

lecin 10/11/2019 /50/

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NPL/MoEF/EC/Nov/ 14

Date:09 .12.2019

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 3rd October 2008 and as Amended on dated 15th November 2010.

Sub: Half-Yearly Environment Clearance Compliance Report for the Period of 1st April 2019 to 30th September 2019.

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 2019 to 30th September 2019.

Thanking You,

Yours Sincerely.

For Nabha Power Limited

(Rajiv Bhandari)
DGM-HSE

Encl: As above.

Cc: (i) The Executive Environment Engineer, Regional Office, Patiala, Ground Floor, Vatavaran Bhawan, Nabha Road, Patiala.

(ii) In-charge-Central Pollution Control Board, Zonal Office (North) PICUP Bhawan Vibhuti Khand, Gomti Nagar, Lucknow (UP) - 226 010



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

Regional Office (Northern Region)
Chandigarh-160030

Central Pollution Control Board, Lucknow Punjab State Pollution Control Board, Patiala

Submitted By:

NABHA POWER LIMITED VILL. NALASH

PATIALA (PUNJAB)

Period: April-2019 to September-2019



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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.

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



Project Proponent Project Status

: Nabha Power Ltd.

: 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 3rd October 2008 and Amendment dated 15th November 2010.

COMPLIANCE REPORT FOR THE PERIOD OF April-2019 to Sept.-2019

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 25th May, 2009, Ref No.:No. 21(7)/2008/D(Coord) & 22nd 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 Annexure 1 & 2 .
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 Annexure-3 .
5.	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure particulate emission doesn't exceed 50 mg/m³.	The ESP's attached to Boiler 1 & 2 are functional and have efficiencies more than 99.99%. The SPM emissions are < 50 mg/Nm³. The stack Emission Monitoring Reports from MoEF & CC approved laboratory is attached here as Annexure-3
6.	Space provision shall be kept for retrofitting for FGD, if required at later date.	Space provision for FGD had already been earmarked
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 suppress (water sprinklers) is operational in the coal handling and at all transfer points. The photograph of the same is attached here as Annexure-4	
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 Regiona Office, PPCB and MoEF&CC on six monthly basis. However, the same is attached here as Annexure-5 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 micror 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 confirming 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 bel development/Plantation. The treated effluent report is attached as Annexure-6
13.	Rain water harvesting should be adopted. Central Ground Water Authority/board shall be consulted for finalization of appropriate rain water harvesting technology with in 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: 28th June 2012 have beer implemented to check/minimize spontaneous fire in coa 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 labou such as toilets, STP, safe drinking water, medical health care etc.
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 and off-site disaster management plan is prepared, and the adequact 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. Lates reports are attached as Annexure-7
18.	A green belt of adequate width and density shall be developed around plant periphery covering about 1/3 rd of project area preferably with local species.	2.5 Lakh trees already planted @2500/ha with local species. The Green Belt Development Report is attached a Annexure-8
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. 84.29 lacs have been spent till 30 Sep 2019 agains the set target of Rs.4.40. Major works are in progress and will be completed within stipulated time. Details is attached as Annexure-9 .
20.	First aid & sanitation arrangement shall be made for the drivers and other contract workers during construction phase.	First aid centre & adequate sanitation arrangement for the drivers and other contract workers are in place.
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 maintain audiometry record and for any hearing loss including shifting to non-noisy/less noisy areas.	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.

22.	Regular monitoring of ground level concentration of SO ₂ , NOx, SPM, RSPM and Hg shall be carried out in	Monitoring reports are regularly being submitted to Regional office of Ministry and PPCB. Latest report are
	the impact zone and records maintained. If at any stage these levels are found to exceed prescribed	attached as Annexure-10
	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	
2.2	submitted to Regional office of this Ministry.	
23.	The project proponent shall advertise in two local newspaper widely circulated in the region around the	Complied.
	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 http://envfor.nic.in.	
24.	A separate Environment Management Cell with	EMC comprising of qualified staff with adequate experience
	qualified staff to be set up for implementation of the	and knowledge is in place to cater environmenta
	stipulated environmental safeguards.	responsibilities.
25.	Half yearly report on status of implementation of the	Complied.
	stipulated conditions and environmental safeguards	
	shall be submitted to this Ministry/Regional Office/CPCB/SPCB.	
26.	Regional office of the Ministry of Environment &	Complied.
20.	Forests located at Chandigarh will monitor	Complica.
	implementation of stipulated conditions. A complete	
	set of documents including EIA report & EMP report	The state of the s
	along with additional information submitted from time	the second second second
	to time shall be forwarded to the regional office for	
27.	their use during monitoring. Separate funds shall be allocated for implementation	Being Complied
21.	of environmental protection measures along with item-	being Complied
	wise break-up. These cost 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	
20	to Ministry.	Division in the state of the st
28.	The project authorities shall inform the regional office as well as the Ministry regarding the date of financial	Plant is in Operation and generation capacity is 1400 MW
	closure and final approval of project by concerned	
	authorities and the dates of start of land development	
	work and commissioning of plant.	
29.	Full co-operation should be extended to the	The NPL is providing full co-operation to th
	scientists/officers from the Ministry/Regional office of	scientists/officers from the Ministry/Regional office of th
	the Ministry at Chandigarh/the CPCB/the SPCB who	Ministry at Chandigarh/the CPCB/the SPCB who ar
	would be monitoring compliance of environmental status.	monitoring compliance of environmental status, time to time.
30.	No additional coal consumption beyond 5.8 MTPA (at	Being Complied.
J 0,	85 % PLF) earlier envisaged for 2 x 660 MW and no	Doing Complica.
	additional land for the enhanced capacity shall be	
	permitted.	



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: http://www.Intnabhapower.com
32.	Critical pollutants levels including NOx, RPSM _{10 and 2.5} , SO ₂ 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 3rd October 2008 and Amendment dated 15th 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 report is attached as Annexure-3		
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.	The Source Sustainability Study of water was conducted before granting the EC by MOEF to know the source of fulfilment of water requirement by the purposed Plant. For Nabha Power Limited the source of water is Bhakhra Canal and necessary permissions 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. Therefore, the said condition is not applicable on us.		
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.	No Ground Water abstraction is being done. We are only using Canal water for generation of Power. Therefore, the said condition is not applicable on us.		
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.		



Nabha Po	wer Limited	
	Fly ash shall not be used for agricultural purpose. No mine	Agreed
42	void filling will be undertaken as an option for fly ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option for mine void filing 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	Agrocu
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 Report is attached as Annexure-8
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 Green Endowment Fund 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.	For villages - 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. - RO water Purifiers have been installed in most of the villages by the state govt. For schools - All schools in NPL catchment area have drinking water facilities linked to OH tanks / deep Borewells. - Under new initiatives, NPL Started Support class in surrounding villages to assist Govt. School going children in their respective studies. - Similarly, Libraries have been established in Govt Schools to inculcate the habit of book reading & also to increase general knowledge level. NPL emphasis is now on the development of educational institutions with focus on renovation & upgradation of Sports, Health & Sanitation through construction of Model Aganwaries / Classrooms, washroom, renovation of school/Aganwari buildings, cycle stands. Sports Ground/Tournament,
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.	CSR spent of last five years - 2014-15 : 4.56 cr - 2015-16 : 4.43 cr - 2016-17 : 4.47 cr - 2017-18 : 4.41 cr - 2018-19 : 4.40 cr
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.	Compiled. Presently working in 49 villages (radius of 5 kms). All schemes are being implemented in the target villages in coordination with village panchayats. Skill Training (Apoox. 400 Girls) – Being imparted through 11 vocational training centers. Courses include Beautician, Tailoring, and Embroidery. Skill Training (Boys) – 30 boys from surrounding villages have been enrolled in one-year course of Electrician at

	Vocational training program for possible self-employment and jobs shall be imparted to identify villagers free of cost.	National Small-scale Industry Corporation (NSIC), Rajpura.
		Local youth are being given preference for jobs in plant as 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 discus and implement projects identified. Social Audit got done for last year.
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 Annexure-7
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 Annexure-7
53	The environment statement for each financial year ending 31st 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 0n 27.09.2019 with 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)

Test Report of Sulphur % in Coal



Land Canadana

Eco Laboratories & Consultants Pvt. Ltd.

CIN: U74140PB2011PTC034739





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

TEST REPORT

	J.	<u> </u>	Of Valld for Consent Purpose	
ULR No.	NA	Test Report No.	EL130919GS001	
Type of Sample	Coal	Date of Reporting	19/09/2019	

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	ASTM D7582	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	13/09/2019	Date of Receipt of Sample	13/09/2019
Sampling Location	From Coal Pile	Packing, Markings, Seal & Quantity	Poly Bag Marked 'Coal' 1kg
Testing Protocol	Lab SOP	Period of Analysis	13/09/2019 to 17/09/2019
Sample Description	Black colored powder		

TEST RESULTS

I-Chemical Testing

1. Pollution & Environment (Coal)

S. No.	Test Parameter	Units	Results	Standards*	Test Method
1.	Sulphur as SO ₄	%	0.42	0.5	Lab SOP No. EL/SOP/C/01

Remarks

Sample complies with respect to above tests only

*Client's Specification

OTHER INFORMATION

Abbreviation

: ULR: Unique Lab Report; NA: Not Applicable

Symbols

:

Terms & Conditions

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

End of Report

Checked by QA

V

Format No. F/7.8.2-PC-01 02.09.19 Rev 01

Dr. Sandeep Garg Authorized Signatory-Chemical

Test Report of Ash % in Coal

Details of Average Ash Content in Coal in %

Month	Average Ash Content in Coal in %
April-19	30.16
May-19	31.21
June-19	31.22
July-19	29.63
August-19	28.80
September-19	28.91
Average	29.98

