

Npl Environment

From: Rajiv Bhandari
Sent: 29 May 2021 17:49
To: eecompliance-nro@gov.in; EERO (eero_patiala@yahoo.com); sanjeevpaliwal.cpcb@nic.in
Cc: Npl Environment; Vipin Madhukarrao Gandhare
Subject: Six Monthly Environment Clearance Compliance Report for the Period of 1st October 2020 to 31st March 2021
Attachments: Six Monthly EC Compliance report Oct-20 to Mar-21.pdf

Dear Sir,

Please find attached Six Monthly Environment Clearance Compliance Report of M/s Nabha Power Ltd., Vill. Nalash, Distt- Patiala (Punjab) for the period from 1st October 2020 to 31st March 2021.

Hope you will find the same in order.

Thanks and Regards,

 **LARSEN & TOUBRO**
It's all about Imagination

RAJIV BHANDARI

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SAFETY - Stay Alert For Every Task You do..



NABHA POWER LIMITED

NPL
Nabha Power Limited

P.O. Box No -28, Near Nalash, Rajpura-140401, Punjab

Phone: 01762-277252 • Fax: 01762-277251

Email ID: rajiv.bhandari@larsentoubro.com

Letter.No.: NPL/HSE/RB/MoEFCC/DR/210529/1

Date 29.05.2021

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 and Extension dated 5th February 2014.

Sub: Six Monthly Environment Clearance Compliance Report for the Period of 1st October 2020 to 31st March 2021.

Dear Sir,

Please find enclosed Six-Monthly Environment Clearance Compliance Report of M/s Nabha Power Ltd., Vill. Nalash, Distt- Patiala (Punjab) for the period from 1st October 2020 to 31st March 2021.

Thanking you,

Yours Sincerely,


(Rajiv Bhandari)

Authorised Signatory
Nabha Power Limited

Encl: As above.

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

Wholly Owned by L&T

Corporate Office: L&T House, N M Marg, Ballard Estate, Mumbai 400 001

CIN No: U40102PB2007PLC031039

**SIX MONTHLY COMPLIANCE REPORT
OF ENVIRONMENTAL CLEARANCE**

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



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

Submitted to:

**MINISTRY OF ENVIRONMENT, FORESTS AND
CLIMATE CHANGE**

New Delhi-110003

and

Regional Office (Northern Region)

Chandigarh-160030

Central Pollution Control Board, Delhi

Punjab State Pollution Control Board, Patiala

Submitted By:

NABHA POWER LIMITED

**VILL. NALASH
PATIALA (PUNJAB)**

Period: 1st October-2020 to 31st March-2021

Sl. No.	Title	Annexure
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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 1 st Feb 2014
	Unit 2 Operational since 10 th July 2014

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

Compliance Report for the period of October-2020 to March-2021

S. No.	MOEF Conditions	Compliance Status
1.	The total land requirement for the project shall be restricted to 1278 acres.	The land requirement for 1400 MW has been restricted within 1278 acres only.
2.	Prior clearance from the competent authority shall be obtained for locating the proposed power plant in proximity (about 3 kms) of the defence installation. A copy of the same shall be furnished to the ministry and the regional office of this ministry within one month from the date of issue of this clearance letter.	NOC from Ministry of defence & AAI obtained on 25 th May, 2009, Ref No.:No. 21(7)/2008/D(Coord) & 22 nd 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 and NABL 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/m ³ .	The ESP's attached to Boiler 1 & 2 are functional and have efficiencies more than 99.99%. The SPM emissions are < 50 mg/Nm ³ . The stack Emission Monitoring Reports from MoEF & CC and NABL approved laboratory is attached here as Annexure-3
6.	Space provision shall be kept for retrofitting for FGD, if required at later date.	• Installation of FGD is under progress.
7.	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	The Dust extraction system & Dust suppression system (water sprinklers) is operational in the coal handling area, ash handling and at all transfer points. The photographs of the same is attached here as 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 Regional Office PPCB, MoEF&CC and CPCB on six monthly basis. Ash utilization report for the period from 1st Oct'20 to 31st Mar' 21 is attached here as Annexure-5 Analysis of heavy metals is being done for both bottom & fly ash on six monthly basis. Latest reports are attached as Annexure-6
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 microns thick) over 50 mm thick sand cushion and top of HDPE liner is protected with 300 mm earth cover.
10.	Closed cycle cooling system with cooling towers shall be provided. Effluents shall be treated as per the prescribed norms.	Complied.

11.	The treated effluents conforming to the prescribed standard shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during Monsoon. Arrangement shall be made that effluent & storm water do not get mix.	The Power plant is based on Zero Discharge (ZLD) concept and the treated effluents conforming to prescribed standards are being re- circulated and reused within the Plant. There is no discharge outside the plant boundary.
12.	A Sewage Treatment Plant shall be provided, and treated sewage shall be used for raising green belt/plantation.	The Sewage treatment plant of 50 KLD capacities is in operation. The treated water is being used for Green belt development/Plantation. The treated effluent report is attached as Annexure-7
13.	Rainwater harvesting should be adopted. Central Ground Water Authority/board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Rainwater harvesting pits have been made as per the Rainwater 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 been implemented to check/minimize spontaneous fire in coal yard.
15.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of project.	Adequate arrangements were made for construction labour such as toilets, STP, safe drinking water, medical health care etc. during project state.
16.	Storage facilities for liquid fuel such as LDO and HFO/LSHS shall be made in the plant area where risk is minimum to the storage facilities. Onsite and off-site disaster management plan shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modification required, if any shall be incorporated in the DMP.	The Storage tanks for LDO & HFO storage have been made after necessary risk assessment. On-site disaster management plan is prepared, and the adequacy of the Plan is being tested on regular basis through conducting mock drills.
17.	Regular monitoring of ground water in and around ash pond area shall be carried out, records maintained, and six-monthly reports shall be furnished to Regional Office, Chandigarh.	Regular monitoring is being done and reports are being submitted to MOEF & PPCB on six monthly basis. Latest reports are attached as Annexure-8
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 photographs are attached as Annexure-9
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. 442.00 lakhs have been spent during FY-20-21 against the set target of Rs.440 lakhs. Details are attached as Annexure-10
20.	First aid & sanitation arrangement shall be made for the drivers and other contract workers during construction phase.	First aid centre (OHC) & adequate sanitation arrangement are available for employees as well as contractual employees.
21.	Noise level emanating from turbines shall be limited to 75 dB (A). For people working in the high noise area, requisite personal protective equipment like Earplug/earmuffs 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 , NO _x , SPM, RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of the monitoring shall be decided in consultation with SPCB. Periodic report to be submitted to Regional office of this Ministry.	Monitoring reports are regularly being submitted to Regional office of Ministry and PPCB. Latest reports are attached as Annexure-11
23.	The project proponent shall advertise in two local newspaper widely circulated in the region around the project, one of which shall be in the vernacular language of the locality/Municipal area/Gram Panchayat concerned and on the company's website within seven days from the date of clearance letter, informing that the project has been accorded environment clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at website of the ministry of Environment and forests at http://envfor.nic.in .	Complied.
24.	A separate Environment Management Cell with qualified staff to be set up for implementation of the stipulated environmental safeguards.	EMC comprising of qualified staff with adequate experience and knowledge is in place to cater environmental responsibilities.
25.	Half yearly report on status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/Regional Office/CPCB/SPCB.	Being Complied.
26.	Regional office of the Ministry of Environment & Forests located at Chandigarh will monitor implementation of stipulated conditions. A complete set of documents including EIA report & EMP report along with additional information submitted from time to time shall be forwarded to the regional office for their use during monitoring.	Complied.
27.	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These costs shall be included as part of project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes & year wise expenditure should be reported to Ministry.	Being Complied
28.	The project authorities shall inform the regional office as well as the Ministry regarding the date of financial closure and final approval of project by concerned authorities and the dates of start of land development work and commissioning of plant.	Plant is in Operation and generation capacity is 1400 MW
29.	Full co-operation should be extended to the scientists/officers from the Ministry/Regional office of the Ministry at Chandigarh/the CPCB/the SPCB who would be monitoring compliance of environmental status.	The NPL is providing full co-operation to the scientists/officers from the Ministry/Regional office of the Ministry at Chandigarh/the CPCB/the SPCB who are monitoring compliance of environmental status, time to time.
30.	No additional coal consumption beyond 5.8 MTPA (at 85 % PLF) earlier envisaged for 2 x 660 MW and no additional land for the enhanced capacity shall be permitted.	Being Complied.
31.	The project proponent shall upload the status of compliance of the conditions stipulated in the environmental clearance issued vide Ministry's letter of even no. dated 03.10.2008, in its website and update	NPL website is live & the compliance reports are uploaded periodically on website. Website address: http://www.ltnabhapower.com

	periodically and also simultaneously send the same by email to regional office of Ministry of Environment and Forests.	
32.	Critical pollutants levels including NO _x , 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 undertaken 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 radioactivity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Radioactive and Heavy metal contents in coal, fly ash and bottom ash are being analysis on six monthly basis. Latest reports are attached as Annexure-6,13 &14
35	Exit velocity of flue gases shall not be less than 22 m/s. Mercury emissions from stack shall also be monitored on periodic basis.	The exit velocity of flue gases is more than 22 m/s. Mercury emissions from the stack is regularly monitored and the reports are being submitted to MOEF&CC on periodic basis. Latest reports are attached as 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.	For Nabha Power Limited the source of water is Bhakhra Canal and necessary permission in this regard was taken from Irrigation Department, Punjab and was submitted with your kind office before grant of Environmental Clearance. When we had applied for Extn. of EC, our plant was already Commissioned, and we were having valid Consent to Operate from State Pollution Control Board. 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.	The Hydrogeology study of the area was conducted before grant of EC by MOEF&CC. No Ground Water abstraction is being done. We are only using Canal water for generation of Power. 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.
42	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for fly ash utilization without adequate lining of mine with suitable 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	Fly ash is being utilized as per the Notification from MoEF&CC.

	lining shall be ascertained by the State Pollution Control Board and implementation done in close coordination with the State Pollution Control Board	
43	Green belt consisting of 3 tiers of plantations of native species around the plant and at least 100m width shall be raised. Wherever 100m width is not feasible a 50 m width shall be raised, and adequate justification shall be submitted to Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 75 %.	Complied. The Green Belt Development photographs are attached as 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.	<p>For villages</p> <ul style="list-style-type: none"> - NPL has taken various initiatives for development of the surrounding villages and community stakeholders like construction of concrete roads (8 villages), EWS Housing (7 villages), Parks (2 villages), Community shed (1 village). Also, undertake two schools for construction of additional classrooms and covered 3 schools for renovation and necessary infrastructure repair. - Supporting the Primary school children by enhancing their learning level in Math/English subjects, for this volunteer teachers have been provided in 10 Govt. Primary Schools. - Under development of water bodies/natural drains, Pond rejuvenation project has taken up in village Salempur, apart from this cleaning of village ponds/natural drain have been carried out in 7 villages. - Under Skill development, 321 women/girls have been imparted skill training on Stitching/ Beautician/Jute/ Phulkari. - Under welfare schemes 290 families have been supported with financial assistance. - Road safety cum distribution of mask drive has been carried out in association with police officials of Rajpura, Banur, Patiala. - Two Cancer camps were organized at village Rai Majra and Basantpura. - 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.
47	An amount of Rs 22 Crores shall be earmarked as one-time capital cost for CSR program. Subsequently a recurring expenditure of Rs 4.4 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with the road map for implementation.	<p>CSR spent for last three years</p> <ul style="list-style-type: none"> - 2018-19: - 440 Lacs - 2019-20: - 440 Lacs - 2020-21: - 442 lacs
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	<p>Complied.</p> <p>Presently working in 49 villages (radius of 5 kms).</p> <p>All schemes are being implemented in the target villages in coordination with village panchayats.</p> <p>- Annual Panchayat meeting could not hold due to Covid</p>

	employable youth and eventual employment in the project after imparting relevant training shall also be undertaken. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program. Company shall provide separate budget for community development activities and income generating programs. Vocational training program for possible self-employment and jobs shall be imparted to identify villagers free of cost.	guidelines, however, works undertaken during the period were routed through the concerned village panchayats and their requests. - 18 youth have been sponsored for one-year Electrician course from National Small-Scale Industry Corporation (NSIC) and were awarded certificate on successful completion. - 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 discuss and implement projects identified. - Social Audit of FY-18-19 & 19-20 has been completed and received the report and process of Social Audit FY 20-21 has been initiated.
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-8
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. Latest reports are attached as Annexure-12 We are already monitoring Heavy metals in Ground Water by taking sample thru Piezometer on monthly basis and submitting the respective reports to Regional office of the ministry at Chandigarh. Latest reports are attached as Annexure-8
53	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Complied. Last Environmental Report was submitted On 29.09.2020 to Regional Office of the Ministry at Chandigarh and PPCB, Patiala.
54	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	HSE Policy has been framed and accordingly officers have been designated for achieving the objectives by adherence to the Policy. We are certified for Integrated Management System requirements (ISO 9001, 14001 & 45001 & 50001)

Annexure – 1

Test Report of Sulphur % in Coal

Test Report


Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. : F01-2103150530 Sample Reg. Date : 15-03-2021 Report Date : 22-03-2021 Report No. : ICE-2103220906 Customer Ref. No. : PO Letter Dated : 01.12.2020
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Test Report as per IS: Party Specification	With Amendment No.(s):
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PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Coal Sample
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values, if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	500gm
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in poly pack
l)	Date of Receipt	15-03-2021
m)	Date of Start	15-03-2021
n)	Date of Completion	22-03-2021
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. on 13.03.2021
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLEMENTARY INFORMATIONS

a.	Reference to sampling procedure, whenever applicable	: N/A
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Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

Phone : (O) 0172-2561543, 2565825

Visit us : www.itclabs.com Email : customersupport@itclabs.com

Disclaimer :

- Sample (s) not drawn by us unless otherwise stated.
- Total Liability of this Laboratory is limited to the Invoiced amount.
- Test certificates in full or parts shall not be used for promotional or publicity purpose.
- If sample is not consumed during analysis, it will be stored as per required storage condition.

