



NABHA POWER LIMITED

NPL
Nabha Power Limited

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

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Letter.No.: NPL/HSE/RB/MoEFCC/DR/220530/1

Date 30.05.2022

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 2021 to 31st March 2022.

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 2021 to 31st March 2022.

Thanking you,

Yours Sincerely,

 30/5/22

(Rajiv Bhandari)
Authorised Signatory
Nabha Power Limited

Encl: As above.

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

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CIN No: U40102PB2007PLC031039

SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

**NABHA POWER LIMITED
2x700 MW THERMAL POWER PLANT**



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

Submitted to:

- Regional Office (Northern Region), Ministry of Environment, Forests and Climate Change, Chandigarh-160030.
- Ministry of Environment, Forests and Climate Change, New Delhi-110003.
- Central Pollution Control Board, Delhi
- Punjab State Pollution Control Board, Patiala.

Submitted By:
**NABHA POWER LIMITED
VILL. NALASH
PATIALA (PUNJAB)**

Period: 1st October-2021 to 31st March-2022

CONTENTS

Sl. No.	Title	Annexure
1.	Introduction	
2.	Compliance status of Environment Clearance (EC)	
List of Annexure		
3.	Environmental Monitoring Reports from 1 st October-2021 to 31 st March-2022.	
4.	Test Report of Sulphur % in Coal	Annexure -1
6.	Stack Emission Monitoring Results and Photograph of Continuous Emission Monitoring System (CEMS).	Annexure-2
7.	Measures Taken to Control Fugitive Emissions	Annexure-3
8.	Fly Ash Utilization Report	Annexure-4
9.	Heavy Metal Analysis in Fly Ash and Bottom Ash Report	Annexure-5
10.	Treated Sewage Monitoring Results	Annexure-6
11.	Ground Water Quality Monitoring Results	Annexure-7
12.	Green Belt Photographs	Annexure-8
13.	CSR Photograph & CSR Audit Report	Annexure-9
14.	Ambient Air Quality Monitoring Results	Annexure-10
15.	Expenses Incurred for Environment Protection Measures in FY 2021-2022	Annexure-11
16.	The Photograph of Main Gate Display.	Annexure-12
17.	Solar Harness Report.	Annexure-13
18.	Test Report of Heavy Metal Analysis in Coal.	Annexure-14
19.	Test Report of Radioactive Analysis in Coal, Fly Ash and Bottom Ash.	Annexure-15
20.	Test Report of Surface Water Quality.	Annexure-16

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	5.8 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 # 1 & U# 2 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-2021 to March-2022.

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 in the coal being used are below 0.5% The Testing Reports are attached here as Annexure 1 . According to MoEF & CC S.o.No.1561 Dtd.21.05.2020 "Use of coal by Thermal Power Plants, without stipulations as regards ash content or distance, shall be permitted subject to compliance with specified emission norms for particulate matter"(PM < 50 mg/nm3).The stack emission monitoring report from PPCB as well as from MoEF&CC and NABL approved laboratory for particulate matter is attached as Annexure-2 . Report -1 Punjab Pollution Control Report Dtd: - 20.12.2021. Report - 2 Dated 17.12.2021 & 12.03.2022.
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 always maintained more than 22 m/sec in both the units. The Stack Emission Monitoring Reports from MoEF & CC and NABL approved laboratory of Dated 17.12.2021 & 12.03.2022. are attached here as Annexure-2 .
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 report from PPCB as well as from MoEF&CC and NABL approved laboratory for particulate matter is attached as Annexure-2 . Report -1 Punjab Pollution Control Report Dtd: - 20.12.2021. Report - 2 Dated 17.12.2021& 12.03.2022.
6.	Space provision shall be kept for retrofitting for FGD, if required at later date.	Space provision of installation of FGD has been kept and 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,	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

	transfer areas and other vulnerable dusty areas shall be provided.	the same is attached here as Annexure-3 .
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 yearly basis. Ash utilization report for the period of FY 2021-22 is attached here as Annexure-4 Analysis of heavy metals is being done for both bottom & fly ash on six monthly basis. Latest report dated 19.03.2022 are attached as Annexure-5
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.	Closed cycle cooling system with cooling towers is provided. No effluent is generated as the plant is designed for ZLD (Zero Liquid Discharge).
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 dated 16.12.2021 & 14.03.2022 are attached as Annexure-6
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 stage.
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 of ground water in and around ash pond is being done and reports are being submitted to the PPCB on a monthly basis reports are attached as Annexure-7 . Report -1 Punjab Pollution Control Report Dtd: - 20.12.2021. Report - 2 Dated 16.12.2021 & 12.03.2022.
18.	A green belt of adequate width and density shall be	1/3 rd of the total area have been covered under green belt