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



CIN: U74140PB2011PTC034739





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

PPCB-Ref. No. Lab/92208

TEST REPORT

Not Valid for Consent Purpose

ULR No. NA

Type of Sample. Stack Emission

Test Report No. EL130919GA001 Date of Reporting. 17/09/2019

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18		
	P.O Box 28, Near VIII. Nalash Distt. Patiala	Customer reference (If any)	NA		
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	11/09/2019	Date of Receipt of Sample	13/09/2019		
Sampling Location	Boiler (Unit-1)	Environmental Conditions:	NA		
Source of emission	Stack attached to Boiler	Capacity	2322 TPH		
Make& Model	Boiler-1	Type & Quantity of Fuel Used	Coal (350 Ton/hr)		
APCD Details (If provided)	ESP	Stack Description (Shape & Material)	Circular & Metal		
Stack Identification	Single	Internal Diameter of Stack (m)	7.5		
Sampling Port hole/Platform	Permanent	Height of Stack from nearest roof top (m)			
Stack Velocity (m/s)	24.8	Stack Temperature (*K)	402		
Sampling Time (min)	85	Height of Stack from ground level (m)	275		
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)				
Period of Analysis	13/09/2019 to 17/09/2019				

TEST RESULTS

I -Chemical Testing

1. Atmospheric Pollution (Stack Emission)

S. No.	Test Parameter	Units	Results	Standards	Test Method
1.	Particulate Matter (PM)	mg/Nm ³	41	50	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO₂)	ppm	544		Lab SOP: EL/SOP/SE/12
3.	Nitrogen Oxides (as NO _x)	ppm	176		Lab SOP: EL/SOP/SE/12
4.	Carbon Monoxide (CO)	mg/Nm ³	5.3	-	Lab SOP: EL/SOP/SE/12
5.	Carbon Dioxide (CO2)	%	13.9	œ.	Lab SOP: EL/SOP/SE/12
6.	Mercury as Particulate Phase (Hg)	mg/Nm³	BDL(DL 0.01)	0.03	USEPA Method-29

Remarks

Sample complies with prescribed standards

OTHER INFORMATION

Abbreviation

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

Note

: =

Terms & Conditions

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

End of Report

Checked by QA

Dr. Sandeep Garg Authorized Signatory-Chemical

Format No. F/7.8.2 -SE-02.09.19 Rev 03



CIN: U74140PB2011PTC034739





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

TEST REPORT

Not Valid for Consent Purpose

ULR No.

NA

Test Report No. EL130919GA002

Type of Sample. Stack Emission

Date of Reporting, 17/09/2019

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18		
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference (If any)	NA		
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	12/09/2019	Date of Receipt of Sample	13/09/2019		
Sampling Location	Boiler (Unit-2)	Environmental Conditions:	NA		
Source of emission	Stack attached to Boiler	Capacity	2322 TPH		
Make& Model	Boiler-2	Type & Quantity of Fuel Used	Coal (350 Ton/hr)		
APCD Details (If provided)	ESP	Stack Description (Shape & Material)	Circular & Metal		
Stack Identification	Single	Internal Diameter of Stack (m)	7.5		
Sampling Port hole/Platform	Permanent	Height of Stack from nearest roof top (m)	-		
Stack Velocity (m/s)	23.7	Stack Temperature (*K)	403		
Sampling Time (min)	100	Height of Stack from ground level (m)	275		
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)				
Period of Analysis	13/09/2019 to 17/09/2019				

TEST RESULTS

I -Chemical Testing

1. Atmospheric Pollution (Stack Emission)

S. No.	Test Parameter	Units	Results	Standards	Test Method
1.	Particulate Matter (PM)	mg/Nm³	42	50	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	ppm	507	 	Lab SOP: EL/SOP/SE/12
3.	Nitrogen Oxides (as NO _x)	ppm	181	1 -	Lab SOP: EL/SOP/SE/12
4.	Carbon Monoxide (CO)	mg/Nm ³	13		Lab SOP: EL/SOP/SE/12
5.	Carbon Dioxide (CO2)	%	11.7	1-	Lab SOP: EL/SOP/SE/12
6.	Mercury as Particulate Phase (Hg)	mg/Nm ³	BDL(DL 0.01)	0.03	USEPA Method-29

Remarks

Sample complies with prescribed standards.

OTHER INFORMATION

Abbreviation

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

Note

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Terms & Conditions

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

End of Report

Checked by QA

Dr. Sandeep Garg Authorized Signatory-Chemical

Format No. F/7.8.2 -SE-02.09.19 Rev 03



CIN: U74140PB2011PTC034739





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

TEST REPORT

ULR No.

NA

Type of Sample. Stack Emission

Test Report No. EL200619GA009

Date of Reporting. 27/06/2019

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference (If any)	NA	
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	19/06/2019	Date of Receipt of Sample	20/06/2019	
Sampling Location	Boiler (Unit-1)	Environmental Conditions:	NA	
Source of emission	Stack attached to Boller	Capacity	2322 TPH	
Make& Model	Boiler-1	Type & Quantity of Fuel Used	Coal (340 Ton/hr)	
APCD Details (If provided)	ESP and Cyclone	Stack Description (Shape & Material)	Circular & Metal	
Stack Identification	Single	Internal Diameter of Stack (m)	7.5	
Sampling Port hole/Platform	Permanent	Height of Stack from nearest roof top (m)		
Stack Velocity (m/s)	24.2	Stack Temperature (°K)	418	
Sampling Time (min)	84	Height of Stack from ground level (m)	275	
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)			
Period of Analysis	20/06/2019 to 24/06/2019			

TEST RESULTS

I -Chemical Testing

1. Atmospheric Pollution (Stack Emission)

S. No.	Test Parameter	Units	Results	Limits	Test Method
1.	Particulate Matter (PM)	mg/Nm³	40	50	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO₂)	ppm	595	7.0	Lab SOP: EL/SOP/SE/12
3.	Nitrogen Oxides (as NO _x)	ppm	171		Lab SOP: EL/SOP/SE/12
4.	Carbon Monoxide (CO)	mg/Nm³	5.1	na:	Lab SOP: EL/SOP/SE/12
5.	Carbon Dioxide (CO2)	%	12.2	(*)	Lab SOP: EL/SOP/SE/12
6.	Mercury as Particulate Phase (Hgp)	mg/Nm³	BDL(DL 0.01)	0.03	USEPA Method-29

Remarks

Sample complies with prescribed standards.

OTHER INFORMATION
Abbreviation

Checked by

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

Note

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Terms & Conditions

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

End of Report

Format No. F/7.8.2 –SE-15.11.18 Rev 02

Dr. Roopak Kumar Authorized Signatory-Chemical



ACIT. No. AUSTUZBIIN



CIN: U74140PB2011PTC034739

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

TEST REPORT

ULR No.

NΔ

Type of Sample. Stack Emission

Test Report No. EL200619GA010

Date of Reporting. 27/06/2019

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference (If any)	NA	
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	19/06/2019	Date of Receipt of Sample	20/06/2019	
Sampling Location	Boiler (Unit-2)	Environmental Conditions:	NA	
Source of emission	Stack attached to Boiler	Capacity	2322 TPH	
Make& Model	Boller-2	Type & Quantity of Fuel Used	Coal (340 Ton/hr)	
APCD Details (If provided)	Electrostatic, Precipitator & Cyclone	Stack Description (Shape & Material)	Circular & Metal	
Stack Identification	Single	Internal Diameter of Stack (m)	7.5	
Sampling Port hole/Platform	Permanent	Height of Stack from nearest roof top (m)		
Stack Velocity (m/s)	22.5	Stack Temperature (°K)	413	
Sampling Time (min)	84	Height of Stack from ground level (m)	275	
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)			
Period of Analysis	20/06/2019 to 24/06/2019			

TEST RESULTS

I -Chemical Testing

1. Atmospheric Pollution (Stack Emission)

i. No.	Test Parameter	Units	Results	Limits	Test Method
1.	Particulate Matter (PM)	mg/Nm³	38	50	IS: 11255 (P-1) 1985
2.	Sulphur Dioxide (SO ₂)	ppm	501	E4	Lab SOP: EL/SOP/SE/12
3.	Nitrogen Oxides (as NO _x)	ppm	182	3	Lab SOP: EL/SOP/SE/12
4.	Carbon Monoxide (CO)	mg/Nm³	18		Lab SOP: EL/SOP/SE/12
5.	Carbon Dioxide (CO2)	%	11.8	/-	Lab SOP: EL/SOP/SE/12
6.	Mercury as Particulate Phase (Hgp)	mg/Nm ³	BDL(DL 0.01)	0.03	USEPA Method-29

Remarks

Sample complies with prescribed standards.

OTHER INFORMATION
Abbreviation

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

Note

Terms & Conditions

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

End of Report

Checked by

Dr. Roopak Kumar Authorized Signatory-Chemical

Format No. F/7.8.2 -SE-15.11.18 Rev 02



PUNJAB POLLUTION CONTROL BOARD

AIR LABORATORY, HEAD OFFICE, VATAVARAN BHAWAN, PATIALA Telefax: 0175- 2302392 Email:- aso2airlab@gmail.com

1. Laboratory Sample No.

2. Name of Industry

Name of Sample collecting Officer

4. Designation of Authorizing Test

5. Type of Sample

6. Date & Time of Sample Collection

7. Date & Time of Sample receipt in Lab.

8. Point of Sample collection

623-24/ H.O.Lab./Air/Monitoring/2019

M/s, Nabha Power Ltd, Vill Nalash, Rajpura,

Patiala.

