULTS

### I-Chemical Testing

#### 1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Test Method
1	pH	-	7.63	IS:3025(P-11): 1984RA2017
2	Total Dissolved Solids	mg/l	578	IS:3025(P-16):1984 RA2017
3	Sulphate	mg/l	55	IS:3025(P-24):1986 RA2019
4	Total hardness	mg/l	122	IS:3025(P-21) :2009 RA2019
5	Lead	mg/l	BDL(DL0.01)	APHA-23rd Ed 2017-3111B
6	Mercury	mg/l	BDL(DL0.0005)	APHA-23rd Ed 2017-3112B
7	Total arsenic	mg/l	BDL(DL0.01)	APHA-23rd Ed 2017-3114C
8	Total chromium	mg/l	BDL9DL0.050	APHA-23rd Ed 2017-3111B

Remarks : NA

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical





## TEST REPORT



Lab-Ref. No. Lab/32  
Dated-30.09.2011

Not Valid for Consent Purpose

<b>ULR No. :</b> NA	<b>Test Report No. :</b> EL110920NW003/A
<b>Type of Sample :</b> Water (Ground Water)	<b>Date of Reporting :</b> 19/09/2020
<b>Customer</b> Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	<b>Work Order No. &amp; Date</b> NPL/47000-06931 Dt.: 18/09/2018
	<b>Customer reference No. (If any)</b> NA
<b>Sampling Protocol</b> IS:3025 (P-1)1987 RA2019	<b>Mode of Collection of Sample</b> Sampling by laboratory
<b>Date of Sampling</b> 11/09/2020	<b>Date of Receipt of Sample</b> 11/09/2020
<b>Sampling Location</b> From Piezometer No.4	<b>Testing Location</b> Permanent Facility
<b>Testing Protocol</b> IS & APHA	<b>Period of Analysis</b> 11/09/2020 To 19/09/2020
<b>Sample Description</b> Colourless liquid.	
<b>Packing, Markings, Seal &amp; Qty.</b> 2 litre Plastic Bottle Marked 'B/11/05'	

### RESULTS

#### I -Chemical Testing

##### 1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Test Method
1	Total Suspended Solids	mg/l	BDL(DL5)	APHA-23rd Ed 2017- 2540 D
2	Biochemical Oxygen Demand (BOD)	mg/l	BDL(DL2)	IS : 3025(P-44):1993 RA 2019 BOD 3-days at 27 °C
3	Chemical Oxygen Demand (COD)	mg/l	BDL(DL5)	IS:3025(P-58):2006 RA2017

**Remarks :** This test report is the part of Test Report No. ELL110920NW003.

#### OTHER INFORMATION

**Abbreviation :** ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

**Terms & Conditions :** Please refer terms and conditions on backside of Test Report (Page-1)

**\*\*End of Report\*\***

*Tam*  
Checked by QA

*Dr Rai Singh*  
Authorized Signatory-Chemical

**POLLUTION CONTROL BOARD VATAVARAN BHAVAN,  
NABHA ROAD, PATIALA  
GROUND WATER REPORT**

1. Laboratory Sample No.
2. ULR Number
3. Name of Industry
4. Name of Sample collecting Officer
5. Designation of authorizing Test
6. Date & Time of Sample collection
7. Date & Time of Sample receipt in Lab.
8. Period of Analysis
9. Test Methods

GW 485-488/ H.O.Lab./ G.W. Monitoring/2020  
 ULR-TC704518000000002143P  
 Ground Water Samples taken from  
 M/s Nabha Power Limited, Vill. Nalas, Rajpura.  
 Er. Navtesh Singla, AEE  
 EE, RO, Patiala.  
 09.06.2020  
 10.06.2020  
 10.06.2020 to 22.06.2020  
 As per relevant parts of IS:3025 &  
 Methods of APHA

*Handwritten notes:*  
 Check report  
 Analysis changed  
 न.व.दि. 1/2/3/9.A  
 नवी काव  
 दि. 24/6/20  
 16.7.20

**Results**

Sr. no.	Parameters	Near Coal Handling Plant	Near Storm Water Sump	Along ash dyke	Between Ash dyke and reservoir
1	pH	7.2	7.0	7.0	7.1
2	Total Suspended Solids mg/l	BDL	BDL	BDL	BDL
3	Total Dissolved Solids mg/l	454	478	462	484
4	Chemical Oxygen Demand mg/l	BDL	BDL	BDL	BDL
5	Bio-Chemical Oxygen Demand mg/l	BDL	BDL	BDL	BDL
6	Total Hardness mg/l	91	115	96	116
7	Calcium Hardness mg/l	39	48	56	55
8	Magnesium Hardness mg/l	52	67	40	61
9	Magnesium mg/l	13	16	10	15
10	Total Alkalinity mg/l	332	340	348	324
11	Chloride mg/l	10	25	20	45
12	Sulphate mg/l	32	40	34	30
13	Mercury mg/l	BDL	BDL	BDL	BDL
14	Lead mg/l	BDL	BDL	BDL	BDL
15	Total Chromium mg/l	BDL	BDL	BDL	BDL

Note: BDL means Below Method Detection Limit.

--End of Report--

*Handwritten signature*  
 Analyzed by

*Handwritten signature*  
 Scientific Officer

Endst. No: 13496-97

Dt. 24/6/2020

A copy of the above is forwarded to the:-

1. The Senior Environment Engineer, Punjab Pollution Control Board, Zonal Office, -I, Patiala.
2. The Environment Engineer, Punjab Pollution Control Board, Regional Office, Patiala.

*Handwritten signature*  
 Asstt. Scientific Officer  
 23/6/2020

# **Annexure-8**

## **Green Belt Photographs**



## Annexure-8

NPL is having a complete dedicated team of skilled horticulturists for the forestation and greenery development program at our plant. A green belt of 2.50 lac plants are developed inside as well outside plant premises. Also small patches of gardens are developed inside of the plant premises wherever the open space is available to improve the plant beautification.