Test Report

Document QF : 2501

Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103150530 Sample Reg. Date :15-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220906 Customer Ref. No.: PO Letter Dated :01.12.2020
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b. Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any : N/A
c. Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any : N/A

PART C : TEST RESULTS

Description


Description		Coal Sample	
S.No.	Test Parameter	Method	Result
Test Details :			
1.	General Parameters		
a.	Sulphur, (% by mass)	IS: 1350 (P-3)	0.23

represents Customer Defined Fields

NOTE : NA- Not Applicable,

PART D : REMARKS :N/A

*****End Of Report*****


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

Phone : (O) 0172-2561543, 2565825

Visit us : www.itclabs.com Email : customersupport@itclabs.com

Disclaimer :

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Annexure- 2

Test Report of Ash % in Coal

Annexure-2

Details of Average Ash Content in Coal in %

Month	Average Ash Content in Coal in %
October-2020	33.49
November-2020	34.54
December-2020	34.00
January-2021	33.46
February-2021	33.83
March-2021	33.67
Average	33.83

Annexure- 3

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

Test Report

Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012250821 Sample Reg. Date :25-12-2020 Report Date :30-12-2020 Report No. :ICE-2012301139 NABL ULR No. :TC592620000010627F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

Test Report as per	: EPA Act 1986/PCLS/2010
General Information	
Name of the emission source monitored	: Stack Emission of Boiler
(a) Rated Capacity	: 2322 Ton
(b) Capacity on sampling day	: 680 MW
(c) Type of fuel used & its consumption	: Coal
(d) Normal operating schedule	: 24 hrs
2. Stack Identification	: Stack attached to Boiler Unit-I (2322 Ton)
3.Type of Stack/Duct	: Metal
4.Stack Height from Ground Level(m)	: 275
Diameter of the Stack(cm)	: 750
(6) Sampling Duration(minutes)	: 29
Purpose of Monitoring	: For Self Monitoring
(8) Air Pollution control measure	: ESPs
(a) Status	: Working
(b) Recovery of Material	: -
(9) Fugitive Emission,if any	: Nil
Observations	
Flue Gas Temperature, °C,Avg.	: 114
Flue Gas Velocity(m/s),Avg.	: 23.73
Volumetric Flow Rate(Nm ³ /hr.)	: 2782374.01
Ambient Air Temperature, °C	: 16

TEST RESULTS				
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	General Parameters			
a.	Particulate Matter, mg/Nm ³ (Corrected at 6% O ₂)	IS:11255(P-1)	Max. 50	47
b.	Mercury(As Hg),mg/Nm ³	USEPA Method	Max. 0.03	BLQ(LOQ:0.01)

V Saini
Vikrant
30-12-2020
Reviewer

Saurabh
30-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012250821 Sample Reg. Date :25-12-2020 Report Date :30-12-2020 Report No. :ICE-2012301139 NABL ULR No. :TC592620000010627F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

c.	Carbon Monoxide(CO),% v/v	IS:13270	Max. 1.0	0.2
d.	Carbon Dioxide (CO ₂), %	IS:13270	Not Specified	10.8
e.	Sulphur Dioxide (SO ₂), ppm (Corrected at 6% Dry O ₂)	IS:11255(P-2)	Not Specified	342
f.	Oxides of Nitrogen (NO ₂), ppm (Corrected at 6% Dry O ₂)	IS:11255(P-7)	Not Specified	84

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per EPA Act 1986/PCLS/2010, Sample collected by lab rep. on dated 22.12.2020, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*****End Of Report*****

V Saini

Vikrant
30-12-2020
Reviewer

Saurabh

30-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012250822 Sample Reg. Date :25-12-2020 Report Date :31-12-2020 Report No. :ICE-2012311190 NABL ULR No. :TC592620000010647F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per	: EPA Act 1986/PCLS/2010
General Information	
Name of the emission source monitored	: Stack Emission of Boiler
(a) Rated Capacity	: 2322 Ton
(b) Capacity on sampling day	: 680 MW
(c) Type of fuel used & its consumption	: Coal
(d) Normal operating schedule	: 24 hrs
2. Stack Identification	: Stack attached to Boiler Unit-II (2322 Ton)
3.Type of Stack/Duct	: Metal
4.Stack Height from Ground Level(m)	: 275
Diameter of the Stack(cm)	: 750
(6) Sampling Duration(minutes)	: 30
Purpose of Monitoring	: For Self Monitoring
(8) Air Pollution control measure	: ESPs
(a) Status	: Working
(b) Recovery of Material	: -
(9) Fugitive Emission,if any	: Nil
Observations	
Flue Gas Temperature, °C,Avg.	: 116
Flue Gas Velocity(m/s),Avg.	: 22.97
Volumetric Flow Rate(Nm ³ /hr.)	: 2679415.89
Ambient Air Temperature, °C	: 16

TEST RESULTS

S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	General Parameters			
a.	Particulate Matter, mg/Nm ³ (Corrected at 6% O ₂)	IS:11255(P-1)	Max. 50	43
b.	Mercury(As Hg),mg/Nm ³	USEPA Method	Max. 0.03	BLQ(LOQ:0.01)

V Saini
Vikrant
31-12-2020
Reviewer

Saurabh
31-12-2020
Saurabh Sharma
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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Test Report

Document QF : 2501

Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012250822 Sample Reg. Date :25-12-2020 Report Date :31-12-2020 Report No. :ICE-2012311190 NABL ULR No. :TC592620000010647F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

c.	Carbon Monoxide(CO),% v/v	IS:13270	Max. 1.0	0.2
d.	Carbon Dioxide (CO ₂), %	IS:13270	Not Specified	11.4
e.	Sulphur Dioxide (SO ₂), ppm (Corrected at 6% Dry O ₂)	IS:11255(P-2)	Not Specified	350
f.	Oxides of Nitrogen (NO ₂), ppm (Corrected at 6% Dry O ₂)	IS:11255(P-7)	Not Specified	68

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per EPA Act 1986/PCLS/2010, Sample collected by lab rep. on dated 22.12.2020, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*****End Of Report*****

V Saini

Vikrant
31-12-2020
Reviewer

Saurabh

31-12-2020
Saurabh Sharma
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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PUNJAB POLLUTION CONTROL BOARD
AIR LABORATORY, HEAD OFFICE, VATAVARAN BHAWAN, PATIALA
 Email :- aso2airlab@gmail.com

Telefax 0175- 2302392

- | | |
|--|--|
| 1. Laboratory Sample No. | 860-61/H.O.Lab./Air/Monitoring/2020 |
| 2. Name of Industry | M/s Nabha Power Ltd. Village Nalash, Tehsil Rajpura, Distt Patiala |
| 3. Name of Sample collecting Officer | Er. Navtesh Singla (AEE) |
| 4. Designation of Authorizing Test | Dr. Rupinder Kaur (SA) |
| 5. Type of Sample | EE, R.O. Patiala |
| 6. Date & Time of Sample Collection | Stack Emission |
| 7. Date & Time of Sample receipt in Lab. | 22.12.2020 |
| 8. Point of Sample collection | 23.12.2020 |
- Details as Given Below

Results

Point of Sample Collection	Parameter	Results	Prescribed Standards
From Port hole on stack after APCD of Unit I	Particulate Matter	45 mg/Nm ³	50 mg/Nm ³
From Port hole on stack after APCD of Unit II	Particulate Matter	41 mg/Nm ³	50 mg/Nm ³

Endst. No: 55-56

O/c

Rupinder
20/12/20
for Assistant Scientific Officer

Dt. 01/01/2021

A copy of the above is forwarded to the following for information and necessary action:-

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

O/c

Rupinder
20/12/20
for Assistant Scientific Officer

Test Report

Document QF : 2501
Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130472 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220926 NABL ULR No. :TC592621000002919F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

Test Report as per	: EPA Act 1986/PCLS/2010
General Information	
Name of the emission source monitored	: Stack Emission of Boiler
(a) Rated Capacity	: 2322 Ton
(b) Capacity on sampling day	: -do-
(c) Type of fuel used & its consumption	: Coal
(d) Normal operating schedule	: 24 hrs
2. Stack Identification	: Stack attached to Boiler (Unit-1)
3.Type of Stack/Duct	: Metal
4.Stack Height from Ground Level(m)	: 275
Diameter of the Stack(cm)	: 750
(6) Sampling Duration(minutes)	: 30
Purpose of Monitoring	: For Self Monitoring
(8) Air Pollution control measure	: ESPs
(a) Status	: Working
(b) Recovery of Material	: Fly Ash
(9) Fugitive Emission,if any	: Nil
Observations	
Flue Gas Temperature, °C,Avg.	: 128
Flue Gas Velocity(m/s),Avg.	: 23.68
Volumetric Flow Rate(Nm ³ /hr.)	: 2694298.83
Ambient Air Temperature, °C	: 27

TEST RESULTS				
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	General Parameters			
a.	Particulate Matter, mg/Nm ³ (Corrected to 6% O ₂ on dry basis)	IS:11255(P-1)	Max. 50	43.66

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

Disclaimer :

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130472 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220926 NABL ULR No. :TC592621000002919F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--


b.	Mercury(As Hg),mg/Nm ³	USEPA Method	Max. 0.03	BLQ (LOQ:0.01)
c.	Carbon Monoxide(CO),% v/v	IS:13270	Max. 1.0	0.2
d.	Carbon Dioxide (CO ₂), %	IS:13270	Not Specified	11.2
e.	Sulphur Dioxide (SO ₂), ppm (Corrected at 6% Dry O ₂)	IS:11255(P-2)	Not Specified	358.12
f.	Oxides of Nitrogen (NO _x), ppm (Corrected to 6% O ₂ on dry basis)	IS:11255(P-7)	Not Specified	78.67

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per EPA Act 1986/PCLS/2010, Sample collected by lab rep. on dated 12.03.2021, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
Prem Kumar
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130473 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220927-A NABL ULR No. :TC592621000002923F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

Test Report as per	: EPA Act 1986/PCLS/2010
General Information	
Name of the emission source monitored	: Stack Emission of Boiler
(a) Rated Capacity	: 2322 Ton
(b) Capacity on sampling day	: -do-
(c) Type of fuel used & its consumption	: Coal
(d) Normal operating schedule	: 24 hrs
2. Stack Identification	: Stack attached to Boiler (Unit-2)
3.Type of Stack/Duct	: Metal
4.Stack Height from Ground Level(m)	: 275
Diameter of the Stack(cm)	: 750
(6) Sampling Duration(minutes)	: 31
Purpose of Monitoring	: For Self Monitoring
(8) Air Pollution control measure	: ESPs
(a) Status	: Working
(b) Recovery of Material	: Fly Ash
(9) Fugitive Emission,if any	: Nil
Observations	
Flue Gas Temperature, °C,Avg.	: 124
Flue Gas Velocity(m/s),Avg.	: 22.48
Volumetric Flow Rate(Nm ³ /hr.)	: 2583534.33
Ambient Air Temperature, °C	: 27

TEST RESULTS

S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	General Parameters			
a.	Particulate Matter, mg/Nm ³ (Corrected to 6% O ₂ on dry basis)	IS:11255(P-1)	Max. 50	46.32

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130473 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220927 -A NABL ULR No. :TC592621000002923F Customer Ref. No.: PO Letter Dated :01.12.2020
---	---


b.	Mercury(As Hg),mg/Nm ³	USEPA Method	Max. 0.03	BLQ (LOQ:0.01)
c.	Carbon Monoxide(CO),% v/v	IS:13270	Max. 1.0	0.2
d.	Carbon Dioxide (CO ₂), %	IS:13270	Not Specified	10.6
e.	Sulphur Dioxide (SO ₂), ppm (Corrected at 6% Dry O ₂)	IS:11255(P-2)	Not Specified	342.94
f.	Oxides of Nitrogen (NO _x), ppm (Corrected to 6% O ₂ on dry basis)	IS:11255(P-7)	Not Specified	72.33

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Sample collected by lab rep. on dated 12.03.2021, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*****End Of Report*****


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

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

- | | |
|--|--|
| 1. Laboratory Sample No. | 1441-1442/ H.O.Lab./Air/Monitoring/2021 |
| 2. Name of Industry | M/s Nabha Power Ltd. Village Nalash. Tehsil Rajpura. Distt Patiala |
| 3. Name of Sample collecting Officer | Er. Surinder Singh (AEE)
Dr. Sonam Dogra (SA) |
| 4. Designation of Authorizing Test | EE, R.O.Patiala |
| 5. Type of Sample | Stack Emission |
| 6. Date & Time of Sample Collection | 31.03.2021 |
| 7. Date & Time of Sample receipt in Lab. | 01.04.2021 |
| 8. Point of Sample collection | Details as Given Below |

ਸੰ.ਵ.ਇ:-1/2/3/S.A.