Er.Nikhil Gupta, AEE, Dr Rupinder Kaur, SA

EE, RO, Patiala

Stack Emission

26.06.2019

27.06.2019

Details as Given Below



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Results

Point of Sample Collection	Parameter	Results
From Port hole on stack after APCD (Unit 1)	Particulate Matter	45 mg/Nm³ @ 12% CO2
From Port hole on stack after APCD (Unit II)	Particulate Matter	38 mg/Nm³ @ 12% CO2

TOE Scientific Officer (Air Laboratory) CIFIC OF

Endst. No: 19508-09

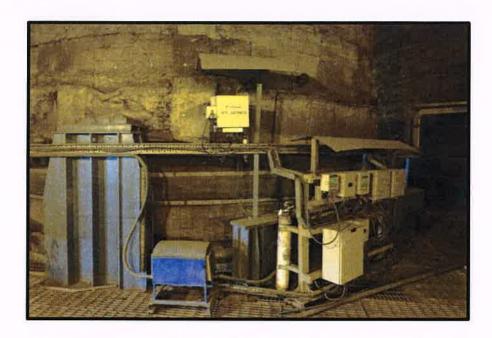
2-7-19

A copy of the above is forwarded to the following for information and necessal

1. The Senior Environmental Engineer, Punjab Pollution Control Board

The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Patiala.

Of Scientific Officer (Air Laboratory)

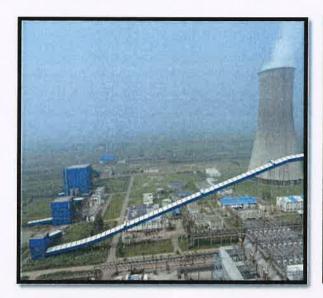




Continuous emission monitoring system installed at main stack for measurement of Particulate Matter & Gaseous Emissions.

Measures taken to control fugitive emissions

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



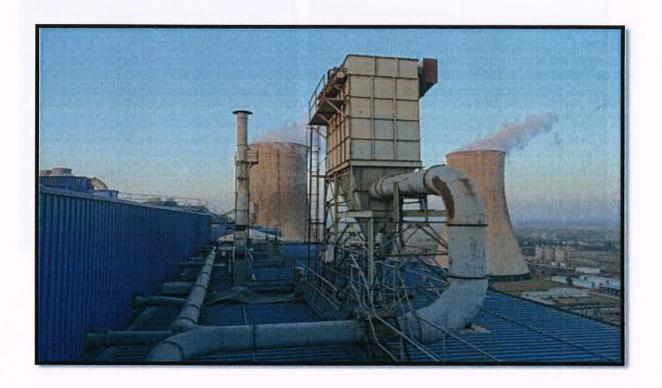
Automated and Mechanized Coal handling System to minimize manual operations



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



Dust Extraction System at Crusher House



Dust Extraction System at Bunker



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

Fly Ash Utilization Report

					Z	Nabha Power Ltd	Ltd					
					Fly Ash	Fly Ash Utilization FY 2019-20	(2019-20					
				Ash Generation Data (MT	ata (MT)		Ash Utilisati	Ash Utilisation Data (MT)		%Ash utilised	utilised	
Dorion	Month	Coal	Op. El. och	Wet Collection (Pond Ash)	Pond Ash)	Total			Total Ash			7=0
	None None	Consumed(MT)	Collection	Bottom Ash	Dry Fly ash		Dry Fly ash	Pond Ash	Utilised (MT)	DFA	Total Ash	Yemark 1
	Apr-19	308774.00	77655.00	16006.00	00.0	93661.00	77655,12	4796.00	82451.12	100.00%	88.03%	
	May-19	424035.06	110502.00	21882.86	0.00	132384.86	110402.86	5009.00	115411.86	99.91%	87.18%	
Y 2019-	FY 2019- Jun-19	431489.00	111904.14	22775.85	2797.00	134679.99	107107.14	5697.00	112804.14	95.71%	83.76%	
2020	Jul-19	432118.50	109835.20	18612.20	9944.40	128447.40 101890.77	101890.77	4912.00	106802.77	92.76%	83.15%	
	Aug-19	434092.80	106245.00	19287.00	0.00	125532.00	106245.82	10785.00	117030.82	100.00%	93.23%	
	Sep-19	439164.00	108059.00	14390.00	00.0	122449.00	107859.37	15594.00	123453.37	99.82%	100.82%	
	Total	2469673.36	624200.34	112953.91	12741.4	737154.25	12741.4 737154.25 611161.08	46793.00	657954.08	97.91	89.26	

Treated Sewage Monitoring Results



CIN: U74140PB2011PTC034739



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

TEST REPORT

Not Valid for Consent Purpose

ULR NO	NA .	lest Report No.	EL130919GE005	
Type of Sample	Waste Water (Sewage)	Date of Reporting	17/09/2019	
Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA	
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	13/09/2019	Date of Receipt of Sample	13/09/2019	
Sampling Location	From Pipe (STP Outlet)	Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'B/13/01' 2 litre + 1 litre	
Testing Protocol	CPCB & PPCB Guidelines	Period of Analysis	13/09/2019 to 17/09/2019	

TEST RESULTS

I-Chemical Testing

Sample Description

1. Pollution & Environment (Sewage)

Turbid liquid with suspended particles.

S. No.	Test Parameter	Units	Results	Standards*	Test Method
1.	рН	949	7.46	6.5-9.0	APHA-23 rd Ed 2017-4500B
2.	Total Dissolved Solids	mg/l	350	-	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	42	≤ 100	APHA-23 rd Ed 2017- 2540 D
4.	Biochemical Oxygen Demand	mg/l	14	≤ 30	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD (3 days)
5.	Chemical Oxygen Demand	mg/l	36	≤ 250	APHA-23 rd Ed 2017- 5220B
6.	Oil & Grease	mg/l	BDL(DL 3)	-	APHA-23 rd Ed 2017- 5520D

Remarks

: Sample complies with respect to above tests only.

OTHER INFORMATION

Abbreviation

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

Symbols

Discharge standards as per G.S.R 1265 (E) & PPCB Guldelines

Terms & Conditions

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

End of Report

Checked by QA

Dr. Sandeep GargAuthorized Signatory-Chemical

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Format No. F/7.8.2-WW-01- 02.09.19 Rev 03



CIN: U74140PB2011PTC034739





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TEST REPORT

ULR No.	NA	Test Report No.	EL200619GE002	
Type of Sample	Waste Water (Sewage)	Date of Reporting	27/06/2019	

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18		
	Distt. Patiala	Customer reference No. (If any)	NA		
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	20/06/2019	Date of Receipt of Sample	20/06/2019		
Sampling Location	From Pipe (STP Outlet)	Packing, Markings, Seal & Quantity	2 Plastic Bottles Marked 'B/20/01' 2 litre		
Testing Protocol	IS:3025 & APHA 23 rd Ed 2017	Period of Analysis	20/06/2019 to 27/06/2019		
Sample Description	Slightly turbid liquid with suspended & settleable particles.				

TEST RESULTS

1-Chemical Testing

1. Pollution & Environment (Sewage)

S. No.	Test Parameter	Units	Results	Standards*	Test Method
1.	pH		7.73	5.5-9.0	APHA-23 rd Ed 2017-4500B
2.	Total Dissolved Solids	mg/l	302		APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	43	100	APHA-23 rd Ed 2017- 2540 D
4.	Biochemical Oxygen Demand	mg/l	2.3	30	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD (3 days)
5.	Chemical Oxygen Demand	mg/l	8	250	APHA-23 rd Ed 2017- 5220B
6.	Oil & Grease	mg/l	BDL(DL 3)	10	APHA-23 rd Ed 2017- 5520D

Remarks

Sample complies with prescribed standard.

OTHER INFORMATION

Abbreviation

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

Symbols

*Standards as per discharge of environmental pollutants (wastewater) Inland surface water as per The

Environment(Protection)Rules, 1986

Terms & Conditions

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

End of Report

Mot Valid for Consent Purpose

Format No. F/7.8.2-WW-01- 15.11.18 Rev 02

Dr. Roopak Kumar **Authorized Signatory-Chemical**

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

1. Laboratory Sample No.

2. ULR No.

3. Name of Industry

E- 493/ H.O.Lab. Monitoring/2019

The-Rajpura, Distt. Patiala.

4. Name of Sample collecting Officer

5. Designation of the officer authorizing Test

6. Type of Sample

7. Date &Time of Sample collection

8. Date &Time of Sample receipt in Lab.

9. Period of Analysis

10. Test Methods

ULR-TC704518000000001083

M/s Nabha Power Ltd, Village Nalash,

Er. Nikhil Gupta, AEE

Environmental Engineer, Regional Office, Patiala-

Grab

19.06.2019 20.06.2019

20.06.2019 to 01.07.2019

As per relevant parts of IS:3025/& Me

Results

Sr. No.	Parameters	Outlet of STP
1	pH	7.36
2	Total Suspended Solids mg/l	12.0
3	Total Dissolved Solids mg/l	676
4	Bio-chemical Oxygen Demand mg/l	14
5	Chemical Oxygen Demand mg/l	48
6	*Oil & Grease mg/l	BDL

Not covered under scope of NABL

Note: BDL Below Method detection Limit

--- End of Report---

Analyzed by and Thaled. Endst. No: 19673-74 Analyzed by

Marana/1/7/19 Scientific Officer

Dt. 2-7-19

A copy of the above is forwarded to the:-

1. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal Office-.I, Patiala.

2-The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Patiala.

Ground Water Quality Monitoring Results





CIN: U74140PB2011PTC034739

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

P. CB-Ruf. Ho. Lab/3230092 Dated-30.09.2011

TEST REPORT

ULR No.	NA	Test Report No.	EL050719GW002	
Type of Sample	Ground Water	Date of Reporting	09/07/2019	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA	
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	05/07/2019	Date of Receipt of Sample	05/07/2019	
mpling Location	From Piezometer Well No.1 (Depth- 170 feet)	Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'B/05/01' 2 litre + 250ml	
Testing Protocol	IS 3025 & APHA 2017 Period of Analysis		05/07/2019 to 09/07/2019	
Sample Description	Colourless, odourless liquid free from suspended & settleable particles.			