**Pic-1 Green belt around coal stockpile area**



**Pic-2 Green belt around plant premises**



**Pic-3 Green belt along boundary**



**Pic-4 Green belt on both sides of road**

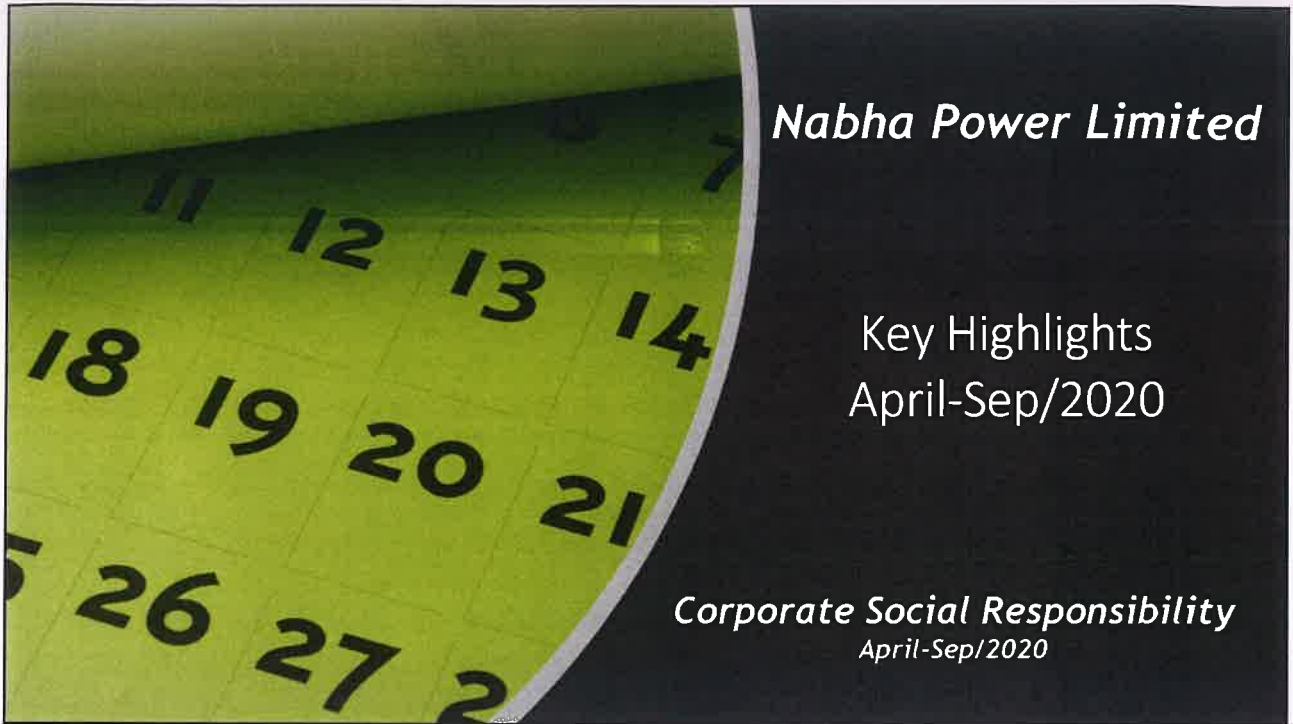


**Pic-5 Green belt area railway siding**



**Annexure-9**

**CSR Report**



1

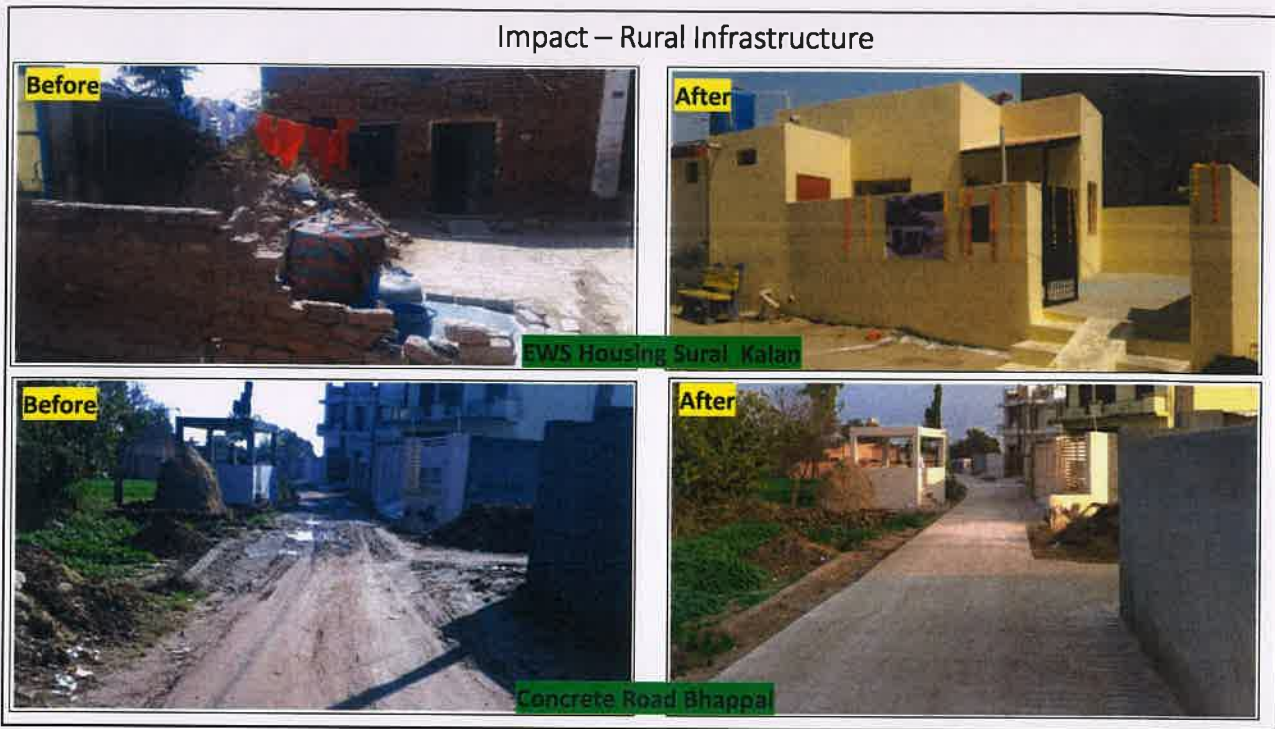
**Rural Development - Infrastructure**

**EWS Housing Sural Kalan**

**Concrete Road Bhappal**

**NPL handed over its ready projects of EWS Housing and Concrete road to Community people in the presence of respective Village Panchayat members of Vill. Sural Kalan and Bhappal .**

2



3



4





### Mask Distribution

- Supported the State Govt. Initiative "Mission Fateh" in combating the Covid-19, distribution of 3000 masks to Public in association with District Police.