ਨਵੀਂ ਡਾਕ
ਦਿ. 9/4/21

ਡਾਇਰੀ ਨੰ. 1057 ਮਿਤੀ 9/4/21

Point of Sample Collection	Parameter	Results	Prescribed Standards
From Port hole on stack after APCD of Unit I	Particulate Matter	43 mg/Nm ³	50 mg/Nm ³
From Port hole on stack after APCD of Unit II	Particulate Matter	40 mg/Nm ³	50 mg/Nm ³

Assistant Scientific Officer

6/4/21

Dt. 7-4-21

Endst. No: 8460-62

A copy of the above is forwarded to the following for information and necessary action:-

1. Chief Environmental Engineer (Air). Punjab Pollution Control Board, Jalandhar
2. The Senior Environmental Engineer. Punjab Pollution Control Board. Zonal Office-I. Patiala.
3. The Environmental Engineer. Punjab Pollution Control Board, Regional Office. Patiala

Assistant Scientific Officer

6/4/21

Annexure-3



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

Annexure- 4

Measures taken to control fugitive emissions

Annexure-4



Dust Extraction System at Crusher House



Dust Extraction System at Bunker

Annexure-4

1. Measures taken to control fugitive emissions during coal handling



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



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



Automated and Mechanized Coal handling System to minimize manual operations



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

Annexure-4



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

Annexure-5

Fly Ash Utilization Report

Nabha Power Ltd.				
Fly Ash Utilization FY 2020-21				
Period	Fly Ash Generation Data (MT)	Fly Ash Utilisation Data (MT)	Total Fly Ash Utilised %	Remarks
1st October 2020 to 31st March 2021	740090	782135	105.7%	
Note - 1. 100% Utilization of Fly ash Generated has been achieved for the year 2020-21				

Annexure-6
Heavy Metal Analysis in Fly Ash
& Bottom Ash Report

Test Report


Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103160591 Sample Reg. Date :16-03-2021 Report Date :20-03-2021 Report No. :ICE-2103200813-A Customer Ref. No.: PO Letter Dated :01.12.2020
---	---

Test Report as per IS:Party Specification	With Amendment No.(s):
--	-------------------------------

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Fly Ash
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values,if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	250gm
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in poly pack
l)	Date of Receipt	16-03-2021
m)	Date of Start	16-03-2021
n)	Date of Completion	20-03-2021
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. on 15.03.2021
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS

a.	Reference to sampling procedure, whenever applicable	: N/A
----	--	-------


Saurabh Sharma
20-03-2021
Reviewer


20-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

Phone : (O) 0172-2561543, 2565825

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Test Report

Document QF : 2501

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Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103160591 Sample Reg. Date :16-03-2021 Report Date :20-03-2021 Report No. :ICE-2103200813-A Customer Ref. No.: PO Letter Dated :01.12.2020
---	---

b. Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any : N/A
c. Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any : N/A

PART C : TEST RESULTS


Description			
Description	Fly Ash		
S.No.	Test Parameter	Method	Result
Test Details :			
1.	Heavy Metals		
a.	Lead as Pb, (mg/kg)	In House	2.36
b.	Mercury as Hg (mg/kg)	In House	BLQ(LOQ:1.0)
c.	Arsenic as As, (mg/kg)	In House	0.15
d.	Chromium as Cr (mg/kg)	In House	2.69

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification,

PART D : REMARKS :N/A

*****End Of Report*****


Saurabh Sharma
20-03-2021
Reviewer


20-03-2021
PremKumar
[Authorized Signatory]

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Test Report


Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103160590 Sample Reg. Date :16-03-2021 Report Date :20-03-2021 Report No. :ICE-2103200812-A Customer Ref. No.: PO Letter Dated :01.12.2020
---	---


Test Report as per IS:Party Specification	With Amendment No.(s):
--	-------------------------------

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Bottom Ash
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values,if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	250gm
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in poly pack
l)	Date of Receipt	16-03-2021
m)	Date of Start	16-03-2021
n)	Date of Completion	20-03-2021
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. on 15.03.2021, Sample from Pond
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS

a.	Reference to sampling procedure, whenever applicable	: N/A
----	--	-------


Saurabh Sharma
20-03-2021
Reviewer


20-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

Phone : (O) 0172-2561543, 2565825

Visit us : www.itclabs.com Email : customersupport@itclabs.com

Disclaimer :

- Sample (s) not drawn by us unless otherwise stated.
- Total Liability of this Laboratory is limited to the Invoiced amount.
- Test certificates in full or parts shall not be used for promotional or publicity purpose.
- If sample is not consumed during analysis, it will be stored as per required storage condition.

Test Report

Document QF : 2501

Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103160590 Sample Reg. Date :16-03-2021 Report Date :20-03-2021 Report No. :ICE-2103200812-A Customer Ref. No.: PO Letter Dated :01.12.2020
---	---

b. Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any : N/A
c. Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any : N/A

PART C : TEST RESULTS


Description			
Description	Bottom Ash		
S.No.	Test Parameter	Method	Result
Test Details :			
1.	Heavy Metals		
a.	Lead as Pb, (mg/kg)	In House	BLQ(LOQ:1.0)
b.	Mercury as Hg (mg/kg)	In House	BLQ(LOQ:1.0)
c.	Arsenic as As, (mg/kg)	In House	BLQ(LOQ:1.0)
d.	Chromium as Cr (mg/kg)	In House	BLQ(LOQ:1.0)

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification

PART D : REMARKS :N/A

*****End Of Report*****


Saurabh Sharma
20-03-2021
Reviewer


20-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

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Annexure-7

Treated Sewage Monitoring Results

Test Report


Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012220683 Sample Reg. Date :22-12-2020 Report Date :28-12-2020 Report No. :ICE-2012280893 NABL ULR No. :TC592620000010439F Customer Ref. No.:- Letter Dated :-
---	---

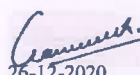
Test Report as per IS:EPA Act 1986/PCLS/2010	With Amendment No.(s):
---	-------------------------------

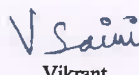
PART A : PARTICULARS OF SAMPLE SUBMITTED

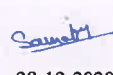
a)	Nature of Sample #	STP Outlet Water
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values,if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	2 Ltr 100ml
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in can & in plastic container
l)	Date of Receipt	22-12-2020
m)	Date of Start	22-12-2020
n)	Date of Completion	28-12-2020
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample Collected by lab rep. on 21.12.2020
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS

a.	Reference to sampling procedure, whenever applicable	: N/A
----	--	-------


26-12-2020
Gaurav Khandelwal
[Authorized Signatory]


Vikrant
28-12-2020
Reviewer


28-12-2020
Saurabh Sharma
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

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Phone : (O) 0172-2561543, 2565825

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Disclaimer :

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- Test certificates in full or parts shall not be used for promotional or publicity purpose.
- If sample is not consumed during analysis, it will be stored as per required storage condition.

Test Report

Document QF : 2501

Page 2 of 2

Issued To	Sample Reg. No. :E01-2012220683
Nabha Power Limited	Sample Reg. Date :22-12-2020
Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala	Report Date :28-12-2020
Rajpura	Report No. :ICE-2012280893
	NABL ULR No. :TC592620000010439F
	Customer Ref. No.:-
	Letter Dated :-

b. Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any	: N/A
c. Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any	: N/A


PART C : TEST RESULTS				
Description				
Description	Pale Yellow Liquid			
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	General Parameters			
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-9	8.18
b.	Total Suspended Solids,(mg/L)	IS:3025(Part 17)	Max. 100	11
c.	Chemical Oxygen Demand(mg/l)	APHA-23rd Edition	Not Specified	40
d.	Bio-chemical Oxygen Demand, mg/L (3 days at 27°C)	IS:3025(P-44)	Max. 30	8
e.	Total Nitrogen(as N), mg/L	APHA-23rd Edition	Not Specified	2.4
f.	Total Phosphorous as P (mg/l)	IS 3025 (Part 31)	Not Specified	1.1
2.	Microbiological Tests			
a.	Faecal Coliform, MPN/100ml	APHA-23 rd Edn 17-9221 F	Max. 1000	21


represents Customer Defined Fields


NOTE : NA- Not Applicable. Requirement as per EPA 1986/PCLS/2010,G.S.R. 1265(E), Dated 13.10.2017. Sampling Procedure: SOP/ITC/EW/030. Purpose: For Self Monitoring

PART D : REMARKS :N/A

*****End Of Report*****


26-12-2020
Gaurav Khandelwal
[Authorized Signatory]


Vikrant
28-12-2020
Reviewer


28-12-2020
Saurabh Sharma
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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E-2020
ਦਿ: 1/2/2021
ਨਵੀਂ ਮਿਤੀ
ਦਿ: 12/11

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

- | | | | |
|--|--|---------------|--------------|
| 1. Laboratory Sample No. | E-3300/ H.O. Lab. Monitoring/2020 | ਡਾਇਰੀ ਨੰ. 139 | ਮਿਤੀ 12/1/21 |
| 2. ULR No. | ULR-TC704518000000002799P | | |
| 3. Name of Industry | M/s Nabha Power Ltd, Village Nalash,
Rajpura, Distt. Patiala. | | |
| 4. Name of Sample collecting Officer | Er. Navtresh Singla, AEE | | |
| 5. Designation of the officer authorizing Test | Environmental Engineer, Regional Office, Patiala | | |
| 6. Type of Sample | Grab | | |
| 7. Date & Time of Sample collection | 22.12.2020 | | |
| 8. Date & Time of Sample receipt in Lab. | 23.12.2020 | | |
| 9. Period of Analysis | 23.12.2020 to 4.1.2021 | | |
| 10. Test Methods | As per relevant parts of IS:3025/Methods of APHA | | |

Results

Sr. No.	Parameters	Outlet of STP	Prescribed Standard as per EPA
1.	pH	7.6	5.5-9.0
2.	Total Suspended Solids mg/l	8	200
3.	Total Dissolved Solids mg/l	817	-
4.	Chemical Oxygen Demand mg/l	84	-
5.	Bio-chemical Oxygen Demand mg/l	24	100
6.	*Oil & Grease	BDL	10

* Not covered under scope of NABL

Note: BDL means below detection limit

Remarks: 1. The prescribed standards are EPA Standards. However, if any stringent standards have been Decided by the Board, the same shall prevail.

---End of Report---

Analyzed by

Endst. No: 371-72

A copy of the above is forwarded to the:-

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

Asst. Scientific Officer

DI. 5/1/2021

Jr. Scientific Officer

Test Report


Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130471 Sample Reg. Date :13-03-2021 Report Date :18-03-2021 Report No. :ICE-2103180586 NABL ULR No. :TC592621000002710F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--


Test Report as per IS:EPA Act 1986/PCLS/2010	With Amendment No.(s):
---	-------------------------------


PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	STP Outlet Water
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values,if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	2 Ltr
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in can
l)	Date of Receipt	13-03-2021
m)	Date of Start	13-03-2021
n)	Date of Completion	18-03-2021
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. on 12.03.2021
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS

a.	Reference to sampling procedure, whenever applicable	: N/A
----	--	-------


18-03-2021
Gaurav Khandelwal
[Authorized Signatory]


Saurabh Sharma
18-03-2021
Reviewer


18-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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Test Report

Document QF : 2501

Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130471 Sample Reg. Date :13-03-2021 Report Date :18-03-2021 Report No. :ICE-2103180586 NABL ULR No. :TC592621000002710F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

b. Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any : N/A
c. Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any : N/A

PART C : TEST RESULTS

Description

Description Pale Yellow Liquid

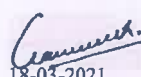
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	General Parameters			
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-9	7.30
b.	Total Suspended Solids,(mg/L)	IS:3025(Part 17)	Max. 100	8
c.	Chemical Oxygen Demand(mg/l)	APHA-23rd Edition	Not Specified	35
d.	Bio-chemical Oxygen Demand, mg/L (3 days at 27°C)	IS:3025(P-44)	Max. 30	10
e.	Total Nitrogen(as N), mg/L	APHA-23rd Edition	Not Specified	15.4
f.	Total Phosphorous as P (mg/l)	IS 3025 (Part 31)	Not Specified	0.7
2.	Microbiological Tests			
a.	Faecal Coliform, MPN/100ml	APHA-23 rd Edn 17-9221 F	Max. 1000	40

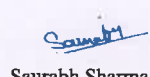
represents Customer Defined Fields

NOTE : NA- Not Applicable, Requirements as per EPA Act 1986/PCLS/2010, Sampling Procedure - SOP/ITC/EW/030,
Purpose - For Self monitoring

PART D : REMARKS :N/A

*****End Of Report*****


18-03-2021
Gaurav Khandelwal
[Authorized Signatory]


Saurabh Sharma
18-03-2021
Reviewer


18-03-2021
Prem Kumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

Phone : (O) 0172-2561543, 2565825

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- If sample is not consumed during analysis, it will be stored as per required storage condition.