TEST RESULTS

1-Chemical Testing

1. Ground Water

i. No.	Test Parameter	Units	Results	Test Method
1.	Total Hardness as CaCO ₃	mg/l	76	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/l	312	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 2540 D
4.	рН	-	7.73	APHA-23 rd Ed 2017-4500B
5.	Sulphate as SO ₄	mg/l	29	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 ºC
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 52208
8.	Arsenic as As	mg/i	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
9.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 31118
10.	Lead as Pb	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3111B
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 3112B

Remarks

Party asked for above tests only

OTHER INFORMATION

Abbreviation

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

Symbols

Terms & Conditions

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

End of Report

Authorized Signatory-Chemical

Format No. F/7.8.2-W-01- 15.11.18 Rev 02



AITC No. WHITEMAN



CIN: U74140PB2011PTC034739

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

TEST REPORT

Dated-30.09.2011

ULR No.	NA	Test Report No.	EL050719GW003	
Type of Sample	Ground Water	Date of Reporting	09/07/2019	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA	
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	05/07/2019	Date of Receipt of Sample	05/07/2019	
mpling Location	From Piezometer Well No.2 (Depth- 170 feet)	Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'B/05/02' 2 litre + 250ml	
Testing Protocol	IS 3025 & APHA 2017	Period of Analysis	05/07/2019 to 09/07/2019	
Sample Description Colourless, odourless liquid free from suspended & settleable particles.				

TEST RESULTS

1-Chemical Testing

1. Ground Water

. No.	Test Parameter	Units	Results	Test Method
1.	Total Hardness as CaCO₃	mg/l	70	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/l	305	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 2540 D
4.	рН		7.77	APHA-23 rd Ed 2017-4500B
5.	Sulphate as SO ₄	mg/l	22	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 5220B
8.	Arsenic as As	mg/i	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
9.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B
10.	Lead as Pb	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 31118
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 3112B

Remarks

Party asked for above tests only

OTHER INFORMATION

Abbreviation

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

Symbols

2

Terms & Conditions

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

End of Report

Not Valid for Consent Purpose

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Dr. Roopak Kumar

Authorized Signatory-Chemical

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Page 1 of 1

Format No. F/7 8.2-W-01- 15 11.18 Rev 02







CIN: U74140PB2011PTC034739

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TEST REPORT

ULR No.	NA	Test Report No.	EL050719GW004
Type of Sample	Ground Water	Date of Reporting	09/07/2019

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA	
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	05/07/2019	Date of Receipt of Sample	05/07/2019	
mpling Location From Piezometer Well No.3 (Depth- 170 feet)		Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'B/05/03' 2 litre + 250ml	
Testing Protocol	IS 3025 & APHA 2017	Period of Analysis	05/07/2019 to 09/07/2019	
Sample Description	Colourless, odourless liquid free from suspended & settleable particles.			

TEST RESULTS

1 -Chemical Testing

1. Ground Water

. No.	Test Parameter	Units	Results	Test Method
1.	Total Hardness as CaCO ₃	mg/i	76	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/l	327	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	BDL(DL5)	APHA-23 rd Ed 2017- 2540 D
4.	рН		7.67	APHA-23 rd Ed 2017-4500B
5.	Sulphate as SO ₄	mg/l	24	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 ºC
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 5220B
8.	Arsenic as As	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
9.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B
10.	Lead as Pb	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3111B
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 3112B
	<u> </u>			

Remarks

Party asked for above tests only

OTHER INFORMATION

Abbreviation

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

Symbols

Terms & Conditions

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

End of Report

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Format No. F/7.8 2-W-01-15.11.18 Rev 02

Authorized Signatory-Chemical







CIN: U74140PB2011PTC034739

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

TEST REPORT

NG-7 III No. Lpp/3138892 Date J-30 09,2011

ULR No.	NA	Test Report No.	EL050719GW005	
Type of Sample	Ground Water	Date of Reporting	09/07/2019	

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	Distt. Patiala	Customer reference No. (If any)	NA	
Sampling Protocol IS: 3025 (P-1) 1987 R1998 Amdt-1		Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	05/07/2019	Date of Receipt of Sample	05/07/2019	
From Piezometer Well No.4 (Depth-70-80 feet) Testing Protocol IS 3025 & APHA 2017		Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'B/05/04' 2 litre + 250ml 05/07/2019 to 09/07/2019	
		Period of Analysis		
Sample Description	Colourless, odourless liquid free from suspended & settleable particles.			

TEST RESULTS

I-Chemical Testing

1. Ground Water

5. No.	Test Parameter	Units	Results	Test Method
1.	Total Hardness as CaCO ₃	mg/l	82	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/i	340	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 2540 D
4.	рН		7.28	APHA-23 rd Ed 2017-4500B
5.	Sulphate as 5O ₄	mg/l	27	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 52208
8.	Arsenic as As	mg/1	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
9.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B
10.	Lead as Pb	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3111B
11	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 3112B

Remarks

: Party asked for above tests only

OTHER INFORMATION

Abbreviation

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

Symbols

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r Consent Purpose

Terms & Conditions

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

End of Report

Format No_F/7.8.2-W-01- L5_11_18 Rev 02

Dr. Roopak Kumar Authorized Signatory-Chemical







CIN: U74140PB2011PTC034739

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

lo. Lab/3235HV2 -50:09.2011

TEST REPORT

ULR No.	NA	Test Report No.	EL200619GW002	
Type of Sample	Ground Water	Date of Reporting	24/06/2019	
Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA	
Sámpling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory	

	P.O Box 28, Near Vill. Nalash		
	Distt. Patiala	Customer reference No. (If any)	NA
Sámpling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	19/06/2019	Date of Receipt of Sample	20/06/2019
Sampling Location	From Piezometer No.1	Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked '8/19/01' 2 litre + 250ml
Testing Protocol	IS 3025 & APHA 2017	Period of Analysis	20/06/2019 to 24/06/2019
Sample Description	Colourless liquid.		

TEST RESULTS

1-Chemical Testing

1. Ground Water

5. No.	Test Parameter	Units	Results	Test Method
1,	Total Hardness as CaCO₃	mg/t	70	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/l	310	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 2540 D
4.	рН	2	7.8	APHA-23 rd Ed 2017-4500B
5.	Sulphate as SO ₄	mg/l	22	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 ºC
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 5220B
8.	Arsenic as As	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
9.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B
10.	Lead as Pb	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3111B
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 3112B

Remarks

: Party asked for above tests only

OTHER INFORMATION

Abbreviation

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

Symbols

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Terms & Conditions

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

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CIN: U74140PB2011PTC034739

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TEST REPORT

Laurid 20,09,2921

ULR No.	NA .	Test Report No.	EL200619GW003
Type of Sample	Ground Water	Date of Reporting	24/06/2019

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
*	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA	
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	19/06/2019	Date of Receipt of Sample	20/06/2019	
Sampling Location	From Piezometer No.2	Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'B/19/02' 2 litre + 250ml	
Testing Protocol	IS 3025 & APHA 2017	Period of Analysis	20/06/2019 to 24/06/2019	
Sample Description	Colourless liquid.			

TEST RESULTS

1-Chemical Testing

1. Ground Water

. No.	Test Parameter	Units	Results	Test Method
1.	Total Hardness as CaCO ₃	mg/l	72	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/l	341	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/i	8DL(DL 5)	APHA-23 rd Ed 2017- 2540 D
4.	рН	1424	8.90	APHA-23 rd Ed 2017-4500B
5.	Sulphate as SO ₄	mg/l	28	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 5220B
8.	Arsenic as As	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
9.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B
10.	Lead as Pb	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3111B
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 3112B

Remarks

: Party asked for above tests only

OTHER INFORMATION

Abbreviation

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Terms & Conditions

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End of Report

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CIN: U74140PB2011PTC034739

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TEST REPORT

PCB-Puf. No. Lab/3239892

ULR No. NA		Test Report No.	EL200619GW004
Type of Sample Gr	ound Water	Date of Reporting	24/06/2019

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	Distt. Patiala	Customer reference No. (If any)	NA	
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	19/06/2019	Date of Receipt of Sample	20/06/2019	
Sampling Location	From Piezometer No.3	Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'B/19/03' 2 litre + 250ml	
Testing Protocol	IS 3025 & APHA 2017	Period of Analysis	20/06/2019 to 24/06/2019	
Sample Description	Colourless liquid.			

TEST RESULTS

1-Chemical Testing

1. Ground Water

5. No.	Test Parameter	Units	Results	Test Method
1.	Total Hardness as CaCO ₃	mg/l	82	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/l	352	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 2540 D
4.	рН		7.60	APHA-23 rd Ed 2017-4500B
5.	Sulphate as SO ₄	mg/l	31	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 ºC
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 5220B
ė.	Arsenic as As	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
9.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B
10.	Lead as Pb	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3111B
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 3112B

Remarks

Party asked for above tests only

OTHER INFORMATION

Abbreviation

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

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Terms & Conditions

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Dr. Roopak Kumar

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Eco Laboratories & Consultants Pvt. Ltd.





CIN: U74140PB2011PTC034739

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TEST REPORT

ULR No.	NA -	Test Report No.	EL200619GW005	
Type of Sample	Ground Water	Date of Reporting	24/06/2019	

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	Distt. Patiala	Customer reference No. (If any)	NA	
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	19/06/2019	Date of Receipt of Sample	20/06/2019	
ampling Location	From Piezometer No.4	Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'B/19/04' 2 litre + 250ml	
Teșting Protocol	IS 3025 & APHA 2017	Period of Analysis	20/06/2019 to 24/06/2019	
Sample Description	Colourless liquid.			

TEST RESULTS

I-Chemical Testing

1. Ground Water

. No.	Test Parameter	Units	Results	Test Method
1.	Total Hardness as CaCO ₃	mg/l	80	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/l	371	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 2540 D
4.	рН		7.50	APHA-23 rd Ed 2017-4500B
5.	Sulphate as SO ₄	mg/l	29	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/i	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 5220B
8.	Arsenic as As	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
ģ.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B
10.	Lead as Pb	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3111B
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 3112B

Remarks

: Party asked for above tests only

OTHER INFORMATION

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Dr. Roopak Kumar Authorized Signatory-Chemical

CW Reports

Laboratory Sample No

a. Name of Sample collecting Officer

6. Date & Time of Sample collection

Date & Time of Sample receipt in Lab.