5

### Media Coverage

## ਟ੍ਰੈਫਿਕ ਪੁਲਿਸ ਦੇ ਸਹਿਯੋਗ ਨਾਲ ਪਬਲਿਕ ਨੂੰ ਵੰਡੇ ਮਾਸਕ

ਰਾਜਪੁਰਾ/ਬੰਡੂ, 17 ਸਤੰਬਰ (ਸੁਖਦੇਵ): ਨਾਭਾ ਬਰਮਲ ਪਲਾਂਟ ਦੇ ਨਾਮ ਨਾਲ ਜਾਣਿਆ ਜਾਂਦਾ ਬਰਮਲ ਪਲਾਂਟ ਰਾਜਪੁਰਾ ਜਿਲ੍ਹਾ ਇਲਾਕੇ ਭਰ ਵਿੱਚ ਸਮਾਜ ਸੇਵਾ ਨੂੰ ਮੁੱਖ ਟਿੱਚਾ ਸਮਝ ਕੇ ਲੋਕਾਂ ਦੀ ਸੇਵਾ ਕਰਦਾ ਆ ਰਿਹਾ ਹੈ। ਅੱਜ ਬਰਮਲ ਪਲਾਂਟ ਦੀ ਸਮਾਜ ਸੇਵਾ ਟੀਮ ਗਗਨਦੀਪ ਸਿੰਘ ਅਤੇ ਉਹਨੇ ਸਹਿਯੋਗੀਆਂ ਨੇ ਟ੍ਰੈਫਿਕ ਪੁਲਿਸ ਰਾਜਪੁਰਾ ਦੇ ਨਾਲ ਮਿਲ ਕੇ ਕੋਰੋਨਾ ਵਾਈਰਸ ਸਮੁੱਚੇ ਲੋਕਾਂ ਨੂੰ ਇਸ ਬਿਮਾਰੀ ਤੋਂ ਨਿਜਾਤ ਦਿਵਾਉਣ ਲਈ ਇੱਕ ਹਜ਼ਾਰ ਦੇ ਕਰੀਬ ਮਾਸਕ ਵੰਡੇ ਅਤੇ ਵਹੀਕਲਾਂ ਨੂੰ ਰਿਵਲੈਕਟਰ ਵੀ ਲਗਾਏ। ਇਸ ਮੌਕੇ ਜਾਣਕਾਰੀ ਦਿੰਦਿਆਂ ਸਮਾਜ ਸੇਵਾ ਟੀਮ ਦੇ ਮੁੱਖੀ ਗਗਨਦੀਪ ਸਿੰਘ ਨੇ ਕਿਹਾ ਕਿ ਉਹਨਾਂ ਵਲੋਂ ਪਹਿਲਾਂ ਵੀ ਇਲਾਕੇ ਭਰ ਵਿੱਚ ਵਿਆਹ ਸ਼ਾਦੀਆਂ ਲਈ ਕਈ ਪਿੰਡਾਂ ਵਿੱਚ ਕਮਿਊਨਿਟੀ ਹਾਲ ਬਣਾਏ ਗਏ ਹਨ ਅਤੇ ਸਮਾਜ ਵਿੱਚ ਲੜਕੀਆਂ ਦੇ ਰੋਜ਼ਗਾਰ ਵਜੋਂ ਆਪਣੇ ਪੈਰਾਂ 'ਤੇ ਖੜਨ ਲਈ ਕਈ ਸਲਾਈ ਸੈਂਟਰ ਵੀ ਚੱਲ ਰਹੇ ਹਨ। ਉਸ ਲੜੀ ਤਹਿਤ ਮੌਕੇ ਟ੍ਰੈਫਿਕ ਇੰਚਾਰਜ ਜਜਵਿੰਦਰ ਸਿੰਘ, ਮਹਿੰਗਾ ਸਿੰਘ ਤੋਂ ਇਲਾਵਾ ਹੋਰ ਮੁਲਾਜ਼ਮ ਹਾਜ਼ਰ ਸਨ।

**ਚੜਦੀਕਲਾ** Fri, 18 September 2020 <https://charhdikala.timetv.n>

**ਧਰਮਲ ਪਲਾਂਟ ਨੇ ਸੀਚੇਗਲ ਦੀ ਟਰੱਕ ਪਰ ਚਾਘੜ ਦੇ ਪਾਣੀ ਨੂੰ ਸੁੱਕ ਕਰਨੇ ਕਾ ਲਗਾਏ ਪਲਾਂਟ**

ਗਾਓਂ ਦੇ ਚਾਘੜਾਂ ਦੀ ਸੰਚਾਲ ਆਰ ਪਾਣੀ ਨੂੰ ਸੁੱਕ ਕਰਨਾ ਸਮਝ ਦੀ ਜ਼ਰੂਰਤ

ਚਾਘੜਾਂ ਦੀ ਸੁੱਕ ਕਰਨੇ ਕਾ ਪਲਾਂਟ ਨੇ ਧਰਮਲ ਪਲਾਂਟ ਦੇ ਚਾਰਜਵਾਲੀ ਧਰਮ ( ਚਾਘੜ ) ਚਾਘੜ ਨੂੰ ਸੁੱਕ ਕਰਨੇ ਕਾ ਪਲਾਂਟ ਨੇ ਸ਼ੁਰੂ ਕਰ ਦਿੱਤਾ।

17 ਸਤੰਬਰ, 2020 ( ਚਾਰਡੀਕਲਾ ) ਚਾਘੜਾਂ ਦੀ ਸੁੱਕ ਕਰਨੇ ਕਾ ਪਲਾਂਟ ਨੇ ਧਰਮਲ ਪਲਾਂਟ ਦੇ ਚਾਰਜਵਾਲੀ ਧਰਮ ( ਚਾਘੜ ) ਚਾਘੜ ਨੂੰ ਸੁੱਕ ਕਰਨੇ ਕਾ ਪਲਾਂਟ ਨੇ ਸ਼ੁਰੂ ਕਰ ਦਿੱਤਾ।

ਚਾਘੜਾਂ ਦੀ ਸੁੱਕ ਕਰਨੇ ਕਾ ਪਲਾਂਟ ਨੇ ਧਰਮਲ ਪਲਾਂਟ ਦੇ ਚਾਰਜਵਾਲੀ ਧਰਮ ( ਚਾਘੜ ) ਚਾਘੜ ਨੂੰ ਸੁੱਕ ਕਰਨੇ ਕਾ ਪਲਾਂਟ ਨੇ ਸ਼ੁਰੂ ਕਰ ਦਿੱਤਾ।

6





## “Community Shed”

- NPL handed over Community shed to village residents of Jansui in presence of village panchayat and Sarpanchs of surrounding villages Niamatpur, Urdan, Jansua, Badal Colony and Mirzapur.



7

## Support to War Martyrs

- NPL recognized the sacrifice of Mandeep Singh & Salim Khan for the country and handed over of Cheques worth Rs.2 lacs each to their families.