PUNJAB POLLUTION CONTROL BOARD VATAVARAN BHAVAN, ਮ:ਵ:ਵਿ: 1/2/3/S.A
NABHA ROAD, PATIALA
WATER ANALYSIS REPORT

1. Laboratory Sample No. E-3816/ H.O. Lab. Monitoring/2021
2. ULR No. ULR-TC 70-1518000000003112P
3. Name of Industry M/s Nabha Power Ltd. Village Nalash Rajpura
4. Name of Sample collecting Officer Er. Surinder Jeet Singh, AEE
5. Designation of the officer authorizing Test EE, RO Patiala
6. Type of Sample Grab
7. Date & Time of Sample collection 31.3.21
8. Date & Time of Sample receipt in Lab. 1.4.21
9. Period of Analysis 1.4.21 to 12.4.21
10. Test Methods As per relevant parts of IS:3025/Method of APHA

Results

Sr. No.	Parameters	Outlet of STP	Prescribed Standard as per EPA
1.	pH	7.2	5.5-9.0
2.	Total Suspended Solids mg/l	12	200
3.	Total Dissolved Solids mg/l	847	-
4.	Chemical Oxygen Demand mg/l	69	-
5.	Bio-Chemical Oxygen Demand mg/l	14	100
6.	Oil & Grease mg/l	BDL	10

Remarks: 1. The prescribed standards are EPA Standards. However, if any stringent standards have been decided by the Board, the same shall prevail.

2. BDL means below Method Detection Limit

---End of Report---

[Signature]
 Checked By

[Signature]
 Incharge Water Lab

Encls: No: 9108-10

Dt: 19-4-21

A copy of the above is forwarded to the:-

1. The Chief Environmental Engineer (Water), Punjab Pollution Control Board, Ludhiana
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal Office-I Patiala
3. The Environment Engineer, Punjab Pollution Control Board, Regional Office, Patiala

[Signature]
 Jr. Scientific Officer

Annexure-8

Ground Water Quality Monitoring Results

Test Report


Document QF : 2501

Page 1 of 3


Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120420 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220915 NABL ULR No. :TC592621000002908F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per IS:IS 10500 - 2012	With Amendment No.(s):
--	-------------------------------

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values,if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	2x1 Ltr
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in cans
l)	Date of Receipt	12-03-2021
m)	Date of Start	12-03-2021
n)	Date of Completion	22-03-2021
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. Mr. Kimiti on 10.03.2021, Sample form Piezometer No.1
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

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Test Report

Document QF : 2501

Page 2 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120420 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220915 NABL ULR No. :TC592621000002908F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

a. Reference to sampling procedure, whenever applicable	: N/A
b. Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any	: N/A
c. Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any	: N/A

PART C : TEST RESULTS

Description

Description	Clear colorless liquid
-------------	------------------------

S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Organoleptic & Physical Parameter			
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5-No relaxation	7.79
2.	Parameters Concerning Undesirable Substances in excess amount			
a.	Total Hardness(as CaCO ₃), (mg/L)	IS 3025 (Part 21)	200 Max.-600 Max.	94
3.	General Parameters			
a.	Total Suspended Solids,(mg/L)	IS:3025(Part 17)	Not Specified	BLQ(LOQ:1.0)
b.	Total Dissolved Solids (mg/L)	IS:3025(P-16)	500 Max.-2000 Max.	449
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)	Not Specified	BLQ(LOQ:1.0)
d.	Bio-chemical Oxygen Demand, mg/L (3 days at 27°C)	IS:3025(P-44)	Not Specified	BLQ(LOQ:1.0)
4.	Parameters Concerning Toxic Substances			
a.	Lead(as Pb)(mg/l)	IS:3025(P-65)	0.01 Max.-No Relaxation	BLQ(LOQ:0.002)
b.	Mercury(as Hg)(mg/l)	IS:3025(P-65)	0.001 Max.-No Relaxation	BLQ(LOQ:0.001)
c.	Total Arsenic(as As)(mg/l)	IS:3025(P-65)	0.01 Max.-0.05 Max.	BLQ(LOQ:0.002)
d.	Total Chromium(as Cr)(mg/l)	IS:3025(P-65)	0.05 Max.-No Relaxation	BLQ(LOQ:0.002)

represents Customer Defined Fields

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

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Test Report

Document QF : 2501


Page 3 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120420 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220915 NABL ULR No. :TC592621000002908F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Sampling Procedure - SOP/ITC/EW/030,

PART D : REMARKS :The above referred sample of Ground Water (Piezometer) conforms to IS 10500 - 2012 respect to the above tests.

*******End Of Report*******


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

Phone : (O) 0172-2561543, 2565825

Visit us : www.itclabs.com Email : customersupport@itclabs.com

Disclaimer :

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- Total Liability of this Laboratory is limited to the Invoiced amount.
- Test certificates in full or parts shall not be used for promotional or publicity purpose.
- If sample is not consumed during analysis, it will be stored as per required storage condition.

Test Report


Document QF : 2501

Page 1 of 3


Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120421 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220916 NABL ULR No. :TC592621000002910F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

Test Report as per IS:IS 10500 - 2012	With Amendment No.(s): 02
--	----------------------------------

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values,if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	2 Ltr
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in can
l)	Date of Receipt	12-03-2021
m)	Date of Start	12-03-2021
n)	Date of Completion	22-03-2021
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. Mr. Kimiti on 10.03.2021, Sample from Piezometer No.2
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 2 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120421 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220916 NABL ULR No. :TC592621000002910F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

a. Reference to sampling procedure, whenever applicable	: N/A
b. Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any	: N/A
c. Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any	: N/A

PART C : TEST RESULTS

Description

Description

Clear colorless liquid

S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Organoleptic & Physical Parameter			
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5-No relaxation	7.69
2.	Parameters Concerning Undesirable Substances in excess amount			
a.	Total Hardness(as CaCO ₃), (mg/L)	IS 3025 (Part 21)	200 Max.-600 Max.	95.6
3.	General Parameters			
a.	Total Suspended Solids,(mg/L)	IS:3025(Part 17)	Not Specified	BLQ(LOQ:1.0)
b.	Total Dissolved Solids (mg/L)	IS:3025(P-16)	500 Max.-2000 Max.	456
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)	Not Specified	BLQ(LOQ:1.0)
d.	Bio-chemical Oxygen Demand, mg/L (3 days at 27°C)	IS:3025(P-44)	Not Specified	BLQ(LOQ:1.0)
4.	Parameters Concerning Toxic Substances			
a.	Lead(as Pb)(mg/l)	IS:3025(P-65)	0.01 Max.-No Relaxation	BLQ(LOQ:0.002)
b.	Mercury(as Hg)(mg/l)	IS:3025(P-65)	0.001 Max.-No Relaxation	BLQ(LOQ:0.001)
c.	Total Arsenic(as As)(mg/l)	IS:3025(P-65)	0.01 Max.-0.05 Max.	BLQ(LOQ:0.002)
d.	Total Chromium(as Cr)(mg/l)	IS:3025(P-65)	0.05 Max.-No Relaxation	BLQ(LOQ:0.002)

represents Customer Defined Fields

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 3 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120421 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220916 NABL ULR No. :TC592621000002910F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Sampling Procedure - SOP/ITC/EW/030,

PART D : REMARKS :The above referred sample of Ground Water (Piezometer) conforms to IS 10500 - 2012 with upto date amdts with respect to the above tests.

*****End Of Report*****



Saurabh Sharma
22-03-2021
Reviewer



22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

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Test Report


Document QF : 2501

Page 1 of 3


Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120422 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220917 NABL ULR No. :TC592621000002917F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--


Test Report as per IS:IS 10500 - 2012	With Amendment No.(s):02
--	---------------------------------

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values,if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	2 Ltr
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in can
l)	Date of Receipt	12-03-2021
m)	Date of Start	12-03-2021
n)	Date of Completion	22-03-2021
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. Mr. Kimiti on 10.03.2021, Sample from Piezometer No.3
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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Test Report

Document QF : 2501

Page 2 of 3

Issued To	Sample Reg. No. :E01-2103120422
Nabha Power Limited	Sample Reg. Date :12-03-2021
Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala	Report Date :22-03-2021
Rajpura	Report No. :ICE-2103220917
	NABL ULR No. :TC592621000002917F
	Customer Ref. No.: PO
	Letter Dated :01.12.2020

a. Reference to sampling procedure, whenever applicable	: N/A
b. Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any	: N/A
c. Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any	: N/A

PART C : TEST RESULTS

Description

Description	Clear colorless liquid
-------------	------------------------

S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Organoleptic &Physical Parameter			
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5-No relaxation	7.64
2.	Parameters Concerning Undesirable Substances in excess amount			
a.	Total Hardness(as CaCO ₃), (mg/L)	IS 3025 (Part 21)	200 Max.-600 Max.	96
3.	General Parameters			
a.	Total Suspended Solids,(mg/L)	IS:3025(Part 17)	Not Specified	BLQ(LOQ:1.0)
b.	Total Dissolved Solids (mg/L)	IS:3025(P-16)	500 Max.-2000 Max.	460
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)	Not Specified	BLQ(LOQ:1.0)
d.	Bio-chemical Oxygen Demand, mg/L (3 days at 27°C)	IS:3025(P-44)	Not Specified	BLQ(LOQ:1.0)
4.	Parameters Concerning Toxic Substances			
a.	Lead(as Pb)(mg/l)	IS:3025(P-65)	0.01 Max.-No Relaxation	BLQ(LOQ:0.002)
b.	Mercury(as Hg)(mg/l)	IS:3025(P-65)	0.001 Max.-No Relaxation	BLQ(LOQ:0.001)
c.	Total Arsenic(as As)(mg/l)	IS:3025(P-65)	0.01 Max.-0.05 Max.	BLQ(LOQ:0.002)
d.	Total Chromium(as Cr)(mg/l)	IS:3025(P-65)	0.05 Max.-No Relaxation	BLQ(LOQ:0.002)

represents Customer Defined Fields

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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Test Report

Document QF : 2501


Page 3 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120422 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220917 NABL ULR No. :TC592621000002917F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Sampling Procedure - SOP/ITC/EW/030,

PART D : REMARKS :The above referred sample of Ground Water (Piezometer) conforms to IS 10500 - 2012 with upto date amdots with respect to the above tests.

*****End Of Report*****


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

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Test Report


Document QF : 2501

Page 1 of 3


Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120423 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220918 NABL ULR No. :TC592621000002915F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

Test Report as per IS:IS 10500 - 2012	With Amendment No.(s): 02
--	----------------------------------

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values,if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	2x1 Ltr
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in cans
l)	Date of Receipt	12-03-2021
m)	Date of Start	12-03-2021
n)	Date of Completion	22-03-2021
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. Mr. Kimiti on 10.03.2021, Sample from Piezometer No.4
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

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Test Report

Document QF : 2501

Page 2 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120423 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220918 NABL ULR No. :TC592621000002915F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

a. Reference to sampling procedure, whenever applicable	: N/A
b. Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any	: N/A
c. Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any	: N/A

PART C : TEST RESULTS

Description

Description Clear colorless liquid

S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Organoleptic & Physical Parameter			
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5-No relaxation	7.19
2.	Parameters Concerning Undesirable Substances in excess amount			
a.	Total Hardness(as CaCO ₃), (mg/L)	IS 3025 (Part 21)	200 Max.-600 Max.	106
3.	General Parameters			
a.	Total Suspended Solids,(mg/L)	IS:3025(Part 17)	Not Specified	BLQ(LOQ:1.0)
b.	Total Dissolved Solids (mg/L)	IS:3025(P-16)	500 Max.-2000 Max.	474
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)	Not Specified	BLQ(LOQ:1.0)
d.	Bio-chemical Oxygen Demand, mg/L (3 days at 27°C)	IS:3025(P-44)	Not Specified	BLQ(LOQ:1.0)
4.	Parameters Concerning Toxic Substances			
a.	Lead(as Pb)(mg/l)	IS:3025(P-65)	0.01 Max.-No Relaxation	BLQ(LOQ:0.002)
b.	Mercury(as Hg)(mg/l)	IS:3025(P-65)	0.001 Max.-No Relaxation	BLQ(LOQ:0.001)
c.	Total Arsenic(as As)(mg/l)	IS:3025(P-65)	0.01 Max.-0.05 Max.	BLQ(LOQ:0.002)
d.	Total Chromium(as Cr)(mg/l)	IS:3025(P-65)	0.05 Max.-No Relaxation	BLQ(LOQ:0.002)

represents Customer Defined Fields

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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Test Report