5. Designation of authorizing Test

ULR Number

Name of Industry

8. Period of Analysis

Test Methods

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

GW 143-146/ H.O.Lab./ G.W. Monitoring/2018-19

ULR-TC704518000000001084P Ground Water Samples taken from

M/s Nabha Power Limited, Vill. Nalas, Rajpura

Er.Nikhil Gupta, AEE

EE, RO, Patiala.

19.06.2019

20.06.2019 20.06.2019 to 27.06.2019

As per relevant parts of IS:3025 &

Methods of APHA

Resu

V₽3010 de	Methods		Along ash dyke	Between Ash
r. Parameters	Near Coal Handling Plant	Near Storm Water Sump	Along ash dyke	dyke and reservior
10.			7.72	7.27
	7.74	7.73	V	BDL
1 pH		BDL	BDL	
2 Total Suspended Solids	BDB		316	454
mall		- 330	316	
3 Total Dissolved Solids	347		201	BDL
mg/l	BDL	BDL	BDL	552
4 *Chemical Oxygen	DDL		BDL	BDL
Demand mg/l	BDL	BDL BDL		500
5 *Bio-Chemical Oxygen	DDL			312
Demand mg/l	92	98	104	
6 Total Hardness mg/l		12.1	14.6	34
7 *Magnesium mg/l	11.4	36	25	42
3 Sulphate mg/l	23	BDL	BDL	BDL
9 *Mercury mg/l	BDL	BDL	BDL	BDL
10 *Lead mg/l	BDL	BDL	BDL	BDL
11 Total Chromium mg/l	BDL	BDL		

Not covered under scope of NABL Note: BDL means Below Method Detection Limit.

-- End of Report-

Sametur 28-6-19 Analyzed by

Endst. No: 19288-89

Morara 20/6/19 Scientific Officer Dt.

A copy of the above is forwarded to the:-

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

The Environment Engineer, Punjab Pollution Control Board, Regional Office, Patiala.



JAS-AHZ

ACC. No. MITHINGHIN



CIN: U74140PB2011PTC034739

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

TEST REPORT

ULR No.	NA	Test Report No.	EL160519GW001	
Type of Sample	Ground Water	Date of Reporting	20/05/2019	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	16/05/2019	Date of Receipt of Sample	16/05/2019
mpling Location	From Peizometer No.1	Packing, Markings, Seal & Quantity	Plastic Bottle Marked 'B/16/01' 2 litre
Testing Protocol	IS 3025 & APHA 2017	Period of Analysis	16/05/2019 to 20/05/2019
Sample Description	Colourless liquid with suspended & set	tleable particles.	

TEST RESULTS

1-Chemical Testing

1. Ground Water

. No.	Test Parameter	Units	Results	Test Method	
1.	Total Hardness as CaCO ₃	mg/l	73	APHA-23 rd Ed 2017- 2340C	
2.	Total Dissolved Solids	mg/i	318	APHA-23 rd Ed 2017- 2540C	
3.	Total Suspended Solids	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 2540 D	
4.	рН	-	7.96	APHA-23 rd Ed 2017-4500B	
5.	Sulphate as SO ₄	mg/l	24	APHA-23 rd Ed 2017-4500E	
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 °C	
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 5220B	
120	Arsenic as As	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C	
9.	Total Chromium as Cr	mg/i	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B	
10.	Lead as Pb	mg/l	BDL(DL 0.01)	.0.01) APHA-23 rd Ed 2017- 3111B	
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 3112B	

Remarks

: Party asked for above tests only

OTHER INFORMATION

Abbreviation

: ULR: Unique Lab Report, BDL- Below Detection Limit, NA: Not Available

Symbols

: NA

Terms & Conditions

: Please refer terms and conditions overleaf.

End of Report

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ACE NO MINISTER



CIN: U74140PB2011PTC034739

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TEST REPORT

Dated-30.09.2011

ULR No.	NA	Test Report No.	EL160519GW002
Type of Sample	Ground Water	Date of Reporting	20/05/2019

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	16/05/2019	Date of Receipt of Sample	16/05/2019
mpling Location	From Peizometer No.2	Packing, Markings, Seal & Quantity	Plastic Bottle Marked 'B/16/02' 2 litre
Testing Protocol	IS 3025 & APHA 2017	Period of Analysis	16/05/2019 to 20/05/2019
Sample Description	Colourless liquid with suspended & set	tleable particles	

TEST RESULTS

I-Chemical Testing

1. Ground Water

S. No.	Test Parameter	Units	Results	Test Method
1.	Total Hardness as CaCO ₃	mg/l	75	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/l	359	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 2540 D
4.	рН	-	8.02	APHA-23 rd Ed 2017-4500B
5.	Sulphate as SO ₄	mg/l	30	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2) IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 ºC	
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 5220B
3.	Arsenic as As	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
9.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B
10.	Lead as Pb	mg/i	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3111B
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 31128

Remarks

: Party asked for above tests only

OTHER INFORMATION

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Abbreviation Symbols ULR: Unique Lab Report, BDL- Below Detection Limit, NA: Not Available

Terms & Conditions

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End of Report

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CIN: U74140PB2011PTC034739

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TEST REPORT

PPCB-Ref. No. Lab/3233882 Dated-30.05.2011

ULR No.	NA -	Test Report No.	EL160519GW003	
Type of Sample	Ground Water	Date of Reporting	20/05/2019	

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	16/05/2019	Date of Receipt of Sample	16/05/2019
mpling Location	From Peizometer No.3	Packing, Markings, Seal & Quantity	Plastic Bottle Marked 'B/16/03' 2 litre
Testing Protocol	IS 3025 & APHA 2017	Period of Analysis	16/05/2019 to 20/05/2019
Sample Description	Liquid with suspended & settleable par	rticles .	

TEST RESULTS

1-Chemical Testing

1. Ground Water

S. No.	Test Parameter	Units	Results	Test Method
1.	Total Hardness as CaCO ₃	mg/l	87	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/l	361	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 2540 D
4.	рН		7.88	APHA-23 rd Ed 2017-4500B
5.	Sulphate as SO ₄	mg/l	32	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 ºC
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 5220B
1.	Arsenic as As	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
9.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B
10.	Lead as Pb	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 31118
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 31128

Remarks

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OTHER INFORMATION

Abbreviation

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Symbols

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CIN: U74140PB2011PTC034739

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PPCD-Ref. No. Leb/325869Z-Dated-30.09.2011 **TEST REPORT**

ULR No.	NA	Test Report No.	EL160519GW004	
Type of Sample	Ground Water	Date of Reporting	20/05/2019	

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	16/05/2019	Date of Receipt of Sample	16/05/2019
mpling Location	From Peizometer No.4	Packing, Markings, Seal & Quantity	Plastic Bottle Marked 'B/16/04' 2 litre
Testing Protocol	IS 3025 & APHA 2017	Period of Analysis	16/05/2019 to 20/05/2019
Sample Description	Slightly yellowish liquid with suspended	d & settleable particles	

TEST RESULTS

I-Chemical Testing

1. Ground Water

S. No.	Test Parameter	Units	Results	Test Method
1.	Total Hardness as CaCO₃	mg/l	87	APHA-23 rd Ed 2017- 2340C
2.	Total Dissolved Solids	mg/l	392	APHA-23 rd Ed 2017- 2540C
3.	Total Suspended Solids	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 2540 D
4.	рН		7.66	APHA-23 rd Ed 2017-4500B
5.	Sulphate as SO ₄	mg/l	27	APHA-23 rd Ed 2017-4500E
6.	Biochemical Oxygen Demand	mg/l	BDL(DL 2)	IS: 3025 (P-44)-1993 R-1999 Ad.1 BOD 3-days at 27 ºC
7.	Chemical Oxygen Demand	mg/l	BDL(DL 5)	APHA-23 rd Ed 2017- 5220B
).	Arsenic as As	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3114C
9.	Total Chromium as Cr	mg/l	BDL(DL 0.05)	APHA-23 rd Ed 2017- 3111B
10.	Lead as Pb	mg/l	BDL(DL 0.01)	APHA-23 rd Ed 2017- 3111B
11.	Mercury as Hg	mg/l	BDL(DL 0.0005)	APHA-23 rd Ed 2017- 3112B

Remarks

: Party asked for above tests only

OTHER INFORMATION

Abbreviation

ULR: Unique Lab Report, BDL- Below Detection Limit, NA: Not Available

Symbols

: NA

Terms & Conditions

: Please refer terms and conditions overleaf.

End of Report

Not Valid for Consent Purpose

Format No. F/7.8.2 15.11.18 Rev 01

Dr. Roopak Kumar Authorized Signatory-Chemical



CIN: U74140PB2011PTC034739





[A Govt. Approved, ISO 9001:2015, 14001 & OHSAS-18001:2007 certified & Approved by MOEF, PPCB]

TEST REPORT



Test Report No. ;EL090419GW001	81/19-20/13645	Page No. 1/1				
Customer	Nabha Power Limited					
	PO Box 28, Near Village-Nalash					
	Dist Patiala , Rajpura-140101					
Work Order No. & Date	NPL/47000-06931 Dated 18/09/2018					
Type of Sample	Ground Water					
de of Collection of Sample	Sampling by laboratory					
Date of Sampling	09/04/2019					
Sampling Location	Piezometer Well No. 1 (170 feet)					
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1					
Packing, Markings, Seal & Quantity	Plastic Bottle & Glass Bottle Marked ' B/09/01' 2litre + 250ml					
Date of Receipt of Sample	09/04/2019					
Period of Analysis	09/04/2019 To 15/04/2019					
Date of Reporting	15/04/2019					
Sample Observation	Colourless liquid with suspended particles.					