8

## Covid-19

Distribution of Masks & Handwash to Health, Aganwari, Narega Workers

- Considering the health & hygiene of Narega workers who have been engaged by panchayats in cleaning of ponds/drains, NPL has supported 1000 Narega workers by providing them Masks & handwash.
- Health Workers/Aganwari workers who have been working as front line covid warriors to spread awareness against Corona Virus, Identifying the cases or suffering with symptoms , keeping record of travelers etc, NPL supported these workers by providing them face masks and hand sanitizers.



9

## Jute Bag Production

Jute centers at Nalash Khurd & Sindhran has been restored from 1<sup>st</sup> June. 23 artisans at Nalash & 16 students at Sindhran doing order work of vegetable bags.

An order of 610 Jute bags from CDPO, Patiala, 40 jute bags from Post office, Patiala delivered successfully. 1<sup>st</sup> lot of 400 out of 1500 vegetable bags has been delivered at NPL.

Formation of committee has been done at Nalash Jute center & they have been linked with NRLM, which will enable them to avail loan at lower interest rate for their business.

**Our Jute products have been uploaded on Aajeevika website. We have delivered retail order of 12 jute bags.**



Production of Jute Bags at Nalash Khurd



Delivery of 400 vegetable jute bags to NPL

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### Stitching & Beautician Center

All SDCs has been restored with MHA & Govt. of Punjab guidelines. 237 students has been joined back at skill centers.

To maintain social distancing, batches of students has been formed with maximum 10 Nos. of students at 1 time.

Students has been engaged in their routine syllabus & topic of the month activity.



Center's restored with MHA & Govt guidelines

Center's restored with MHA & Govt guidelines

11

### Embroidery & Phulkari Center

Embroidery & Phulkari center started at village Kotla from 1<sup>st</sup> June 2020.

25 students has been enrolled in the center.

Students are being trained in two batches by our Phulkari instructor.

Students are doing order work along with their training.



Embroidery & Phulkari center started from 1<sup>st</sup> June



12

GSB2

### Shagan & Female Child schemes

43 Nos. of cases received and verified

43 Cheque have been distributed

42 Nos of families benefitted

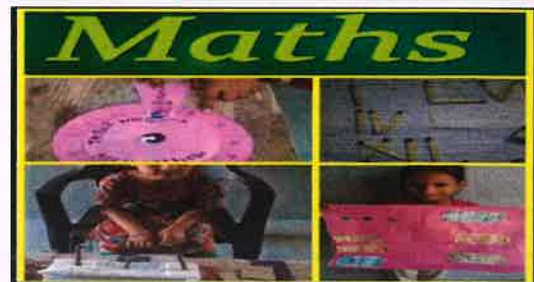
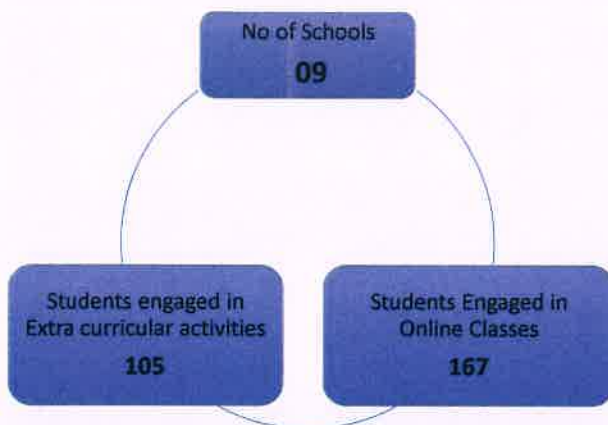
20 Nos of villages covered



13

### EDUCATION – LEARNING PROGRAM

During lockdown teachers are taking online Classes and conducting activities through online mode



14



### EDUCATION – LEARNING PROGRAM

All 10 NPL Teachers of learning program received appreciation letters by Block Education Officer on 9<sup>th</sup> Aug 2020 for their contribution to schools

Sukhwinder Kaur, a student from GPS Kharola secured 2<sup>nd</sup> position among students in entire Rajpura Block in a competition organized by DEO, Patiala.



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### EDUCATION – EXTRA CURRICULAR ACTIVITIES

Students have been engaged by teachers in weekly offline activities. Around 25 TLMs self developed by them.



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## CSR Media Coverage

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### CSR Media Coverage

#### नाभा पॉवर लिमिटेड द्वारा शहीद के परिवार को 2 लाख रुपए देने की घोषणा

पटियाला (परबीत) : राजपुरा स्थित नाभा पॉवर लिमिटेड ने शहीद नाथ सूर्यदेव मन्दीप सिंह के परिवार को 2 लाख रुपए देने की घोषणा की है। यह जानकारी कंपनी के प्रवक्ता जसकरण सिंह ने दी।

**पंजाब केशरी**  
ई-पेपर

Thu, 18 June 2020  
Edition: patiala kesari, Page no. 2

**थर्मल प्लांट मैनेजमेंट ने स्वास्थ्य विभाग की टीम को सैनिटाइजर, मास्क, दस्ताने और जरूरी सामान दिया**



गोंब ठगानी एवं धपला में जरूरी सामान मुहैया करवाते प्लांट के अधिकारी। साथ गांव के लोग।

**शहीदों की जसकरण सिंह, बलविंदर सिंह ने बताया कि कंपनी के प्रवक्ता जसकरण सिंह के निर्देश पर थर्मल प्लांट के लगेत आसपास के 50 के करीब गांवों को गैर-सुरक्षित क्षेत्र है। इस गांव मनदीप सिंह, ललित कुमार, बलविंदर सिंह नयन, सखीबीत सिंह रियांन व गांवों के अन्य-सुरक्षित मौजूद थे।**

अन्य जरूरी सामान मुहैया करवाया गया। गोंब ठगानी में आयोजित एक समारोह में 61 के करीब आंगनवाड़ी वर्कर, 116 के करीब आंगनवाड़ी हेल्पर और 5 गांवों में एक दर्जन के करीब डिस्पेंसरी में काम करने वाले स्वास्थ्य कर्मियों को सामान मुहैया कराया गया। अधिकारी-मनदीप सिंह आकाश व

### थर्मल प्लांट राजपुरा ने नरेंगा वरकरां नुं साबटां अउं मासक देउं



#### पंजाब टाइम्स | खबर

राजपुरा, 18 जून (दरिया सिंघ)-करोना वाइरस दा प्रकृप दिने-दिन वय गिरा हे इस तें बचाव दे लई नाडा पावर लिमिटेड(थर्मल प्लांट राजपुरा) बल प्लांट दे मुधी धी अघर बाराब जी दी अगवाही हेन प्लांट दे नाल लगदे पिडां विच 1000 दे करीब नरेंगा वरकरां नुं मासक अउं साबटां दिउं गऐ। प्लांट दे अधिकारी जसकरण सिंघ अउं गगनदीप सिंघ बानवा नुं दसिया कि नरेंगा वरकर गरीब