Document QF : 2501


Page 3 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103120423 Sample Reg. Date :12-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220918 NABL ULR No. :TC592621000002915F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Sampling Procedure - SOP/ITC/EW/030,

PART D : REMARKS :N/A

*****End Of Report*****


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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

Date: 12/4/21
GW Report No: 9087-89
दि: 12/4/21
मि: 9087-89

Laboratory Sample No. GW 744-747/ H.O. Lab. G.W. Monitoring 2021
 ULR Number ULR-TC 704518000000003113P
 Name of Industry Ground Water Samples taken from _____
 Name of Sample collecting Officer M/s Nabha Power Limited, Vill. Nalas, Rajpura
 Designation of authorizing Test Er. Surinderjeet Singh AEI
 Date & Time of Sample collection EE, RO, Patiala.
 Date & Time of Sample receipt in Lab. 31.3.21
 Period of Analysis 1.4.21
 Test Methods 1.4.21 to 12.4.21
 Results As per relevant parts of IS:3025 & methods of APHA

Sr. no.	Parameters	Near Coal Handling Plant	Near Storm Water Sump	Along ash dyke	Between Ash dyke and reservoir
	pH	7.0	7.8	7.8	7.9
	Total Suspended Solids mg/l	BDL	BDL	BDL	BDL
	Total Dissolved Solids mg/l	332	356	343	321
	*Chemical Oxygen Demand mg/l	BDL	BDL	BDL	BDL
	*Bio-Chemical Oxygen Demand mg/l	BDL	BDL	BDL	BDL
	Total Hardness mg/l	125	138	130	110
	Calcium Hardness mg/l	83	92	90	78
	Magnesium Hardness mg/l	42	46	40	32
	Magnesium mg/l	10	11	9.6	7.7
	Total Alkalinity mg/l	90	97	93	84
	Chloride mg/l	10	15	12	20
	Sulphate mg/l	18	25	21	29
	*Mercury mg/l	BDL	BDL	BDL	BDL
	*Lead mg/l	BDL	BDL	BDL	BDL
	Total Chromium mg/l	BDL	BDL	BDL	BDL

Note: BDL means Below Method Detection Limit.

-End of Report-

Analyzed By
12/4/21

Incharge Water Lab
12/4/21

Enlist No: 9087-89

Dt. 19-4-21

copy of the above is forwarded to the:-

1. The Chief Environmental Engineer (Water), Punjab Pollution Control Board, Ludhiana
2. The Senior Environmental Engineer, Punjab Pollution Control Board, Zonal Office-I Patiala
3. The Environment Engineer, Punjab Pollution Control Board, Regional Office, Patiala

12/4/21
Jr. Scientific Officer

Annexure-9

Green Belt Photographs

Annexure-9

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



Pic-1 Green belt around coal stockpile area



Pic-2 Green belt around plant premises



Pic-3 Green belt along boundary



Pic-4 Green belt on both sides of road



Pic-5 Green belt area railway siding

Annexure-10

CSR Report

FY 21

Corporate Social Responsibility



A Community Service Initiative by

NPL
Nabha Power Limited

Sensitivity : This Document is Classified as "LNT Internal Use"

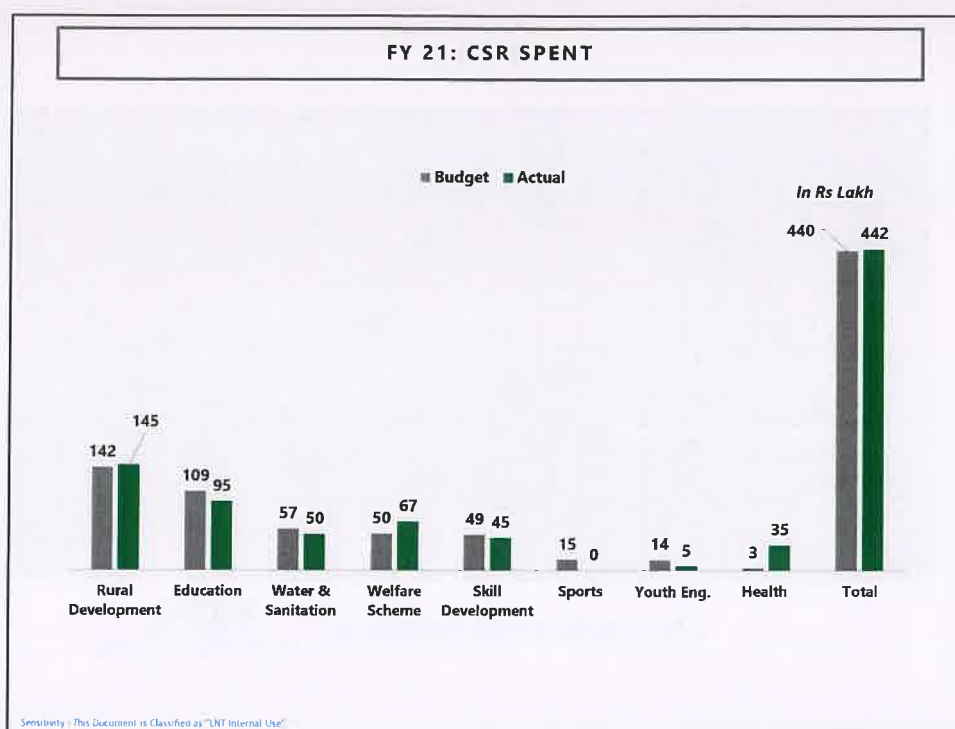
1

CORE AREAS CORPORATE SOCIAL RESPONSIBILITY: FY21

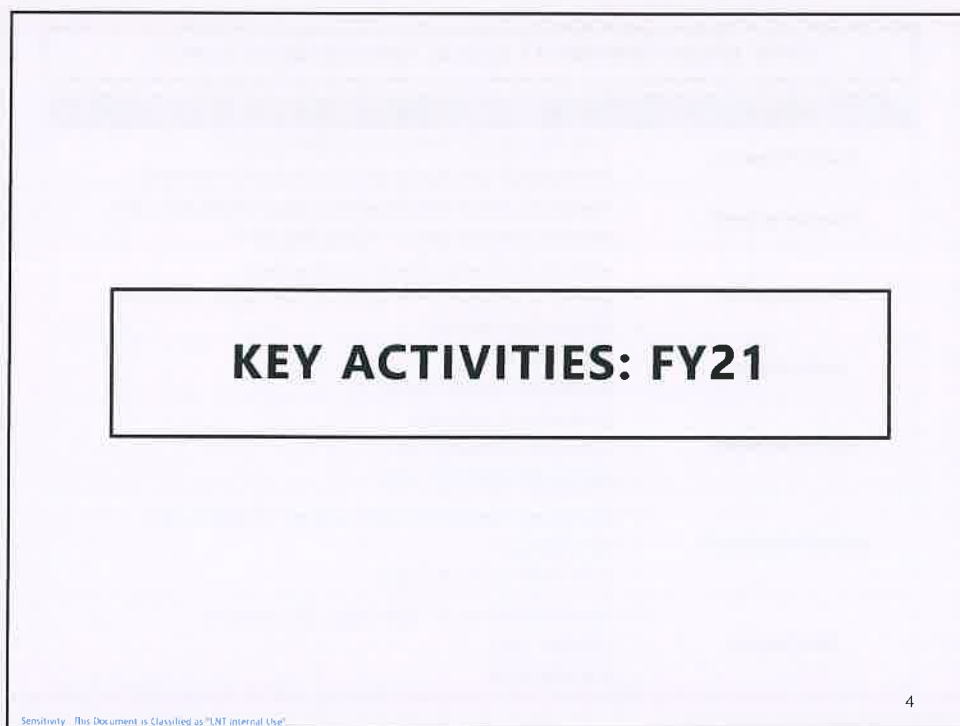
Theme	Areas of Intervention
Rural Infrastructure	<ul style="list-style-type: none"> Construction of Roads, EWS Housing, Community Sheds, Development of low lying areas, Parks & other Rural Infrastructure.
Education & Sports	<ul style="list-style-type: none"> Development of School Infra, Anganwaris, Support Classes, Sports Infra General Nursing & Midwifery Scholarship Programme
Skill Development	<ul style="list-style-type: none"> Jute Products, Stitching & Beautician training centres Enrolment in specialized courses at NSIC Rajpura / Orane International Self Help Group formation
Welfare Schemes	<ul style="list-style-type: none"> Shagan Scheme Girl Child Birth Incentive Scheme.
Water & Sanitation	<ul style="list-style-type: none"> Rejuvenation of water bodies Construction of Concrete Drains Cleaning of Ponds/Natural Drains
Health & Environment	<ul style="list-style-type: none"> Covid related : Distribution of masks, sanitisers, immunity boosters Path Lab facility Cancer Check-up, Tree Plantation
Miscellaneous	<ul style="list-style-type: none"> Distribution of Rations to ~3500 families during lockdown Exhibitions, Stalls Road safety Drive

Sensitivity : This Document is Classified as "LNT Internal Use"

2



3




4


ROAD CONSTRUCTION

Project Cost : 55 Lakh

Village	Length (m)	Impact Population
• Niamatpur	300	1106
• Kotla	240	1178
• Urna	70	1437
• Kehargarh	100	180
• Dadumajra	123	1683
• Akbarpur	120	712
• Mirzapur	190	1500
• Gurditpura	257	1400
	1400	9196



Before



After

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5

EWS HOUSING

Project Cost : 27 Lakh


Houses constructed : **07**

↓


Beneficiaries : **40 family Members**

↓

Facilities
 1 Room, 1 Kitchen, 1 Washroom,
 Boundary Wall & Entry Gate



Before



After

Sensitivity : This Document is Classified as "UNT Internal Use"

6


PARK DEVELOPMENT / OPEN GYM

Project Cost : 10.86 Lakh


Villages : Bhateri & Nalash Khurd

Beneficiaries : ~5600

Village	Works Undertaken
Nalash Khurd	Pathway
	Boundary Wall
	Entrance Gate
	Installation of Open Gym equipments (5)
Bhateri	Chipping work
	Installation of Open Gym equipments (5)



Before



After

Sensitivity : This Document is Classified as "UNF Internal Use"

7



COMMUNITY SHED

Project Cost : 14.67 Lakh

**Villages : Cholti Kheri,
Distt Fatehgarh Sahib**

**Beneficiaries : ~ 2500
Covering 3 villages**

**Facilities
Shed, 2 Rooms, 2 Washrooms**

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8



9

Water & Sanitation
"Cleaning of Ponds/Drains"

- Considering the monsoon season ,to avoid flooding in fields/villages, cleaning of ponds/natural drains is being done in various villages like Cho;ti Kheri,Harna, Badali, Gurditpura, Urna, Niamatpur, Ugani Sahib,Salempur