RESULTS

S.No.	Test Parameter	Units	Results	Test Method	
1	Total Dissolved Solids	mg/L	501	ΛΡΗΑ-23rd Ed 2017- 2540C	
2	Total Suspended Solids	mg/L	25	APHA-23rd Ed 2017- 2540 D	
	рН		7.66	APHA-23rd Ed 2017-4500B	
4	Arsenic as As	mg/L	BDL(DL 0.01)	APHA-23rd Ed 2017-3114C	
5	Chromium as Cr	mg/L	BDL(DL 0.05)	APHA-23rd Ed 2017-3111B	
6	Lead as Pb	mg/L	BDL(DL 0.01)	APEA 23rd Ed 2017-3111B	
7	Mercury as Hg	mg/L	BDL(DL 0.0005)	APHA-23rd Ed 2017-3112B	

Remarks (if any) BDL=Below Detection Limit; DL= Detection Limit Please refer Terms & Conditions overleaf.

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Lab Incharge

**End of R por "

Dr. Rospak Kumar Authorized Signatory-Chemical

Format no. F/7.8.2;15.11.2018



CIN: U74140PB2011PTC034739





[A Govt. Approved, ISO 9001:2015, 14001 & OHSAS-18001:2007 certified & Approved by MOEF, PPCB]

TEST REPORT



Test Report No. :EL090419GW002	EC[19-20]13646 Page No. 1/						
Customer	Nabha Power Limited						
	PO Box 28, Near Village-Nalash						
	Dist Patiala , Rajpura-140101						
Work Order No. & Date	NPL/47000-06931 Dated 18/09/2018						
Type of Sample	Ground Water						
de of Collection of Sample	Sampling by laboratory						
Date of Sampling	09/04/2019						
Sampling Location	Piezometer Well No. 2 (170 feet)						
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1						
Packing, Markings, Seal & Quantity	Plastic Bottle & Glass Bottle Marked B/09/02' 2litre + 250ml						
Date of Receipt of Sample	09/04/2019						
Period of Analysis	09/04/2019 To 15/04/2019						
Date of Reporting	15/04/2019						
Sample Observation	Colourless liquid with suspended & settleable particles.						

RESULTS

S.No.	Test Parameter	Units	Results	Test Method		
1	Total Dissolved Solids	mg/L	432	APHA-23rd Ed 2017- 2540C		
2	Total Suspended Solids	mg/L	42	APHA-23rd Ed 2017- 2540 D		
	pH		6.56	APHA-23rd Ed 2017-4500B		
4	Arsenic as As	mg/L	BDL(DL 0.01)	APHA-23rd Ed 2017-3114C		
5	Chromium as Cr	mg/L	BDL(DL 0.05)	APHA-23rd Ed 2017-3111B		
6	Lead as Pb	mg/L	BDL(DL 0.01)	APHA-23rd Ed 2017-3111B		
7	Mercury as Hg	mg/L	BDL(DL 0.0005)	APHA-23rd Ed 2017-3112B	1-0	

Remarks (if any) BDL=Below Detection Limit; DL= Detection Limit Please refer Terms & Conditions overleaf

30.03.2011

Lab Incharge

End of Report

Dr. Roopak Kumar Authorized Signatory-Chemical

Format no. F/7.8.2;15.11,2018



JAS-ANZ



CIN: U74140PB2011PTC034739

[A Govt. Approved, ISO 9001:2015, 14001 & OHSAS-18001:2007 certified & Approved by MOEF, PPCB]

TEST REPORT



Test Report No. :EL090419GW003	Ec(19-w/13647 Page No. 1/						
Customer	Nabha Power Limited						
	PO Box 28, Near Village-Nalash						
	Dist Patiala , Rajpura-140101						
Work Order No. & Date	NPL/47000-06931 Dated 18/09/2018						
Type of Sample	Ground Water						
de of Collection of Sample	Sampling by laboratory						
Date of Sampling	09/04/2019						
Sampling Location	Piezometer Well No. 3 (170 feet)						
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1						
Packing, Markings, Seal & Quantity	Plastic Bottle & Glass Bottle Marked ' B/09/03' 2litre + 250ml						
Date of Receipt of Sample	09/04/2019						
Period of Analysis	09/04/2019 To 15/04/2019						
Date of Reporting	15/04/2019						
Sample Observation	Colourless liquid with suspended & settleable particles.						

RESULTS

S.No.	Test Parameter	Units	Results	Test Method	
1	Total Dissolved Solids	mg/L	360	APHA-23rd Ed 2017- 2540C	
2	Total Suspended Solids	mg/L.	38	APHA-23rd Ed 2017- 2540 D	
	рН		7.11	APHA-23rd Ed 2017-4500B	
4	Arsenic as As	mg/L	BDL(DL 0.01)	APHA-23rd Ed 2017-3114C	
5	Chromium as Cr	mg/L	BDL(DL 0.05)	APHA-23rd Ed 2017-3111B	
5	Lead as Pb	mg/L	BDL(DL 0.01)	APHA-23rd Ed 2017-3111B	
7	Mercury as Hg	mg/L	BDL(DL 0.0005)	APHA-23rd Ed 2017-3112B	

Remarks (if any) BDL=Below Detection Limit; DL= Detection Limit Please refer Terms & Conditions overleaf.

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Lab Incharge

End of Report

Dr. Roopak Kumar Authorized Signatory-Chemical

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CIN: U74140PB2011PTC034739

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TEST REPORT



Test Report No. :EL090419GW004	82/19-20/13648	Page No. 1/1				
Customer	Nabha Power Limited					
	PO Box 28, Near Village-Nalash					
	Dist Patiala , Rajpura-140101					
Work Order No. & Date	NPL/47000-06931 Dated 18/09/2018					
Type of Sample	Ground Water					
de of Collection of Sample	Sampling by laboratory					
Date of Sampling	09/04/2019					
Sampling Location	Piezometer Well No. 4 (70-80 feet)					
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1					
Packing, Markings, Seal & Quantity	Plastic Bottle & Glass Bottle Marked 3/09/04' 2litre + 250ml					
Date of Receipt of Sample	09/04/2019					
Period of Analysis	09/04/2019 To 15/04/2019					
Date of Reporting	15/04/2019					
Sample Observation	Colourless liquid with suspended & settleable particles.					

RESULTS

			ILLOUL		
S.No.	Test Parameter	Units	Results	Test Method	
1	Total Dissolved Solids	mg/L	366	APHA-23rd Ed 2017- 2540C	
2	Total Suspended Solids	mg/L	39	APHA-23rd Ed 2017- 2540 D	
-)	pH		7.59	APHA-23rd Ed 2017-4500B	
4	Arsenic as As	mg/L	BDL(DL 0.01)	APHA-23rd Ed 2017-3114C	
5	Chromium as Cr	mg/L	BDL(DL 0.05)	APHA-23rd Ed 2017-3111B	
6	Lead as Pb	mg/L	BDL(DL 0.01)	APHA-23rd Ed 2017-3111B	
7	Mercury as Hg	mg/L	BDL(DL 0.0005)	APHA-23rd Ed 2017-3112B	

Remarks (if any) BDL=Below Detection Limit; DL= Detection Limit Please refer Terms & Conditions overleaf

Lab Incharge

End of Report

Dr. Roomk Kumar, Authorized Signatory-Chemical

Format no F/7 8 2;15.11.2018

Green Belt Photographs

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 is 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 stock pile area



Pic-2 Green belt around plant premises



Pic-3 Green belt along boundary



Pic-4 Green belt on both sides of road

CSR Report

Nabha Power Limited

Corporate Social Responsibility April- September 2019

NABHA POWER LIMITED

April 2019

Blood Donation Camp





Blood camp had been organized at Vill Bhappal in association with Youth Club and community people. A medical team from Govt. Medical College Sec-32, Chandigarh collected 74 units of blood. NPL facilitated the camp by making necessary arrangements Tentage, Refreshments, token of appreciation to Blood donors.

NABHA POWER LIMITED

Road Safety Drive





Road Safety drive in association with Traffic Police and Market committee officials Rajpura. Considering the ongoing wheat harvesting season, drive was conducted at Grain market where large number of Tractor trollies were covered to put reflective stickers. More than 400 vehicles were covered under the drive.

Support to Govt Health Centers for Medical Tools





To strengthen functioning of existing 7 Govt. Sub Health Centers of surrounding area, 42 ANMs/Asha workers had been provided basic health checkup tools which include Digital Thermometer, Digital BP Apparatus, Digital weighing machine Baby/Adult. ANMs/Asha workers work at grass root level & facilitating the rural people for basic health services.

Distribution of School Bags to needy Children



To help the needy children for basic leaning material, NPL distributed school bags along with geometry boxes to 1000 school children covering 14 Govt. schools of surrounding villages.



Support under Welfare Schemes



Support extended to 35 families under NPL CSR Welfare schemes. 26 families supported under shagan, Similarly 09 families had been provided financial under female child scheme.

May-2019

Skill Development

25 girls/women completed a one week advanced training in Beautician and hair therapy at Orane International Beautician institute at Rajpura. Participants were awarded certificates on the completion of training program.





Renovation of Dharamshala

Existing Dharamshala building renovated and facelifted by conducting whitewash. Now being utilized for NPL Skill Training Center and Aganwari Center.