परिवारां दे नाल सषेप रंघदे हेन अउं जे कि टैबिया आदि दी सवाही विच बडें पंघर तें लगे हेदे हेन इना वरकरां नुं करेना वाइरस पूडी नारसूक करन दे नाल-नाल खद दे बचाव लई साबटां अउं मासक बी दिउं जे रहे हेन तां जे इह नरेंगा वरकर उंदरुसत रहित अउं सुरक्षित गलाता विच आपटा केमकार कर सकत इस मेके प्लांट तें मनपूत सिंघ, ललित कुमार, बलविंदर सिंघ नेटा, सरबजीत सिंघ रंगीआं अउं अभिजपाल सिंघ गजरा सन।

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# **Annexure-10**

## **Ambient Air Quality Monitoring Results**

## TEST REPORT



Not Valid for Consent Purpose



<b>ULR No. :</b> TC747720000001698F		<b>Test Report No. :</b> EL140920NA003	
<b>Type of Sample :</b> Ambient Air Quality		<b>Date of Reporting :</b> 21/09/2020	
<b>Customer</b>	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	<b>Work Order No. &amp; Date</b>	NPL/47000-06931 Dt.: 18/09/2018
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Mode of Collection of Sample</b>	Sampling by laboratory
<b>Date of Sampling</b>	11/09/2020 To 12/09/2020	<b>Date of Receipt of Sample</b>	14/09/2020
<b>Sampling Location</b>	VIII. Dabhall	<b>Period of Analysis</b>	14/09/2020 To 21/09/2020
<b>Testing Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Environmental Conditions</b>	Clear Sky
<b>Testing Location</b>	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameters	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	70	100	IS: 5182 (Part-23) : 2006, RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	38	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	12	80	IS: 5182 (Part-2) : 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	28	80	IS: 5182 (Part-6) : 2006, RA 2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	16	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	24	180	IS: 5182 (Part-9) : 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.61	04	IS: 5182 (Part-10) :1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL (DL 0.04)	01	IS: 5182 (Part-22) : 2004, RA 2014
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzo-a-Pyrene {as B(a)P}, Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS: 5182 (Part-12) : 2004, RA 2014


Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical

## TEST REPORT



Ref. No. Lab/32/2020  
Dated-30.09.2021

*Not Valid for Consent Purpose*

<b>ULR No. :</b> NA		<b>Test Report No. :</b> EL140920NA003/A	
<b>Type of Sample :</b> Ambient Air Quality		<b>Date of Reporting :</b> 21/09/2020	
<b>Customer</b>	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	<b>Work Order No. &amp; Date</b>	NPL/47000-06931 Dt.: 18/09/2018
		<b>Customer reference No. (if any)</b>	NA
<b>Sampling Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Mode of Collection of Sample</b>	Sampling by laboratory
<b>Date of Sampling</b>	11/09/2020 To 12/09/2020	<b>Date of Receipt of Sample</b>	14/09/2020
<b>Sampling Location</b>	VIII. Dabhali	<b>Period of Analysis</b>	14/09/2020 To 21/09/2020
<b>Testing Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Environmental Conditions</b>	Clear Sky
<b>Testing Location</b>	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS: 5182 (Part-11) : 2006, RA 2017
2	Mercury (as Hg)	µg/m <sup>3</sup>	BDL (DL 0.1)	--	USEPA Method-IO 3.4

**Remarks :** This test report is the part of Test Report No. EL140920NA003.

#### OTHER INFORMATION

**Abbreviation :**

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

**Terms & Conditions :**

Please refer terms and conditions on backside of Test Report (Page-1)

**\*\*End of Report\*\***

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical



## TEST REPORT

Not Valid for Consent Purpose



TC-7477

ULR No. : TC74772000001700F		Test Report No. : EL140920NA004	
Type of Sample : Ambient Air Quality		Date of Reporting : 21/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020 To 12/09/2020	Date of Receipt of Sample	14/09/2020
Sampling Location	VIII. Dadumajra	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Clear Sky
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameters	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	75	100	IS: 5182 (Part-23) : 2006, RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	43	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	9	80	IS: 5182 (Part-2) : 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	23	80	IS: 5182 (Part-6) : 2006, RA 2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	23	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	23	180	IS: 5182 (Part-9) : 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.69	04	IS: 5182 (Part-10) :1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL (DL 0.04)	01	IS: 5182 (Part-22) : 2004, RA 2014
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS: 5182 (Part-12) : 2004, RA 2014

Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

↓  
Tans  
Checked by QA

Dr Rai Singh  
Authorized Signatory-Chemical



## TEST REPORT

Not Valid for Consent Purpose



Lab-Ref. No. Lab/32301  
Dated-30.09.2011

ULR No. : NA		Test Report No. : EL140920NA004/A	
Type of Sample : Ambient Air Quality		Date of Reporting : 21/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020 To 12/09/2020	Date of Receipt of Sample	14/09/2020
Sampling Location	Vill. Dadumajra	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Clear Sky
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Benzene (as C6H6)	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS: 5182 (Part-11) : 2006, RA 2017
2	Mercury (as Hg)	µg/m <sup>3</sup>	BDL (DL 0.1)	—	USEPA Method-IO 3.4

Remarks : This report is the part of Test Report No. EL140920NA004.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

Checked by QA

Dr Rai Singh  
Authorized Signatory-Chemical

## TEST REPORT



TC-7477

Not Valid for Consent Purpose



ULR No. : TC74772000001701F		Test Report No. : EL140920NA005	
Type of Sample : Ambient Air Quality		Date of Reporting : 21/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (if any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	11/09/2020 To 12/09/2020	Date of Receipt of Sample	14/09/2020
Sampling Location	VIII. Salempur	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Clear Sky
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameters	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	77	100	IS: 5182 (Part-23) : 2006, RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	44	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	11	80	IS: 5182 (Part-2) : 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	26	80	IS: 5182 (Part-6) : 2006, RA 2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	24	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	27	180	IS: 5182 (Part-9) : 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.65	04	IS: 5182 (Part-10) :1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL (DL 0.04)	01	IS: 5182 (Part-22) : 2004, RA 2014
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzo-a-Pyrene {as B(a)P}, Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS: 5182 (Part-12) : 2004, RA 2014

Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

*Taus*  
Checked by QA

*Dr Rai Singh*  
Dr Rai Singh  
Authorized Signatory-Chemical

## TEST REPORT



FPCB-Ref. No. Lab/32-...  
Dated: 30.09.2011

Not Valid for Consent Purpose

<b>ULR No. :</b> NA		<b>Test Report No. :</b> EL140920NA005/A	
<b>Type of Sample :</b> Ambient Air Quality		<b>Date of Reporting :</b> 21/09/2020	
<b>Customer</b>	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	<b>Work Order No. &amp; Date</b>	NPL/47000-06931 Dt.: 18/09/2018
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Mode of Collection of Sample</b>	Sampling by laboratory
<b>Date of Sampling</b>	11/09/2020 To 12/09/2020	<b>Date of Receipt of Sample</b>	14/09/2020
<b>Sampling Location</b>	Vill. Salempur	<b>Period of Analysis</b>	14/09/2020 To 21/09/2020
<b>Testing Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Environmental Conditions</b>	Clear Sky
<b>Testing Location</b>	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Benzene (as C6H6)	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS: 5182 (Part-11) : 2006, RA 2017
2	Mercury (as Hg)	µg/m <sup>3</sup>	BDL (DL 0.1)	—	USEPA Method-IO 3.4

**Remarks :** This test report is the part of Test Report No. EL140920NA005.


#### OTHER INFORMATION

**Abbreviation :** ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

**Terms & Conditions :** Please refer terms and conditions on backside of Test Report (Page-1)

**\*\*End of Report\*\***

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical



## TEST REPORT



Not Valid for Consent Purpose

<b>ULR No. :</b> TC747720000001703F		<b>Test Report No. :</b> EL140920NA007	
<b>Type of Sample :</b> Ambient Air Quality		<b>Date of Reporting :</b> 21/09/2020	
<b>Customer</b>	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	<b>Work Order No. &amp; Date</b>	NPL/47000-06931 Dt.: 18/09/2018
		<b>Customer reference No. (if any)</b>	NA
<b>Sampling Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Mode of Collection of Sample</b>	Sampling by laboratory
<b>Date of Sampling</b>	10/09/2020 To 11/09/2020	<b>Date of Receipt of Sample</b>	14/09/2020
<b>Sampling Location</b>	Near NDCT	<b>Period of Analysis</b>	14/09/2020 To 21/09/2020
<b>Testing Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Environmental Conditions</b>	Clear Sky
<b>Testing Location</b>	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameters	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	72	100	IS: 5182 (Part-23) : 2006, RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	40	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	12	80	IS: 5182 (Part-2) : 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	25	80	IS: 5182 (Part-6) : 2006, RA 2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	18	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	25	180	IS: 5182 (Part-9) : 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.68	04	IS: 5182 (Part-10) :1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL(DL 0.04)	01	IS: 5182 (Part-22) : 2004, RA 2014
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS: 5182 (Part-12) : 2004, RA 2014


Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical



## TEST REPORT



Ref. No. Lab/32...  
Date: 21/09/2020

Not Valid for Consent Purpose

ULR No. : NA		Test Report No. : EL140920NA007/A	
Type of Sample : Ambient Air Quality		Date of Reporting : 21/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (if any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	10/09/2020 To 11/09/2020	Date of Receipt of Sample	14/09/2020
Sampling Location	Near NDCT	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Clear Sky
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS: 5182 (Part-11) : 2006, RA 2017
2	Mercury (as Hg)	µg/m <sup>3</sup>	BDL (DL 0.1)	--	USEPA Method-IO 3.4

Remarks : This test report is the part of Test Report No. EL140920NA007.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

Checked by QA  
*Tany*

Dr. Raj Singh  
Authorized Signatory-Chemical

## TEST REPORT



Lab No. Lab/32  
Issued-20.09.2018

Valid for Consent Purpose



TC-7477

ULR No. : TC747720000001704F		Test Report No. : EL140920NA008	
Type of Sample : Ambient Air Quality		Date of Reporting : 21/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	10/09/2020 To 11/09/2020	Date of Receipt of Sample	14/09/2020
Sampling Location	Near Loco Shed	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Clear Sky
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameters	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	79	100	IS: 5182 (Part-23) : 2006, RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	47	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	13	80	IS: 5182 (Part-2) : 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	26	80	IS: 5182 (Part-6) : 2006, RA 2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	22	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	24	180	IS: 5182 (Part-9) : 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.64	04	IS: 5182 (Part-10) :1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL(DL 0.04)	01	IS: 5182 (Part-22) : 2004, RA 2014
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS: 5182 (Part-12) : 2004, RA 2014

Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical

## TEST REPORT



Lab No. Lab/32  
Dated 20.09.2020

Valid for Consent Purpose

ULR No. : NA		Test Report No. : EL140920NA008/A	
Type of Sample : Ambient Air Quality		Date of Reporting : 21/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	10/09/2020 To 11/09/2020	Date of Receipt of Sample	14/09/2020
Sampling Location	Near Loco Shed	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Clear Sky
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Benzene (as C6H6)	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS: 5182 (Part-11) : 2006, RA 2017
2	Mercury (as Hg)	µg/m <sup>3</sup>	BDL (DL 0.1)	—	USEPA Method-IO 3.4

Remarks : This report is the part of the Test Report No. EL140920NA008.

#### OTHER INFORMATION

##### Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

##### Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical



## TEST REPORT



Not Valid for Consent Purpose



<b>ULR No. :</b> TC747720000001702F		<b>Test Report No. :</b> EL140920NA006	
<b>Type of Sample :</b> Ambient Air Quality		<b>Date of Reporting :</b> 21/09/2020	
<b>Customer</b>	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	<b>Work Order No. &amp; Date</b>	NPL/47000-06931 Dt.: 18/09/2018
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Mode of Collection of Sample</b>	Sampling by laboratory
<b>Date of Sampling</b>	10/09/2020 To 11/09/2020	<b>Date of Receipt of Sample</b>	14/09/2020
<b>Sampling Location</b>	Near Storm Water Sump	<b>Period of Analysis</b>	14/09/2020 To 21/09/2020
<b>Testing Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Environmental Conditions</b>	Clear Sky
<b>Testing Location</b>	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameters	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	75	100	IS: 5182 (Part-23) : 2006, RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	42	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	10	80	IS: 5182 (Part-2) : 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	23	80	IS: 5182 (Part-6) : 2006, RA 2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	19	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	26	180	IS: 5182 (Part-9) : 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.73	04	IS: 5182 (Part-10) :1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL (DL 0.04)	01	IS: 5182 (Part-22) : 2004, RA 2014
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS: 5182 (Part-12) : 2004, RA 2014