Cleaning of Pond at Vill. Gurditpura



Cleaning of drain at Vill. Harna

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10

SKILL DEVELOPMENT

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11

SINDHRAN SDC - EMERGED AS MASK PRODUCTION CENTRE

Women employed
12

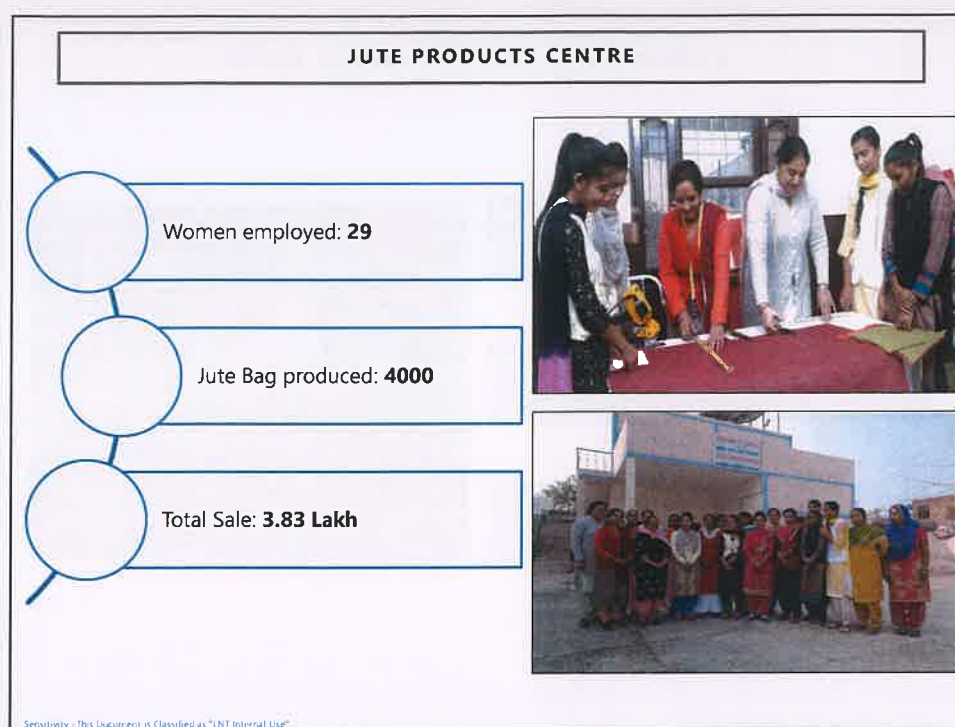
Masks produced
37500

Income
1.3 Lakh



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12



13



14

EMBROIDERY & PHULKARI CENTRE, KOTLA

Trainees Engaged: **25**

Centre: **01**

Income: **Rs. 70,000**



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15

NEW INITIATIVES

Jute
products
training
center

Village
Sadhror &
Basantpura

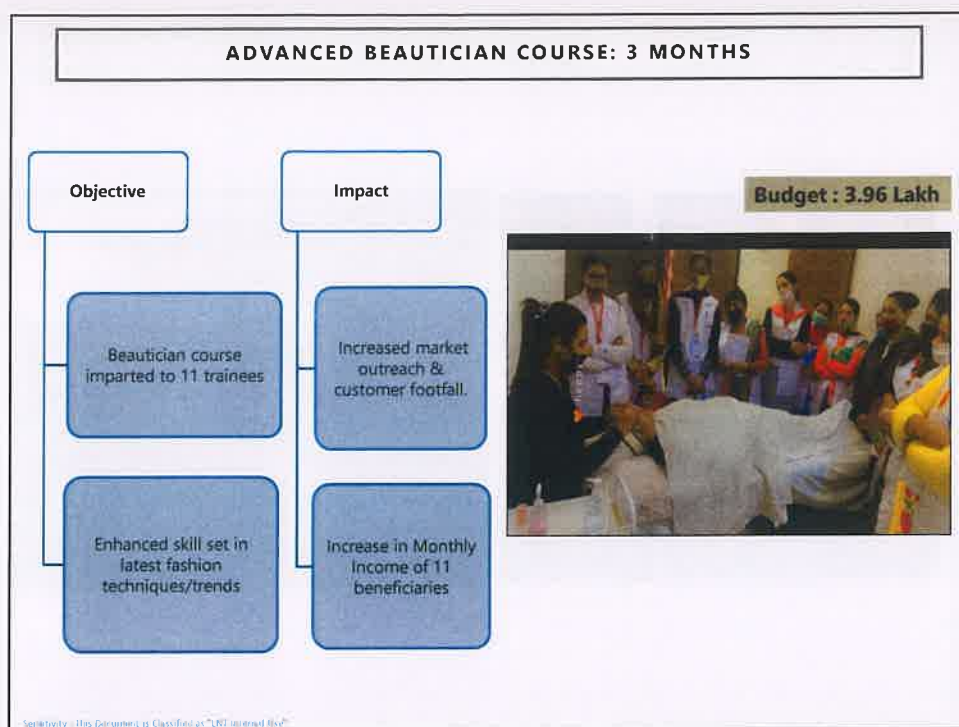
Beneficiaries
Engaged
50

Total Budget
2.9 Lakh



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16



17

Celebration of
"International Women's Day"


A "CSR Initiative" of
Nabha Power Limited


Venue:- Govt. Sr. Sec School, Vill Bhappal

Program

- Invite to various CSR Women Stakeholders Lady Sapanchs, Health Workers, Aganwari Workers, Training/Tutorials Teachers
- Women Resource Persons to address Women Rights, Entrepreneurship Initiatives
- Support under "Self-Employment Initiative" to Small Scale Women Entrepreneurs
- Street Play on Women Rights Gender Equality
- Handing over of Fixed deposits Shagan Cheques (Rs 21000 - each) under CSR Female Welfare Schemes.

* Address By: Honourable CE






18

WELFARE SCHEMES

Amount: 48.30 Lakh	Families Benefitted: 227	Villages covered : 39
---------------------------------	---------------------------------------	------------------------------------

Shagan & Female Child Scheme





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19

SAFETY & FACE MASK DISTRIBUTION DRIVE

Road Safety & Covid Awareness

- 66,000 face masks distributed to local administration and in nearby villages
- Safety drives conducted at Rajpura, Banur & Patiala in association with traffic police

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20

VOCATIONAL TRAINING: NSIC, RAJPURA

1 Year Diploma in Electrician Course

18 students have completed the course

Certification program organized by NPL
& NSIC, Rajpura.



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21

EDUCATION

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22

Education – Major Activities

1- Handover of Govt Middle School, Bhagrana under School Adoption Program by Hon'ble CE Sir

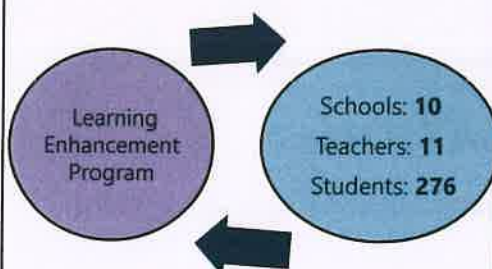
Total Cost – Rs 11.83 Lakh
No of Class Rooms Repaired – 08
Pathway Constructed – 150 Meter
Construction of New Boundary wall – 150 Meter
No of Drinking Water Facilities developed – 01
No of Washrooms Repaired – 04
No of Mid Day Meal Kitchen Repaired – 02



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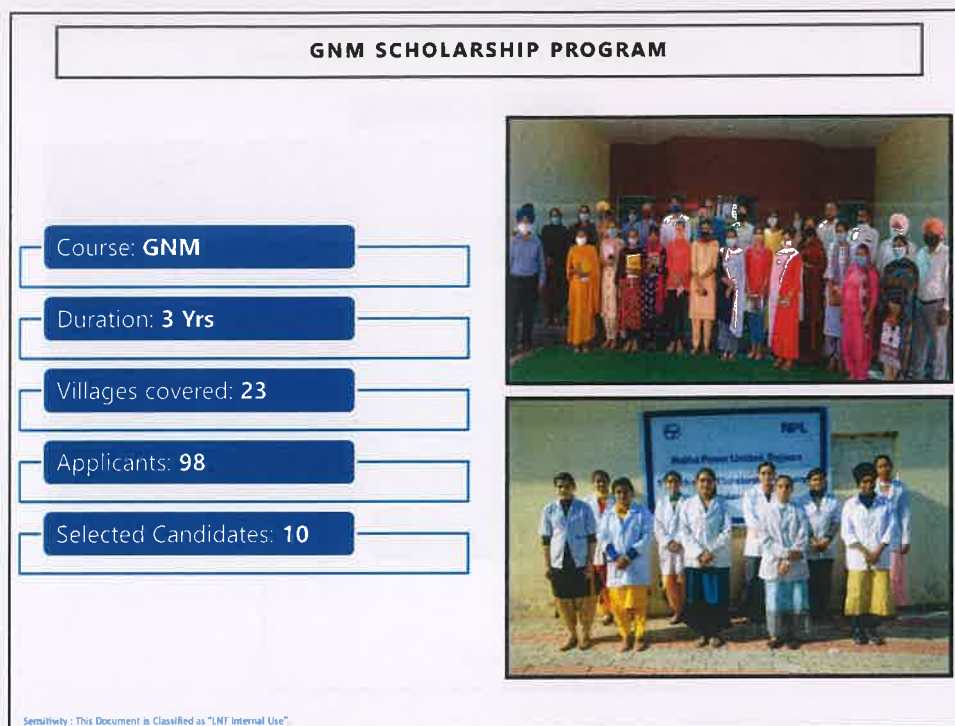
23

LEARNING ENHANCEMENT PROGRAM

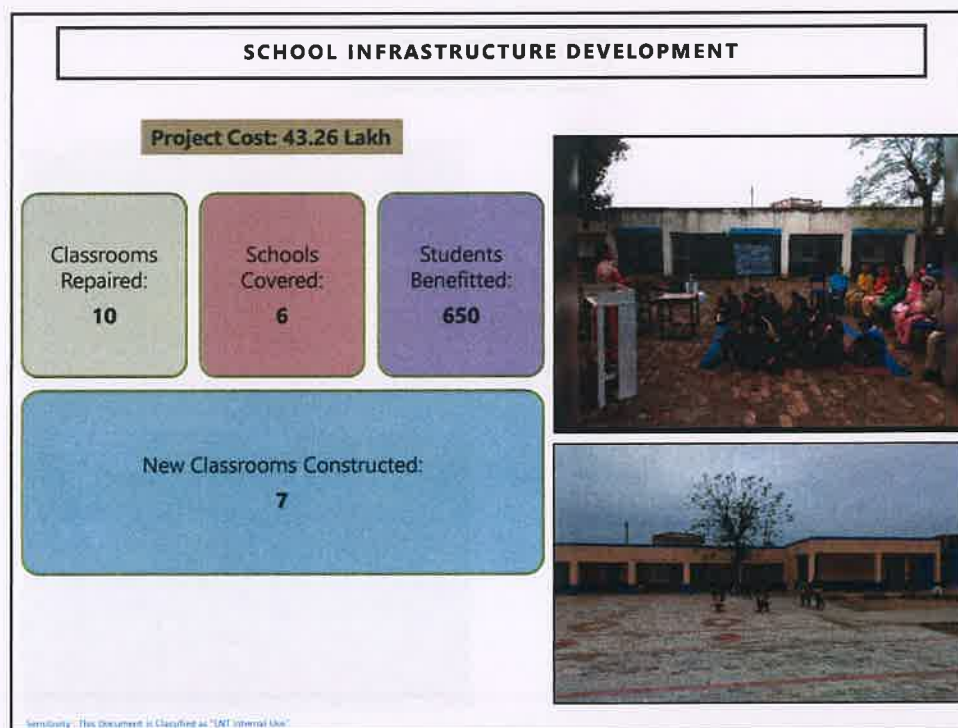


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24



25



26

CONSTRUCTION OF MODEL ANGANWARIS

Project Cost: 8.68 Lakh



Anganwari Intervention

- 1 Facility
- 30 kids
- 300 Households

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27

HEALTH INTERVENTION CANCER CARE CAMP

No of Medical Camps Organised	No of Villages Covered	No of Registration	Male	Female
2	12	945	667	278



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28

MEDIA COVERAGE

ਧਰਮਲ ਪਲਾਂਟ ਨੇ ਸੀਚੇਵਾਲ ਦੀ ਰਾਹ ਪਰ ਛੱਡ ਕੇ ਪਾਣੀ ਦਾ ਖੁਸ਼ ਕਰਨੇ ਦਾ ਲਗਾਵਾ ਪਲਾਂਟ

ਪਾਣੀ ਦਾ ਖੁਸ਼ ਕਰਨੇ ਦੀ ਰਾਹ ਪਰ ਛੱਡ ਕੇ ਪਾਣੀ ਦਾ ਖੁਸ਼ ਕਰਨੇ ਦਾ ਲਗਾਵਾ ਪਲਾਂਟ



INBRIEF

NPL PROVIDES FINANCIAL ASSISTANCE TO 7 MORE FAMILIES



Rajpura (Patiala): Under the ongoing efforts to facilitate the families facing economic hardships in the light of the girls, the NPL provides financial assistance to seven more families under the Shapoori Scheme by providing the cheque of Rs 21,000 (Twenty-One Thousand Only) each. On this occasion, Mr. Athar Shahab, Chief Executive Officer, NPL, is committed to the cause of girl welfare for which it is running two and the Shapoori Scheme under which a sum of assistance is provided for the girl's marriage. The scheme has been started by the NPL as a part of its CSR initiatives and till date, as many as 3,000 families have benefited from both the schemes.

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Sewing machine returns as a powerful tool for women economic liberation in Punjab

By Babushah Bureau
11:11:21 AM, Friday, Nov 20, 2020 06:04 PM
Updated: Friday, Nov 20, 2020 06:06 PM



GO BACK



Sewing machine returns as a powerful tool for women economic liberation in Punjab

Rajpura (Patiala), November 20, 2020: The humble sewing machine, with its subtle contribution in helping rural folks earn a living, has returned as a powerful tool of economic liberation for women in more than 49 villages of Patiala and Fatehgarh Sahib districts.