Welfare Schemes

Welfare	Beneficiaries	Amount
Scheme	(May)	(Lac)
Female Child	10	2.10
Shagan Scheme	13	2.73
Total	07	4.83



Female Welfare





Support extended during month

Shagan Scheme:-26 Female Child:-09 Total:- 35

Rural Development

Cleaning of drains/Ponds

Purpose:- Cleaned the drains/ponds to avoid flooding during the monsoon season

Village	Location
Cholti Kheri	Toe drain along with fields near bridge no.12
Naina	Outlet for village waste water
Sadhror	Rain water drain and Pond

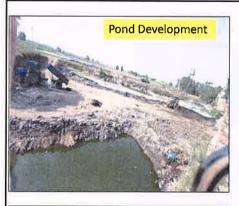


Support to 8 Govt. Sub Health Centers for Staff/Patients furniture



SR.	ITEM	UG	ВНАРРА	JANSU	MIRZAPUR	KHAROL	BADALI MAI	ALUN	Kotla	TOTA
NO		ANI	L	1		Α	KI	Α		L
1	EXAMINATION TABLE	1	1	1	1	0	1	1	1	7
	WITH SCREEN & MATTRES									
2	REVOLVING CHAIR	1	1	1	1	1	1	1	1	8
3	LONG BENCH WITH BOX	1	1	1	1	1	1	1	1	8
4	REVOLVING STOOL	1	1	1	1	1	1	1	2	8
5	CHAIRS	10	4	4	4	4	4	4	4	38
7	ALMIRAH LARGE	6	2	6	5	5	6	8	2	40
8	STEEL THREE JOINT CHAIR	1	1	1	1	0	1	1	2	8

June-2019



June/2019

Considering the coming Monsoon season drains/ponds have been cleaned to avoid flooding and increase the rain water storage capacity.



June/2019

To strengthen the functioning of existing govt health centers, NPL provided basic medical check up tools and furniture to 8 Sub Health Centers located in surrounding villages of plant site



To spread awareness about the road safety and the traffic rules, NPL conducted a Road Safety drive in association with Traffic Police and Market committee officials Rajpura.



50 families from 27 village had been extended support under NPL CSR Welfare schemes (Shagan Scheme and Female child Welfare Scheme)

Welfare Schemes

Welfare Scheme	Beneficiaries	Amount (Lac)
Female Child	22	4.62
Shagan Scheme	08	1.68
Total	30	6.30

Female Child



Shagan Scheme



July-2019

Skill Development Centre's

Running 11 skill development centre's in 11 villages. Out of 11 centre's 9 are stitching & 2 are beautician centre's. Where 400 students (approx.,.) will be trained in 1 year.





Skill Development

I year full time Electrician course through NSIC, Rajpura

Training will enable to get the job in the industry or they can start their own small business.



Learning Enrichment Program in 10 Govt Primary Schools

Learning Enrichment Program started in 10 Government Primary Schools to enables slow learners and academically weaker students in Math and English, thereby creating a fulfilled, interactive learning atmosphere for students.



August-2019

2nd Cancer check-up camp

- Vill Badali Mai Ki date 25th August
- In association with World Cancer Care
 Charitable Trust and village panchayat/youth
 club members
- Camp witnessed footfall of approximately 600 people from the nearby villages
- Conducted cancer check-up like mammography, oral cancer, bone density, blood cancer, prostate cancer, pap smear and general medical check-up.
- Also shared the common symptoms of various cancers and its general causes.





Plantation Drive

To contribute towards environment conservation, on 17th august 2019, Nabha Power Limited organized a Tree plantation drive at vill. Naina in the presence of panchayat members and community people. In this drive, 10,000 fruit-bearing saplings were distributed in 20 villages. This was a dual-purpose initiative which not only contribute to the environment but will also give a source of income to farmers/panchayats after a period of time.





Youth Dialogue

- An interaction program with Youth belongs to our surrounding villages of plant site organized on 9th august 2019.
- To interact with youth and extract their ideas towards their contribution in various CSR activities like promotion of Sports, Drug De-addiction, Blood donation Camps, Plantation etc.
- Motivated them to contribute in the field of Education, Health, Sports or other social activities.
- Renowned resource persons were also invited who have done significant work in Youth leadership/development.





Pilot Project of Jute

Under CSR initiatives, a training program on jute products was planned in the month of June 2019. The agenda for this training is to provide livelihood to our women in nearby villages of NPL. Training program has been started in village Nalash Khurd from August 2019. In which a batch of 30 students has been enrolled. A trainer (Ms. Mukesh Rani) has been hired for this training. She will give training of various products of jute to our students/artisans. This training is planned for 1 year and minimum time for producing the product with market acceptability is fixed within 3 months.

Simultaneously we are coordinating with professional agencies (Lal10 & AIACA) to conduct this training through master trainers. These agencies will provide us the linkage to the market.





Skill Development

Exhibition by Women Self Help Group at NPL.

Date - 14 August 2019
Products/Items – Pickle, Desi Ghee,
Spices, Jute Bags, Phulkari Dupatta,
Woollen Items and other decorated
items.

Total Sale - Rs. 6545



Welfare Schemes

In the month of August, under CSR initiatives we have supported 9 families from 7 villages under shagan & female child scheme

Shagan Scheme

Female Child





September-2019

2nd Blood Donation Camp





2nd Blood camp cum Medical Check camp had been organized at Vill Jansui in association with Youth Club and community people. Medical team from Govt.Rajindra Hospital, Patiala collected 97 units of blood while a team of doctors from Gian Sagar Medical College Banur conducted free medical check up . NPL facilitated the camp by making necessary arrangements Tentage, Refreshments, token of appreciation to blood donors.

Dental & Eye Check up Camp

General Dental & Eye check-up camp organized at village Basantpura , where 550 patients visited and availed the services of the free medical heath check-up camp. During the camp, free health checkup was also done for Diabetes, Blood Pressure . The camp was organized with association of specialized team of doctors from Gian Sagar Hospital, including Eyes & dental specialists, general physicians and trained nursing staff.





Welfare Schemes

Support of Rs.21,000 (each) to needy families under Shagan and Female Child Scheme

No. of cases processed :- 92 families





Ambient Air Quality Monitoring Results



CIN: U74140PB2011PTC034739



ld for Consent Purpose



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

TEST	R	FP	0	RT
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ULR No.	NA	Test Report No.	EL130919GA010
Type of Sample	Ambient Air	Date of Reporting	17/09/2019

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	10/09/2019 to 11/09/2019	Date of Receipt of Sample	13/09/2019	
Sampling Location	Near NDCT	Period of Analysis	13/09/2019 to 17/09/2019	
Testing Protocol IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009			Clear Weather	

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m³	74	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	µg/m³	41	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	µg/m³	14	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	27	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	μg/m³	20	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	μg/m³	25	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.76	04	IS 5182 Part-10:1999, RA 2014
8.	Lead (Pb)	μg/m³	0.13	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	μg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2014

Remarks

Sample compiles with prescribed standards

Other Information

Abbreviations

: DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality Series, NAAQS- National Ambient Air Quality Standards

*Non NABL

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 -AA -02.09.19 Rev 03

Dr. Sandeep Garg Authorized Signatory-Chemical



JAS-ANZ
-C



CIN: U74140PB2011PTC034739

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

TEST REPORT

Not Valid for Consent Purpose

ULR No.	NA	Test Report No.	EL130919GA011	
Type of Sample	Amblent Air	Date of Reporting	17/09/2019	

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18	
	Distt. Patiala	Customer reference No. (If any)	NA	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	10/09/2019 to 11/09/2019	Date of Receipt of Sample	13/09/2019	
Sampling Location	Near Loco Shed	Period of Analysis	13/09/2019 to 17/09/2019	
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009	Environmental Conditions	Clear Weather	

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m³	77	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	μg/m³	46	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	μg/m³	15	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	µg/m³	31	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	μg/m³	21	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	μg/m³	26	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.71	04	IS 5182 Part-10:1999, RA 2014
8.	Lead (Pb)	μg/m³	0.11	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	µg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2014

Remarks

: Sample complies with prescribed standards

Other information Abbreviations

: DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Series, NAAQS- National Ambient Air Quality Standards

Note

*Non NABL

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 -AA -02.09.19 Rev 03

Dr. Sandeep Garg Authorized Signatory-Chemical



04144-80.09.2011

Eco Laboratories & Consultants Pvt. Ltd.



CIN: U74140PB2011PTC034739

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

TEST REPORT

Not Valid for Consent Purpose

		LOTINETOIN		
ULR No.	NA	Test Report No.	EL130919GA009	
Type of Sample	Ambient Air	Date of Reporting	17/09/2019	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	10/09/2019 to 11/09/2019	Date of Receipt of Sample	13/09/2019
Sampling Location	Near Storm Sump-2	Period of Analysis	13/09/2019 to 17/09/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009		Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m³	77	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	μg/m³	46	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	µg/m³	17	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	29	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	μg/m³	20	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	μg/m³	25	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.73	04	IS 5182 Part-10:1999, RA 2014
8.	Lead (Pb)	μg/m³	0.10	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (NI)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	μg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2014

Other Information

Abbreviations

Note

DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Serles, NAAQS- National Ambient Air Quality Standards *Non NABL

Terms & Conditions

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Dr. Sandeep Garg Authorized Signatory-Chemical



CIN: U74140PB2011PTC034739



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Dated-30,09,20%.