Remarks : NA

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical

## TEST REPORT



Lab. No. Lab/322  
Date: 30.09.2011

Not Valid for Consent Purpose

<b>ULR No. :</b> NA		<b>Test Report No. :</b> EL140920NA006/A	
<b>Type of Sample :</b> Ambient Air Quality		<b>Date of Reporting :</b> 21/09/2020	
<b>Customer</b>	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	<b>Work Order No. &amp; Date</b>	NPL/47000-06931 Dt.: 18/09/2018
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Mode of Collection of Sample</b>	Sampling by laboratory
<b>Date of Sampling</b>	10/09/2020 To 11/09/2020	<b>Date of Receipt of Sample</b>	14/09/2020
<b>Sampling Location</b>	Near Storm Water Sump	<b>Period of Analysis</b>	14/09/2020 To 21/09/2020
<b>Testing Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Environmental Conditions</b>	Clear Sky
<b>Testing Location</b>	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Benzene (as C6H6)	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS: 5182 (Part-11) : 2006, RA 2017
2	Mercury (as Hg)	µg/m <sup>3</sup>	BDL (DL 0.1)	--	USEPA Method-IO 3.4

**Remarks :** This test report is the part of Test Report No. EL140920NA006.


#### OTHER INFORMATION

**Abbreviation :** ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

**Terms & Conditions :** Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical

## TEST REPORT

Not Valid for Consent Purpose



Lab No. Lab/327  
dated-30.09.2011

<b>ULR No. :</b> TC747720000001705F		<b>Test Report No. :</b> EL140920NA009	
<b>Type of Sample :</b> Ambient Air Quality		<b>Date of Reporting :</b> 21/09/2020	
<b>Customer</b>	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	<b>Work Order No. &amp; Date</b>	NPL/47000-06931 Dt.: 18/09/2018
		<b>Customer reference No. (If any)</b>	NA
<b>Sampling Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Mode of Collection of Sample</b>	Sampling by laboratory
<b>Date of Sampling</b>	10/09/2020 To 11/09/2020	<b>Date of Receipt of Sample</b>	14/09/2020
<b>Sampling Location</b>	Near Switch Yard	<b>Period of Analysis</b>	14/09/2020 To 21/09/2020
<b>Testing Protocol</b>	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	<b>Environmental Conditions</b>	Clear Sky
<b>Testing Location</b>	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameters	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	72	100	IS: 5182 (Part-23) : 2006, RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	40	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO2)	µg/m <sup>3</sup>	13	80	IS: 5182 (Part-2) : 2001, RA 2017
4	Nitrogen Dioxide (as NO2)	µg/m <sup>3</sup>	27	80	IS: 5182 (Part-6) : 2006, RA 2017
5	Ammonia (as NH3)	µg/m <sup>3</sup>	18	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O3)	µg/m <sup>3</sup>	28	180	IS: 5182 (Part-9) : 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.71	04	IS: 5182 (Part-10) :1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL(DL 0.04)	01	IS: 5182 (Part-22) : 2004, RA 2014
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS: 5182 (Part-12) : 2004, RA 2014

Remarks : NA

### OTHER INFORMATION

**Abbreviation :** ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

**Terms & Conditions :** Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

*Tare*  
Checked by QA

*Dr Rai Singh*  
Dr Rai Singh  
Authorized Signatory-Chemical



## TEST REPORT



Ref. No. Lab/3232702  
Date: 30.09.2011

*Not Valid for Consent Purpose*

ULR No. : NA		Test Report No. : EL140920NA009/A	
Type of Sample : Ambient Air Quality		Date of Reporting : 21/09/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patlala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	10/09/2020 To 11/09/2020	Date of Receipt of Sample	14/09/2020
Sampling Location	Near Switch Yard	Period of Analysis	14/09/2020 To 21/09/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Clear Sky
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Benzene (as C6H6)	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS: 5182 (Part-11) : 2006, RA 2017
2	Mercury (as Hg)	µg/m <sup>3</sup>	BDL (DL 0.1)	--	USEPA Method-IO 3.4

Remarks : This test report is the part of the Test Report No. EL140920NA009.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

**\*\*End of Report\*\***

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Authorized Signatory-Chemical

Page No. 1/1



# Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



[A Govt. Approved, ISO 9001:2015, 14001 & 45001: 2018 certified & Approved by MOEF, PPCB]



Ref. No. Lab/3238892  
Dated-30.09.2011

## TEST REPORT

Valid for Consent Purpose

ULR No. :	NA	Test Report No. :	EL270620GA010
Type of Sample :	Ambient Air Quality	Date of Reporting :	30/06/2020
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	-
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines(NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	24/06/2020 To 25/06/2020	Date of Receipt of Sample	27/06/2020
Sampling Location	VIII. Salempur	Period of Analysis	27/06/2020 To 30/06/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Cloudy Weather
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	67	100	IS 5182 : Part-23: 2006 RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	36	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	8	80	IS 5182 : Part-2: 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	17	80	IS 5182: Part-6: 2006 RA2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	20	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	16	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.64	04	IS 5182 Part-10:1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL (DL 0.04)	01	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS 5182 Part-11: 2006 (RA 2017)
12	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS 5182 Part-12: 2004 RA 2014

Remarks : Drizzling for approx. 4 hours.

### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

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Dr Rai Singh  
Authorized Signatory-Chemical





# Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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PPCB-Ref. No. Lab/3238892

## TEST REPORT

Dated-30.09.2011

Not Valid for Consent Purpose

ULR No. : NA	Test Report No. : EL270620GA009
Type of Sample : Ambient Air Quality	Date of Reporting : 30/06/2020
Customer Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date NPL/47000-06931 Dt.: 18/09/2018
	Customer reference No. (If any)
Sampling Protocol IS: 5182 (P-14) 2000, CPCB Guidelines(NAAQMS/36/2012-13)	Mode of Collection of Sample Sampling by laboratory
Date of Sampling 24/06/2020 To 25/06/2020	Date of Receipt of Sample 27/06/2020
Sampling Location Vill.Dadumajra	Period of Analysis 27/06/2020 To 30/06/2020
Testing Protocol IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions Cloudy Weather
Testing Location Site Testing & Permanent Facility	

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m3	66	100	IS 5182 : Part-23: 2006 RA 2017
2	Particulate Matter (as PM2.5)	µg/m3	34	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO2)	µg/m3	7	80	IS 5182 : Part-2: 2001, RA 2017
4	Nitrogen Dioxide (as NO2)	µg/m3	19	80	IS 5182: Part-6: 2006 RA2017
5	Ammonia (as NH3)	µg/m3	22	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O3)	µg/m3	18	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m3	0.60	04	IS 5182 Part-10:1999, RA 2014
8	Lead (as Pb)	µg/m3	BDL (DL 0.04)	01	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (as As)	ng/m3	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m3	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (as C6H6)	µg/m3	BDL (DL 5.0)	05	IS 5182 Part-11: 2006 (RA 2017)
12	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m3	BDL (DL 1.0)	01	IS 5182 Part-12: 2004 RA 2014

Remarks : Drizzling for approx. 4 hours.