Followers (300)

All activity Articles Posts Documents

10 girl students who have selected under NPL scholarship program for pursuing 3 years' Nursing course from a reputed college have been given an opportunity to interact with our CE (Mr. Athar Shahab sir) and CSR committee members. This is our new CSR endeavour aimed at women empowerment and addressing gender issues through education. #Opportunity @nursing @students @highereducation @gender @inclusion



MEDIA COVERAGE

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10 ਹੋਰਗਰ ਲੜਕੀਆਂ ਨੂੰ ਚਿੱਤੇ ਵਜੀਏ

10 ਹੋਰਗਰ ਲੜਕੀਆਂ ਨੂੰ ਚਿੱਤੇ ਵਜੀਏ

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ਬਰਮਲ ਪਲਾਂਟ ਪ੍ਰਬੰਧਕਾਂ ਵਲੋਂ ਲੋੜਵੰਦ ਲੜਕੀਆਂ ਲਈ ਵਜੀਏ ਸੇਵਾ ਸ਼ੁਰੂ



ਬਰਮਲ ਪਲਾਂਟ ਪ੍ਰਬੰਧਕਾਂ ਵਲੋਂ ਲੋੜਵੰਦ ਲੜਕੀਆਂ ਲਈ ਵਜੀਏ ਸੇਵਾ ਸ਼ੁਰੂ

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ਬਰਮਲ ਪਲਾਂਟ ਪ੍ਰਬੰਧਕਾਂ ਵਲੋਂ ਲੋੜਵੰਦ ਲੜਕੀਆਂ ਲਈ ਵਜੀਏ ਸੇਵਾ ਸ਼ੁਰੂ

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Annexure-11

Ambient Air Quality Monitoring Results

Test Report

Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012230742 Sample Reg. Date :23-12-2020 Report Date :29-12-2020 Report No. :ICE-2012290927 NABL ULR No. :TC592620000010382F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: NDCT
Date of Monitoring	: 21-12-2020
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.24
Volume of air sampled, m ³	: 1829.79
Avg. Ambient Temperature, °C	: 17

TEST RESULTS				
Description				
Description		Ambient Air Quality Monitoring		
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	10
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	14
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	89
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	46
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	17
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ:0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.4
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	9
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

V Saini
Vikrant
29-12-2020
Reviewer

Saurabh
29-12-2020
Saurabh Sharma
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

Phone : (O) 0172-2561543, 2565825

Visit us : www.itclabs.com Email : customersupport@itclabs.com

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012230742 Sample Reg. Date :23-12-2020 Report Date :29-12-2020 Report No. :ICE-2012290927 NABL ULR No. :TC592620000010382F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ:0.1)

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******

V Saini
Vikrant
29-12-2020
Reviewer

Saurabh
29-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

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Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012230741 Sample Reg. Date :23-12-2020 Report Date :29-12-2020 Report No. :ICE-2012290926 NABL ULR No. :TC592620000010381F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information Location of Sampling Point : Near Loco Shed Date of Monitoring : 21-12-2020 Purpose of Monitoring : For Self Monitoring Duration of Monitoring, minutes : 1440 Avg. Flow Rate of Sampling, m ³ /min : 1.19 Volume of air sampled, m ³ : 1714.53 Avg. Ambient Temperature, °C : 17	

TEST RESULTS				
Description				
Description	Ambient Air Quality Monitoring			
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	11
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	19
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	88
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	49
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	18
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ:0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.3
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	10
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

V. Saini

Vikrant
29-12-2020
Reviewer

Saurabh

29-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012230741 Sample Reg. Date :23-12-2020 Report Date :29-12-2020 Report No. :ICE-2012290926 NABL ULR No. :TC592620000010381F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ:0.1)

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******

V Saini

Vikrant
29-12-2020
Reviewer

Saurabh

29-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

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Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012240760 Sample Reg. Date :24-12-2020 Report Date :29-12-2020 Report No. :ICE-2012290988 NABL ULR No. :TC592620000010421F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: Near Storm Water Sump
Date of Monitoring	: 22-12-2020
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.25
Volume of air sampled, m ³	: 1800.8
Avg. Ambient Temperature, °C	: 17

TEST RESULTS				
Description				
Description		Ambient Air Quality Monitoring		
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	8
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	12
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	88
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	43
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	17
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ : 0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.2
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	9
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

V. Saini

Vikrant
29-12-2020
Reviewer

Saurabh

29-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

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Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012240760 Sample Reg. Date :24-12-2020 Report Date :29-12-2020 Report No. :ICE-2012290988 NABL ULR No. :TC592620000010421F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ : 1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ : 1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ : 0.1)

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******

V Saini
Vikrant
29-12-2020
Reviewer

Saurabh
29-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

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Issued To	Sample Reg. No. :E01-2012240759
Nabha Power Limited	Sample Reg. Date :24-12-2020
Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala	Report Date :29-12-2020
Rajpura	Report No. :ICE-2012290987
	NABL ULR No. :TC592620000010422F
	Customer Ref. No. :PO
	Letter Dated :01.12.2020

Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: Near Switch Yard
Date of Monitoring	: 22-12-2020
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.25
Volume of air sampled, m ³	: 1800.98
Avg. Ambient Temperature, °C	: 17

TEST RESULTS				
Description				
Description		Ambient Air Quality Monitoring		
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	6
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	9
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	91
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	46
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	16
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ : 0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.3
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	7
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

V. Saini

Vikrant
29-12-2020
Reviewer

Saurabh Sharma

29-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012240759 Sample Reg. Date :24-12-2020 Report Date :29-12-2020 Report No. :ICE-2012290987 NABL ULR No. :TC592620000010422F Customer Ref. No.: PO Letter Dated :01.12.2020
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j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ : 1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ : 1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ : 0.1)

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******

V Saini

Vikrant
29-12-2020
Reviewer

Saurabh

29-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012250831 Sample Reg. Date :25-12-2020 Report Date :30-12-2020 Report No. :ICE-2012301142 NABL ULR No. :TC592620000010625F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: Village- Dabhali
Date of Monitoring	: 23-12-2020
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.23
Volume of air sampled, m ³	: 1778.30
Avg. Ambient Temperature, °C	: 16

TEST RESULTS				
Description				
Description		Ambient Air Quality Monitoring		
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO2),µg/m3	IS:5182(P-2)	80 Max	10
b.	Nitrogen Dioxide(NO2),µg/m3	IS:5182(P-6)	80 Max	16
c.	Particulate Matter (PM ₁₀),µg/m3	IS:5182(P-23)	100 Max	93
d.	Particulate matter (PM _{2.5}),µg/m3	STP/ITC/EW-01	60 Max	51
e.	Ozone(O ₃),µg/m3	IS:5182(P-9)	180 Max	16
f.	Lead(As Pb),µg/m3	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ : 0.1)
g.	Carbon Monoxide(CO),mg/m3	IS:5182(P-10)	4 Max	1.2
h.	Ammonia(NH3),µg/m3	Method of Air Sampling & Analysis(Method No. 401)	400 Max	8
i.	Benzene (C ₆ H ₆),µg/m3	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

V Saini
Vikrant
30-12-2020
Reviewer

Saurabh
30-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012250831 Sample Reg. Date :25-12-2020 Report Date :30-12-2020 Report No. :ICE-2012301142 NABL ULR No. :TC592620000010625F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ : 1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ : 1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ : 0.1)

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*****End Of Report*****

V Saini
Vikrant
30-12-2020
Reviewer

Saurabh
30-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012250832 Sample Reg. Date :25-12-2020 Report Date :30-12-2020 Report No. :ICE-2012301141 NABL ULR No. :TC592620000010630F Customer Ref. No. :PO Letter Dated :01.12.2020
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Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: Village- Dadumajra
Date of Monitoring	: 23-12-2020
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.23
Volume of air sampled, m ³	: 1778.30
Avg. Ambient Temperature, °C	: 16

TEST RESULTS

Description

Description: Ambient Air Quality Monitoring

S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	11
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	19
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	96
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	54
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	18
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ : 0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.3
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	10
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

V. Saini

Vikrant
30-12-2020
Reviewer

Saurabh

30-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

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Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012250832 Sample Reg. Date :25-12-2020 Report Date :30-12-2020 Report No. :ICE-2012301141 NABL ULR No. :TC592620000010630F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ : 1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ : 1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ : 0.1)

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******

V Saini

Vikrant
30-12-2020
Reviewer

Saurabh

30-12-2020
Saurabh Sharma
[Authorized Signatory]

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Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012250830 Sample Reg. Date :25-12-2020 Report Date :30-12-2020 Report No. :ICE-2012301140 NABL ULR No. :TC592620000010634F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: Village- Salempur
Date of Monitoring	: 23-12-2020
Purpose of Monitoring	: For self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.23
Volume of air sampled, m ³	: 1790.69
Avg. Ambient Temperature, °C	: 14

TEST RESULTS				
Description				
Description		Ambient Air Quality Monitoring		
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	13
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	18
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	95
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	54
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	15
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ : 0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.3
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	8
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

V Saini

Vikrant
30-12-2020
Reviewer

Saurabh

30-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

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Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2012250830 Sample Reg. Date :25-12-2020 Report Date :30-12-2020 Report No. :ICE-2012301140 NABL ULR No. :TC592620000010634F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ : 1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ : 1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ : 0.1)

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******

V Saini
Vikrant
30-12-2020
Reviewer

Saurabh
30-12-2020
Saurabh Sharma
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130477 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220911 NABL ULR No. :TC592621000002911F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: Near NDCT
Date of Monitoring	: 10-03-2021
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.29
Volume of air sampled, m ³	: 1768.23
Avg. Ambient Temperature, °C	: 31

TEST RESULTS				
Description				
Description		Ambient Air Quality Monitoring		
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	6
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	10
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	87
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	40
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	19
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ (LOQ:0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.2
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	15
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130477 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220911 NABL ULR No. :TC592621000002911F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--


j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ (LOQ:1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ (LOQ:1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ (LOQ:0.1)

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130476 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220910 NABL ULR No. :TC592621000002922F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: Near Loco Shed
Date of Monitoring	: 10-03-2021
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.28
Volume of air sampled, m ³	: 1754.52
Avg. Ambient Temperature, °C	: 31

TEST RESULTS				
Description				
Description		Ambient Air Quality Monitoring		
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	9
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	13
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	81
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	40
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	15
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ (LOQ:0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.3
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	10
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

Saurabh
Saurabh Sharma
22-03-2021
Reviewer

PremKumar
22-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130476 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220910 NABL ULR No. :TC592621000002922F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ (LOQ:1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ (LOQ:1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ (LOQ:0.1)

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130474 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220908 NABL ULR No. :TC592621000002921F Customer Ref. No. :PO Letter Dated :01.12.2021
---	--

Test Report as per	: NAAQS 2009
General Information Location of Sampling Point : Near Storm Water Sump Date of Monitoring : 10-03-2021 Purpose of Monitoring : For Self Monitoring Duration of Monitoring, minutes : 1440 Avg. Flow Rate of Sampling, m ³ /min : 1.28 Volume of air sampled, m ³ : 1754.52 Avg. Ambient Temperature, °C : 31	

TEST RESULTS				
Description				
Description	Ambient Air Quality Monitoring			
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	8
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	12
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	84
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	43
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	18
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ (LOQ:0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.3
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	11
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
Prem Kumar
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130474 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220908 NABL ULR No. :TC592621000002921F Customer Ref. No. :PO Letter Dated :01.12.2021
---	--

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ (LOQ:1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ (LOQ:1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ (LOQ:0.1)

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130475 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220909 NABL ULR No. :TC592621000002918F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information Location of Sampling Point : Near Switch Yard Date of Monitoring : 10-03-2021 Purpose of Monitoring : For Self Monitoring Duration of Monitoring, minutes : 1440 Avg. Flow Rate of Sampling, m ³ /min : 1.25 Volume of air sampled, m ³ : 1713.40 Avg. Ambient Temperature, °C : 31	

TEST RESULTS				
Description				
Description	Ambient Air Quality Monitoring			
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	6
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	10
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	88
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	45
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	16
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ (LOQ:0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.4
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	13
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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(A Government Approved Test House)

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103130475 Sample Reg. Date :13-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220909 NABL ULR No. :TC592621000002918F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ (LOQ:1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ (LOQ:1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ (LOQ:0.1)

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103160592 Sample Reg. Date :16-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220959 NABL ULR No. :TC592621000002903F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: Village- Dabhali
Date of Monitoring	: 13-03-2021
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.28
Volume of air sampled, m ³	: 1763.74
Avg. Ambient Temperature, °C	: 29

TEST RESULTS

Description

Description: Ambient Air Quality Monitoring

S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	10
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	19
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	86
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	43
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	15
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ: 0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.3
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	20
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ(LOQ:1.0)

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103160592 Sample Reg. Date :16-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220959 NABL ULR No. :TC592621000002903F Customer Ref. No. :PO Letter Dated :01.12.2020
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j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ: 1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ: 1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ: 0.1)

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103160594 Sample Reg. Date :16-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220961 NABL ULR No. :TC592621000002913F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: Village- Dadumajra
Date of Monitoring	: 13-03-2021
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.28
Volume of air sampled, m ³	: 1763.74
Avg. Ambient Temperature, °C	: 29

TEST RESULTS				
Description				
Description		Ambient Air Quality Monitoring		
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	10
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	15
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	89
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	44
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	18
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ: 0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.2
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	12
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ(LOQ:1.0)

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103160594 Sample Reg. Date :16-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220961 NABL ULR No. :TC592621000002913F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ: 1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ: 1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ: 0.1)

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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Test Report

Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103160593 Sample Reg. Date :16-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220960 NABL ULR No. :TC592621000002905F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

Test Report as per	: NAAQS 2009
General Information	
Location of Sampling Point	: Village- Salempur
Date of Monitoring	: 13-03-2021
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring, minutes	: 1440
Avg. Flow Rate of Sampling, m ³ /min	: 1.28
Volume of air sampled, m ³	: 1763.74
Avg. Ambient Temperature, °C	: 29