TEST REPORT

	EOT IVEL OIL		
NA	Test Report No.	EL130919GA008	
Ambient Air	Date of Reporting	17/09/2019	
	NA	NA Test Report No.	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (if any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	10/09/2019 to 11/09/2019	Date of Receipt of Sample	13/09/2019
Sampling Location	Near Switch yard	Period of Analysis	13/09/2019 to 17/09/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009	Environmental Conditions	Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1,,	Particulate Matter (PM ₁₀)	μg/m³	78	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	μg/m³	46	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	µg/m³	16	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	30	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	µg/m³	18	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	μg/m³	24	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.69	04	IS 5182 Part-10:1999, RA 2014
8.	Lead (Pb)	µg/m³	0.12	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	µg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2014

Remarks

Sample complies with prescribed standards

Other Information
Abbreviations

: DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Note

*Non NABL

Terms & Conditions

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

Series, NAAQS- National Ambient Air Quality Standards

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Dr. Sandeep Garg Authorized Signatory-Chemical



CIN: U74140PB2011PTC034739





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TEST REPORT

Nuclealid for Consent Purpose

ULR No.	NA	Test Report No.	EL130919GA006	
Type of Sample	Ambient Air	Date of Reporting	17/09/2019	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	10/09/2019 to 11/09/2019	Date of Receipt of Sample	13/09/2019
Sampling Location	Vill. Dabhali	Period of Analysis	13/09/2019 to 17/09/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009	Environmental Conditions	Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1	Particulate Matter (PM ₁₀)	μg/m³	72	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	μg/m³	40	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	μg/m³	12	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	25	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	μg/m³	21	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	μg/m³	25	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.59	04	IS 5182 Part-10:1999, RA 2014
8.	Lead (Pb)	μg/m³	BDL(DL0.04)	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickei (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	μg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2014

Remarks

: Sample complies with prescribed standards

Other Information Abbreviations

: DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Series, NAAQS- National Ambient Air Quality Standards

Note

*Non NABL

Terms & Conditions

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CIN: U74140PB2011PTC034739



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TEST REPORT

ULR No.	NA	Test Report No.	EL130919GA007	
Type of Sample	Ambient Air	Date of Reporting	17/09/2019	

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	10/09/2019 to 11/09/2019	Date of Receipt of Sample	13/09/2019
Sampling Location	Vill. Salempur	Period of Analysis	13/09/2019 to 17/09/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009		Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m³	70	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	μg/m³	41	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	μg/m³	14	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	27	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	µg/m³	20	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	µg/m³	23	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.65	04	IS 5182 Part-10:1999, RA 2014
8.	Lead (Pb)	μg/m³	BDL(DL0.04)	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	μg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2014

Remarks
Other Information

Sample complies with prescribed standards

Abbreviations

DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Series, NAAQS- National Ambient Air Quality Standards

Note

*Non NABL

Terms & Conditions

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Dr. Sandeep Garg Authorized Signatory-Chemical



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CIN: U74140PB2011PTC034739

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

TEST REPORT

ULR No.	NA	Test Report No.	EL130919GA012	
Type of Sample	Ambient Air	Date of Reporting	17/09/2019	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	10/09/2019 to 11/09/2019	Date of Receipt of Sample	13/09/2019
Sampling Location	Vill. Dadumajra	Period of Analysis	13/09/2019 to 17/09/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009	Environmental Conditions	Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m³	73	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2,5})	μg/m³	38	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	µg/m³	13	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	25	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	µg/m³	18	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	μg/m³	22	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.62	04	IS 5182 Part-10:1999, RA 2014
8.	Lead (Pb)	μg/m³	BDL(DL0.04)	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	μg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2014

Remarks

Sample complies with prescribed standards

Other Information

Abbreviations

: DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Series, NAAQS- National Ambient Air Quality Standards

Note

*Non NABL

Terms & Conditions

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TEST REPORT

ULR No.	NA	Test Report No.	EL200619GA008	
Type of Sample	Ambient Air	Date of Reporting	27/06/2019	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	P.O 8ox 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	18/06/2019 to 19/06/2019	Date of Receipt of Sample	20/06/2019
Sampling Location	Near NDCT	Period of Analysis	20/06/2019 to 26/06/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009	Environmental Conditions	Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m³	77	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	μg/m³	43	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	μg/m³	14	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	26	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	μg/m³	34	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	μg/m³	25	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.58	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8.	Lead (Pb)	μg/m³	BDL(DL0.04)	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	μg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2017

Other Information

Sample complies with prescribed standards

Abbreviations

DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Series, NAAQS- National Ambient Air Quality Standards

Note

Remarks

*Non NABL

Terms & Conditions

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Dr. Rai Singh Authorized Signatory-Chemical







CIN: U74140PB2011PTC034739

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TEST REPORT

ULR No.	NA	Test Report No.	EL200619GA006	
Type of Sample	Ambient Air	Date of Reporting	27/06/2019	

Customer Nabha Power Limited		Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	18/06/2019 to 19/06/2019	Date of Receipt of Sample	20/06/2019
Sampling Location	Near Loco Shed	Period of Analysis	20/06/2019 to 26/06/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009	Environmental Conditions	Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m³	79	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	μg/m³	47	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	μg/m³	12	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	26	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	µg/m³	35	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	μg/m³	24	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.66	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8.	Lead (Pb)	μg/m³	BDL(DL0.04)	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	μg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2017

Remarks

Sample complies with prescribed standards

Other Information Abbreviations

DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Series, NAAQS- National Ambient Air Quality Standards

Note

*Non NABL

Terms & Conditions

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TEST REPORT

ULR No.	NA	Test Report No.	EL200619GA005	
Type of Sample	Ambient Air	Date of Reporting	27/06/2019	

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	18/06/2019 to 19/06/2019	Date of Receipt of Sample	20/06/2019
Sampling Location	Near Switch Yard	Period of Analysis	20/06/2019 to 26/06/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009	Environmental Conditions	Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m ³	76	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	µg/m³	43	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	µg/m³	15	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	µg/m³	26	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	µg/m³	38	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	µg/m³	26	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.69	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8.	Lead (Pb)	μg/m³	BDL(DL0.04)	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	μg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2017

Remarks

: Sample complies with prescribed standards

Other Information Abbreviations

DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Serles, NAAQS- National Ambient Air Quality Standards *Non NABL

Note
Terms & Conditions

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

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TEST REPORT

ULR No.	NA	Test Report No.	EL200619GA007	
Type of Sample	Ambient Air	Date of Reporting	27/06/2019	

Customer	Nabha Power Limited P.O Box 28, Near Vill. Nalash	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	18/06/2019 to 19/06/2019	Date of Receipt of Sample	20/06/2019
Sampling Location	Near Storm Water Sump	Period of Analysis	20/06/2019 to 26/06/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009	Environmental Conditions	Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

5. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m ³	71	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2,5})	μg/m³	40	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	μg/m³	13	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	24	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	μg/m³	37	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	µg/m³	24	180	IS:5182 (P-9):2006 RA 2014
7,	Carbon Monoxide (CO)	mg/m³	0.68	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8.	Lead (Pb)	μg/m³	BDL(DL0.04)	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m ³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	µg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2017

Remarks

Sample complies with prescribed standards

Other Information Abbreviations

DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Series, NAAQS- National Ambient Air Quality Standards

Note

*Non NABL

Terms & Conditions

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TEST REPORT

ULR No.	NA	Test Report No.	EL210619GA003	
Type of Sample	Ambient Air	Date of Reporting	27/06/2019	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No.	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	20/06/2019 to 21/06/2019	Date of Receipt of Sample	21/06/2019
Sampling Location	Vill. Dabhali	Period of Analysis	21/06/2019 to 27/06/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009	Environmental Conditions	Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m³	70	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	μg/m³	38	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	μg/m³	12	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	22	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	μg/m³	37	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	μg/m³	23	180	IS:5182 (P-9):2006 RA 2014
7::	Carbon Monoxide (CO)	mg/m³	0.61	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8.	Lead (Pb)	μg/m³	BDL(DL0.04)	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	μg/m³	8DL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2017

Remarks

Sample complies with prescribed standards

Other Information Abbreviations

DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Series, NAAQS- National Ambient Air Quality Standards

Note

*Non NABL

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TEST REPORT

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

ULR No.	NA	Test Report No.	EL210619GA001	
Type of Sample	Ambient Air	Date of Reporting	27/06/2019	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	20/06/2019 to 21/06/2019	Date of Receipt of Sample	21/06/2019
Sampling Location	Vill. Salempura	Period of Analysis	21/06/2019 to 27/06/2019
Testing Protocol IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009		Environmental Conditions	Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m³	71	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	μg/m³	40	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	µg/m³	12	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	26	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	µg/m³	36	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	µg/m³	24	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.65	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8.	Lead (Pb)	µg/m³	BDL(DL0.04)	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	µg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2017

Remarks

: Sample complies with prescribed standards

Other Information

Abbreviations

DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Series, NAAQS- National Ambient Air Quality Standards

Note

*Non NABL

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TEST REPORT

ULR No.	NA	Test Report No.	EL210619GA002	
Type of Sample	Ambient Air	Date of Reporting	27/06/2019	

Customer	Nabha Power Limited	Work Order No. & Date	NPL/47000-06931 Dt.18/09/18
	P.O Box 28, Near Vill. Nalash Distt. Patiala	Customer reference No. (If any)	NA
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines (NAAQMS/36/2012-13)	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	20/06/2019 to 21/06/2019	Date of Receipt of Sample	21/06/2019
Sampling Location	Vill. Dadumajra	Period of Analysis	21/06/2019 to 27/06/2019
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) & NAAQS 2009	Environmental Conditions	Clear Weather

TEST RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S. No.	Test Parameter	Units	Results	Standards (NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	μg/m³	73	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	μg/m³	42	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur DioxIde (SO ₂)	μg/m³	12	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	μg/m³	23	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	μg/m³	40	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	μg/m³	22	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m³	0.67	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8.	Lead (Pb)	μg/m³	BDL(DL0.04)	1.0	IS:5182 (P-22):2004 RA 2014
9.	Arsenic (As)	ng/m³	BDL(DL1)	06	Lab SOP EL/SOP/AAQ/04
10.	Nickel (Ni)	ng/m³	BDL(DL10)	20	Lab SOP EL/SOP/AAQ/04
11.	Benzene (C ₆ H ₆)*	μg/m³	BDL(DL5)	05	IS:5182 (P-11) 2006 RA 2017
12.	Benzo-a-pyrene (BaP), Particulate Phase Only	ng/m³	BDL(DL1)	01	IS:5182 (P-12) 2004 RA 2017

Remarks

Sample complies with prescribed standards

Other Information Abbreviations

3

DL- Detection Limit, BDL- Below Detection Limit, ULR-Unique Lab Report, NAAQMS- National Ambient Air Quality

Series, NAAQS- National Ambient Air Quality Standards

Note

*Non NABL

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