#### OTHER INFORMATION

#### Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

#### Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

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Page No. 1/

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PPCB-Ref. No. Lab/3238892  
Dated-30.09.2011

## TEST REPORT

Not Valid for Consent Purpose

ULR No. : NA		Test Report No. : EL270620GA008	
Type of Sample : Ambient Air Quality		Date of Reporting : 30/06/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	-
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines(NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	24/06/2020 To 25/06/2020	Date of Receipt of Sample	27/06/2020
Sampling Location	Vill. Dabhali	Period of Analysis	27/06/2020 To 30/06/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Cloudy Weather
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air) -

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	64	100	IS: 5182 (Part-23) : 2006, RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	33	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	9	80	IS: 5182 (Part-2) : 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	19	80	IS: 5182 (Part-6) : 2006, RA 2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	21	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	15	180	IS: 5182 (Part-9) : 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.56	04	IS: 5182 (Part-10) :1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL(DL 0.04)	01	IS: 5182 (Part-22) : 2004, RA 2014
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL(DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL(DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL(DL 5.0)	05	IS: 5182 (Part-11) : 2006, RA 2017
12	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL(DL 1.0)	01	IS: 5182 (Part-12) : 2004, RA 2014

Remarks : Drizzling for approx. 4hours.

#### OTHER INFORMATION

#### Abbreviation :

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

#### Terms & Conditions :

Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

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Dr Rai Singh  
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# Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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Ref. No. Lab/3233892  
Dated-30.09.2011

## TEST REPORT

Not Valid for Consent Purpose

ULR No. : NA		Test Report No. : EL270620GA007	
Type of Sample : Ambient Air Quality		Date of Reporting : 30/06/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (if any)	-
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines(NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	24/06/2020 To 25/06/2020	Date of Receipt of Sample	27/06/2020
Sampling Location	Near Switch Yard	Period of Analysis	27/06/2020 To 30/06/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Cloudy Weather
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	66	100	IS: 5182 (Part-23) : 2006, RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	35	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	9	80	IS: 5182 (Part-2) : 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	20	80	IS: 5182 (Part-6) : 2006, RA 2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	19	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	17	180	IS: 5182 (Part-9) : 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.58	04	IS: 5182 (Part-10) : 1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL(DL 0.04)	01	IS: 5182 (Part-22) : 2004, RA 2014
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL(DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL(DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL(DL 5.0)	05	IS: 5182 (Part-11) : 2006, RA 2017
12	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL(DL 1.0)	01	IS: 5182 (Part-12) : 2004, RA 2014

Remarks : Drizzling for approx. 4hours.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

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Dr Rai Singh  
Authorized Signatory-Chemical

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PPCB-Ref. No. Lab/3238892  
Dated: 20/09/2018

## TEST REPORT

*Not Valid for Consent Purpose*

ULR No. : NA		Test Report No. : EL270620GA005	
Type of Sample : Ambient Air Quality		Date of Reporting : 30/06/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	-
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines(NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	24/06/2020 To 25/06/2020	Date of Receipt of Sample	27/06/2020
Sampling Location	Near NDCT	Period of Analysis	27/06/2020 To 30/06/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Cloudy Weather
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	69	100	IS 5182 : Part-23: 2006 RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	38	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	11	80	IS 5182 : Part-2: 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	25	80	IS 5182: Part-6: 2006 RA2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	21	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	18	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.61	04	IS 5182 Part-10:1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL (DL 0.04)	01	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS 5182 Part-11: 2006 (RA 2017)
12	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS 5182 Part-12: 2004 RA 2014

Remarks : Drizzling for approx. 4 hours.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

**\*\*End of Report\*\***

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Checked by QA

*Rai Singh*  
Dr Rai Singh  
Authorized Signatory-Chemical





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CIN : U74140PB2011PTC034739



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PPCB-Ref. No. Lab/3238892

## TEST REPORT

Dated-30.09.2011

Not Valid for Consent Purpose

ULR No. : NA		Test Report No. : EL270620GA006	
Type of Sample : Ambient Air Quality		Date of Reporting : 30/06/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	-
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines(NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	24/06/2020 To 25/06/2020	Date of Receipt of Sample	27/06/2020
Sampling Location	Near Storm Water Sump	Period of Analysis	27/06/2020 To 30/06/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Cloudy Weather
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	61	100	IS 5182 : Part-23: 2006 RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	30	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	8	80	IS 5182 : Part-2: 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	18	80	IS 5182: Part-6: 2006 RA2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	20	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	17	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.55	04	IS 5182 Part-10:1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL (DL 0.04)	01	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS 5182 Part-11: 2006 (RA 2017)
12	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS 5182 Part-12: 2004 RA 2014

Remarks : Drizzling for approx. 4 hours.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

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*Dr Rai Singh*  
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PPCB-Ref. No. Lab/3238892  
Dated-30.09.2011

## TEST REPORT

Not Valid for Consent Purpose

ULR No. : NA		Test Report No. : EL270620GA011	
Type of Sample : Ambient Air Quality		Date of Reporting : 30/06/2020	
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala , Rajpura-140101	Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018
		Customer reference No. (If any)	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines(NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	24/06/2020 To 25/06/2020	Date of Receipt of Sample	27/06/2020
Sampling Location	Near Loco Shed	Period of Analysis	27/06/2020 To 30/06/2020
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Cloudy Weather
Testing Location	Site Testing & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	71	100	IS 5182 : Part-23: 2006 RA 2017
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	39	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	10	80	IS 5182 : Part-2: 2001, RA 2017
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	22	80	IS 5182: Part-6: 2006 RA2017
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	20	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	19	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (as CO)	mg/m <sup>3</sup>	0.63	04	IS 5182 Part-10:1999, RA 2014
8	Lead (as Pb)	µg/m <sup>3</sup>	BDL (DL 0.04)	01	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (as As)	ng/m <sup>3</sup>	BDL (DL 1.0)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (as Ni)	ng/m <sup>3</sup>	BDL (DL 10.0)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL (DL 5.0)	05	IS 5182 Part-11: 2006 (RA 2017)
12	Benzo-a-Pyrene (as B(a)P), Particulate Phase Only	ng/m <sup>3</sup>	BDL (DL 1.0)	01	IS 5182 Part-12: 2004 RA 2014

Remarks : Drizzling for approx. 4 hours.

#### OTHER INFORMATION

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

\*\*End of Report\*\*

  
Checked by QA

  
Dr Rai Singh  
Authorized Signatory-Chemical