TEST RESULTS				
Description				
Description		Ambient Air Quality Monitoring		
S.No.	Test Parameter	Method	Requirement	Result
Test Details :				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	12
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	17
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	92
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	48
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	17
f.	Lead(As Pb), µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ: 0.1)
g.	Carbon Monoxide(CO), mg/m ³	IS:5182(P-10)	4 Max	1.4
h.	Ammonia(NH ₃), µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	19
i.	Benzene (C ₆ H ₆), µg/m ³	IS 5182 (Part 11)	5 Max	BLQ(LOQ:1.0)

Saurabh Sharma
22-03-2021
Reviewer

22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

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Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103160593 Sample Reg. Date :16-03-2021 Report Date :22-03-2021 Report No. :ICE-2103220960 NABL ULR No. :TC592621000002905F Customer Ref. No.: PO Letter Dated :01.12.2020
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j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ: 1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ: 1.0)
m.	Mercury (as Hg),µg/m3	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ: 0.1)

represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Requirements as per NAAQS 2009, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

*******End Of Report*******


Saurabh Sharma
22-03-2021
Reviewer


22-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

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Annexure-12

Surface Water Quality Report

Test Report


Document QF : 2501

Page 1 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103180627 Sample Reg. Date :18-03-2021 Report Date :23-03-2021 Report No. :ICE-2103230978 NABL ULR No. :TC592621000002949F Customer Ref. No. :PO Letter Dated :01.12.2020
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Test Report as per IS:BIS Specification IS:10500-2012	With Amendment No.(s):02
--	---------------------------------

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Surface Water
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values,if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	2 Ltr
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in can
l)	Date of Receipt	18-03-2021
m)	Date of Start	18-03-2021
n)	Date of Completion	23-03-2021
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. Mr. Kimiti on 12.03.2021
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS

a.	Reference to sampling procedure, whenever applicable	: N/A
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Saurabh Sharma
23-03-2021
Reviewer

23-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

Phone : (O) 0172-2561543, 2565825

Visit us : www.itclabs.com Email : customersupport@itclabs.com

Disclaimer :

- Sample (s) not drawn by us unless otherwise stated.
- Total Liability of this Laboratory is limited to the Invoiced amount.
- Test certificates in full or parts shall not be used for promotional or publicity purpose.
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Test Report

Document QF : 2501

Page 2 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103180627 Sample Reg. Date :18-03-2021 Report Date :23-03-2021 Report No. :ICE-2103230978 NABL ULR No. :TC592621000002949F Customer Ref. No.: PO Letter Dated :01.12.2020
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b. Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any : N/A
c. Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any : N/A

PART C : TEST RESULTS

Description

Description Clear colourless liquid

S.No.	Test Parameter	Method	Acceptable Limit	Permissible Limit (Absence of Alternate Source)	Result
Test Details :					
1.	Organoleptic & Physical Parameter				
a.	Colour (Hazen)	IS:3025(Part4):1983(RA:2017)amd. no1	5 Max.	15 Max.	4
b.	Odour	IS:3025(Part 5):1983(RA:2017)	Agreeable	-	Agreeable
c.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5	No relaxation	7.87
d.	Turbidity(NTU)	IS:3025(Part 10):1984(RA:2017)	1 Max.	5 Max.	<0.5
e.	Total Dissolved Solids,(mg/L)	IS:3025(Part 16):1984(RA:2006)	500 Max.	2000 Max.	141
2.	Parameters Concerning Undesirable Substances in excess amount				
a.	Chloride(as Cl) (mg/l)	IS:3025(Part 32):1988(RA:2014)	250 Max.	1000 Max.	2
b.	Fluoride as F (mg/l)	IS:3025(Part 60):2008 amd. no 1(RA:2013)	1.0 Max.	1.5 Max.	BLQ(LOQ:0.1)
c.	Free Residual Chlorine, (mg/L)	IS:3025(P-26)	0.2 Min.	1.0 Max.	Not Applicable
d.	Iron (as Fe) (mg/L)	IS:3025(Part 53):2003(RA:2014)	1.0 Max.	No relaxation	BLQ(LOQ:0.01)
e.	Nitrate as NO ₃ (mg/l)	IS:3025(Part 34):1988(RA:2014)	45 Max.	No Relaxation	BLQ(LOQ:1.0)

Saurabh Sharma
23-03-2021
Reviewer

23-03-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 3 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103180627 Sample Reg. Date :18-03-2021 Report Date :23-03-2021 Report No. :ICE-2103230978 NABL ULR No. :TC592621000002949F Customer Ref. No.: PO Letter Dated :01.12.2020
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f.	Sulphate(as SO ₄) (mg/L)	IS:3025(Part 24):1986(RA:2014)	200 Max.	400 Max.	18
g.	Total Alkalinity(as CaCO ₃)(mg/l)	IS:3025(Part 23)	200 Max.	600 Max.	83.6
h.	Total Hardness(as CaCO ₃), (mg/L)	IS 3025 (Part 21)	200 Max.	600 Max.	116.3

'#/' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Sampling Procedure - SOP/ITC/EW/030,

PART D : REMARKS :The above referred sample of Surface Water conforms to BIS Specification IS:10500-2012 with upto date amnds with respect to the above tests.

*****End Of Report*****


Saurabh Sharma
23-03-2021
Reviewer


23-03-2021
PremKumar
[Authorized Signatory]

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Annexure-13

Heavy Metals Analysis in Coal Report

Test Report


Document QF : 2501

Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103150531 Sample Reg. Date :15-03-2021 Report Date :20-03-2021 Report No. :ICE-2103200809-A Customer Ref. No.: PO Letter Dated :01.12.2020
---	---

Test Report as per IS:Party Specification	With Amendment No.(s):
--	-------------------------------

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Coal Sample
b)	Grade / Variety / Type / Class / Size etc.	NA
c)	Brand Name	NA
d)	Declared Values,if any	NA
e)	Code No.	
f)	Batch Number #	NA
g)	D.O.M #	NA
h)	Date of Expiry #	NA
i)	Sample Quantity #	150gm
j)	Batch Size/Location #	NA
k)	Mode of Packing	Packed in poly pack
l)	Date of Receipt	15-03-2021
m)	Date of Start	15-03-2021
n)	Date of Completion	20-03-2021
o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. on 13.03.2021
r)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
s)	Manufactured By #	NA
t)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS

a.	Reference to sampling procedure, whenever applicable	: N/A
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Saurabh Sharma
20-03-2021
Reviewer



20-03-2021
PremKumar
[Authorized Signatory]

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- If sample is not consumed during analysis, it will be stored as per required storage condition.

Test Report

Document QF : 2501
Page 2 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2103150531 Sample Reg. Date :15-03-2021 Report Date :20-03-2021 Report No. :ICE-2103200809-A Customer Ref. No.: PO Letter Dated :01.12.2020
---	---

b.	Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any	: N/A
c.	Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any	: N/A

PART C : TEST RESULTS

Description

Description	Coal Sample
-------------	-------------

S.No.	Test Parameter	Method	Result
Test Details :			
1.	Heavy Metals		
a.	Lead as Pb, (mg/kg)	In House	16.4
b.	Mercury as Hg (mg/kg)	In House	BLQ(LOQ :1.0)
c.	Arsenic as As, (mg/kg)	In House	BLQ(LOQ :1.0)
d.	Chromium as Cr (mg/kg)	In House	8.4

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification

PART D : REMARKS :N/A

*****End Of Report*****

Saurabh Sharma
20-03-2021
Reviewer

20-03-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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- If sample is not consumed during analysis, it will be stored as per required storage condition.

Annexure-14

Radioactive Analysis in Coal, Fly Ash and Bottom Ash Report



Sophisticated Analytical Instruments Laboratories Society (Registered as Society with Registrar of Firms & Societies, Punjab, Chandigarh)
Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Test Report No.:	NN(D)/20-21/356	Date:	09.03.2021
Service No.	NN(D)/20-21/356(01)	Customer's Ref.	Sample Collected by Mr. Amit Kumar on dtd 04.02.2021 & Submitted on dtd. 05.02.2021
Customer's name and address: M/s Nabha Power Limited Post Box 28, Near village Nalash Distt. Patiala 140401, Punjab Kind attn.: Mr. Ramanjit Singh			
Sample Description	Coal Samples		
Condition of the sample received	O.K.		
Customer's sample identification No. (if any)	--		
Quantity/number of samples	1 Kg / 1		
Sampling Procedure (if any)	--		
Test parameters	Alpha emitters, Beta emitters, Gamma emitters		
Standard/Specification/Method followed	As mentioned below		
Deviations (if any)	--		
Documents constituting this report (if any)	--		
Date of Receipt of Job	Date of Completion of Job	Total Number of Pages	
05.02.2021	09.03.2021	1	

TEST RESULTS

S. No.	Parameters	Test Method	Unit	Results
1	Alpha emitters	EPA-600/4-78-039 July 1978 Followed by Radiation Counting System Rc605 A with Alpha Scintillation detector	Bq/Kg	Not detected
2	Beta emitters	EPA-600/4-78-039 July 1978 Followed by Radiation Counting System Rc605 A with GM detector Probe	Bq/Kg	Not detected
3	Gamma emitters	EPA-600/4-78-039 July 1978 Followed by Radiation Counting System Rc605 A with GM detector Probe	Bq/Kg	Not detected

.....End of the report.....


M. Agarwal

Technical Manager
(Authorized Signatory)
SAI/FM/CSC-11



Sophisticated Analytical Instruments Laboratories Society (Registered as Society with Registrar of Firms & Societies, Punjab, Chandigarh)
Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Test Report No.:	NN(D)/20-21/357	Date:	09.03.2021
Service No.	NN(D)/20-21/357(01)	Customer's Ref.	Sample Collected by Mr. Amit Kumar on dtd 04.02.2021 & Submitted on dtd. 05.02.2021
Customer's name and address: M/s Nabha Power Limited Post Box 28, Near village Nalash Rajpura, Distt. Patiala 140401, Punjab Kind attn.: Mr. Ramanjit Singh			
Sample Description	Fly Ash		
Condition of the sample received	O.K.		
Customer's sample identification No. (if any)	--		
Quantity/number of samples	1 Kg / 1		
Sampling Procedure (if any)	--		
Test parameters	Alpha emitters, Beta emitters, Gamma emitters		
Standard/Specification/Method followed	As mentioned below		
Deviations (if any)	--		
Documents constituting this report (if any)	--		
Date of Receipt of Job	Date of Completion of Job	Total Number of Pages	
05.02.2021	09.03.2021	1	

TEST RESULTS

S. No.	Parameters	Test Method	Unit	Results
1	Alpha emitters	EPA-600/4-78-039 July 1978 Followed by Radiation Counting System Rc605 A with Alpha Scintillation detector	Bq/Kg	Not detected
2	Beta emitters	EPA-600/4-78-039 July 1978 Followed by Radiation Counting System Rc605 A with GM detector Probe	Bq/Kg	Not detected
3	Gamma emitters	EPA-600/4-78-039 July 1978 Followed by Radiation Counting System Rc605 A with GM detector Probe	Bq/Kg	Not detected

.....End of the report.....


M. Agarwal

Technical Manager
(Authorized Signatory)
SAI/FM/CSC-11



Sophisticated Analytical Instruments Laboratories Society (Registered as Society with Registrar of Firms & Societies, Punjab, Chandigarh)
Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Test Report No.:	NN(D)/20-21/358	Date:	09.03.2021
Service No.	NN(D)/20-21/358(01)	Customer's Ref.	Sample Collected by Mr. Amit Kumar on dtd 04.02.2021 & Submitted on dtd. 05.02.2021
Customer's name and address:			
M/s Nabha Power Limited Post Box 28, Near village Nalash Rajpura, Distt. Patiala 140401, Punjab Kind attn.: Mr. Ramanjit Singh			
Sample Description	Bottom Ash		
Condition of the sample received	O.K.		
Customer's sample identification No. (if any)	--		
Quantity/number of samples	1 Kg / 1		
Sampling Procedure (if any)	--		
Test parameters	Alpha emitters, Beta emitters, Gamma emitters		
Standard/Specification/Method followed	As mentioned below		
Deviations (if any)	--		
Documents constituting this report (if any)	--		
Date of Receipt of Job	Date of Completion of Job	Total Number of Pages	
05.02.2021	09.03.2021	1	

TEST RESULTS

S. No.	Parameters	Test Method	Unit	Results
1	Alpha emitters	EPA-600/4-78-039 July 1978 Followed by Radiation Counting System Rc605 A with Alpha Scintillation detector	Bq/Kg	Not detected
2	Beta emitters	EPA-600/4-78-039 July 1978 Followed by Radiation Counting System Rc605 A with GM detector Probe	Bq/Kg	Not detected
3	Gamma emitters	EPA-600/4-78-039 July 1978 Followed by Radiation Counting System Rc605 A with GM detector Probe	Bq/Kg	Not detected

.....End of the report.....


M. Agarwal

Technical Manager
(Authorized Signatory)
SAI/FM/CSC-11