	developed around plant periphery covering about 1/3 rd of project area preferably with local species.	with native species. The Green Belt Development photographs are attached as Annexure-8
19.	Activities under CSR shall be enhanced with proper financial allocation. Details of these activities shall be submitted to the Regional Office of the Ministry, SPCB and the Ministry.	INR 1.97 Crore was spent between 1st Oct 2021 to 31st March 2022. Achieved the set target of INR 3.62 Crore of Annual CSR Budget FY21-22. Activity Pics are attached herewith as Annexure No-9
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 as per statutory norms.
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. Monitoring reports of dated 31.12.2021 & 14.03.2022 are attached as Annexure-10
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 & needs.
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.	Half year reports are regularly being submitted to <ul style="list-style-type: none"> ❖ MoEF&CC New Delhi, ❖ MoEF&CC, RO (North Region), Chandigarh, ❖ CPCB, Delhi and ❖ PPCB Patiala. The detail of submitted half yearly reports as below: <ul style="list-style-type: none"> ❖ Report for the period from October 2020 to March -2021 was submitted on 29.05.2021. ❖ Report for the period from April 2021 to September 2021 was submitted on 30.11.2021
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	Separate funds are allocated. Fund spent in the FY 2021-

	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.	2022 are attached are as Annexure No-11 .
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 since 2014 after taken all necessary approval from state/central.
29.	Full co-operation should be extended to the scientists/officers from the Ministry/Regional office of the Ministry at Chandigarh/the CPCB/the SPCB who would be monitoring compliance of environmental status.	The NPL is providing full co-operation to the scientists/officers from the Ministry/Regional office of the Ministry at Chandigarh/the CPCB/the SPCB who are monitoring compliance of environmental status, time to time.
30.	No additional coal consumption beyond 5.8 MTPA (at 85 % PLF) earlier envisaged for 2 x 660 MW and no additional land for the enhanced capacity shall be permitted.	Being Complied.
31.	The project proponent shall upload the status of compliance of the conditions stipulated in the environmental clearance issued vide Ministry's letter of even no. dated 03.10.2008, in its website and update periodically and also simultaneously send the same by email to regional office of Ministry of Environment and Forests.	NPL website is live & the compliance reports are uploaded periodically on website. Website address: http://www.Intnabhapower.com
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.	Monitoring reports are uploaded on NPL website as well as displayed at main gate The Photograph of main gate display is attached as Annexure-12 .

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 are provided on field hostel roof, Clarifier area, CHP and at DM plant area and are functional. The harness report is attached as Annexure No-13 .
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.	Heavy metal & Radioactive contents in coal, fly ash and bottom ash are being analysis on six monthly basis. Latest reports dated 14.03.2022 & 03.03.2022 are attached as Annexure-5,14 &15 respectively .
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. The reports dated 17.12.2021 & 13.03.2022 are attached as Annexure-2
36	Fugitive emissions shall be controlled to prevent impact on agriculture or non-agriculture land.	Adequate measures to control fugitive emissions are 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 Hydrology study of the area was conducted before the grant of EC by MOEF&CC. No groundwater abstraction is being done. We are only using Canal water for the 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 filling is to be adopted, prior detailed study of soil characteristics of mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close coordination with the State Pollution Control Board	Fly ash is being utilized as per the Notification from MoEF&CC.
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.	For schools ❖ All schools in NPL catchment area have drinking water facilities linked to OH tanks / deep borewells. ❖ NPL supported Govt. Schools by providing school furniture and undertook construction of classrooms – 7 Nos. ❖ Ongoing Learning Enrichment Program (LEP) across 10 Govt Schools where Teachers have been deployed to improve the learning levels of students in Mathematics & English subjects.
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.	The Expert Appraisal Committee of MoEFCC vide its minutes dated January 11, 2022, has recommended the proposal for deletion of CSR clause in the EC of NPL. In view of the above, the Company would be required to spend an amount as prescribed under the Companies Act. This amount works out to INR 3.6 Cr. for FY 2021-22 and INR 4.76 Cr. For FY22-23
48	CSR scheme should address Public Hearing issues and shall be undertaken based on need based assessment in and around villages within 5.0 km of the site and in constant consultation with the village Panchayat and District administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall also be undertaken. Development of fodder farm, fruit bearing orchards,	Complied. CSR Coverage spread across 49 villages in radius of 5 kms of the Plant. All schemes are being implemented in the target villages in consultation with village panchayats. Following community development works has been taken up in last six months (Oct 21 – March 22): - ❖ Economically Weaker Section Housing: A housing unit comprising of One living room, kitchen and

	<p>vocational training etc. can form a part of such program. Company shall provide separate budget for community development activities and income generating programs. Vocational training program for possible self-employment and jobs shall be imparted to identify villagers free of cost.</p>	<p>toilet was constructed and handed over to 8 needy families covering 8 villages.</p> <ul style="list-style-type: none"> ❖ Road Development: Concrete roads were laid in 7 villages up to 1.05 Kms ❖ Community Shed: A community shed was constructed and handed over to enable the villagers to organize their social functions like marriages/religious together or other common functions. This shed caters to nearby 3 villages. ❖ Cleaning of village Ponds/Natural Drains: To prevent flooding in fields and water logging in low lying areas, 10 village panchayats have been supported with required machinery to clean the ponds/natural drains. ❖ Skill Training (Females): Being imparted free of cost through 05 vocational training centres. Courses being run include Beautician, Tailoring, Embroidery, production of jute items (72 trained as Beautician, 91 trained in Stitching course) ❖ Scholarships for Skill Training: 36 youth of economically weaker section were mobilized, enrolled, and supported with course fee to pursue various trades at ITI, Rajpura. ❖ Enrolment of females in National Small Industries Corporation (NSIC) Courses: 45 females were mobilized, counselled, and admitted in career courses namely Data Entry Operator, Computer Based Accounting, Assistant Beauty Therapist and Sewing Machine Operator of NSIC Rajpura. ❖ Medical Camps: - 750 people benefitted through 4 medical camps.
49	<p>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.</p>	<p>In-built monitoring through NPL Executive committee on CSR comprising of three members and is chaired by a Senior Company Official which meets from time to time to review and monitor the progress on Annual CSR plan. Social Audit was conducted by Grameen-Social Organization copy of report is attached as Annexure No-9</p>
50	<p>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.</p>	<p>An Environmental Cell Headed by DGM-HSE is already in place, who directly reports to the Head of Organisation.</p>
51	<p>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.</p>	<p>Regular monitoring of ground water quality including heavy metals is being carried out regularly in and around the Ash Dyke. Piezometer wells are established around the ash pond area and being regularly monitored. The reports dated 16.12.2021 & 12.03.2022 are attached as Annexure-7</p>
52	<p>Monitoring of the surface quantity and quality shall also be regularly conducted, and records maintained. The</p>	<p>No Ground Water is being abstracted as we are using Bhakra Canal water for generation of Power. The quality and</p>

	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.	quantity of the canal water is monitored, and records are being maintained. Latest reports dated 27.01.2022 are attached as Annexure-16 We are already monitoring heavy metals in the ground water by taking samples through a piezometer on a monthly basis and submitting the respective reports to the regional office of the PPCB at Patiala. The reports dated 16.12.2021 & 12.03.2022 is attached as Annexure-7 .
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. The last environmental statement report was submitted on 28.09.2021 to the Regional Office of the Ministry at Chandigarh and the 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. The organisation is certified for Integrated Management System requirements comprising of (ISO 9001, 14001 & 45001 & 50001)

Annexure – 1

Test Report of Sulphur % in Coal

Test Report

Document QF : 2501
Page 1 of 3

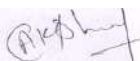
Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura (Punjab)	Sample Reg. No. :B01-2204210001 Sample Reg. Date :21-04-2022 Report Date :22-04-2022 Report No. :ICB-2204220002 NABL ULR No. :TC592622000006441F Customer Ref. No.: Mail Letter Dated :21.04.2022
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Test 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)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	
d)	Brand Name	NA
e)	Declared Values,if any	
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	150gm
k)	Batch Size #	NA
l)	Mode of Packing	Packed in poly pack
m)	Date of Receipt	21-04-2022
n)	Date of Start	21-04-2022
o)	Date of Completion	22-04-2022
p)	BIS Seal (Intact/Not Intact/Unsealed)	
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	


Kamal Grover
22-04-2022
Reviewer


22-04-2022
Akshay Sharma
[Authorized Signatory]

Disclaimer :

- The report is only for the sample tested.
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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 (Punjab)	Sample Reg. No. :B01-2204210001 Sample Reg. Date :21-04-2022 Report Date :22-04-2022 Report No. :ICB-2204220002 NABL ULR No. :TC592622000006441F Customer Ref. No.: Mail Letter Dated :21.04.2022
--	--

s) Test Request Submitted By	Nabha Power Limited - Rajpura (Punjab)
t) Manufactured By [#]	--
u) Supplied By [#]	Nabha Power Limited

PART B : SUPPLIMENTARY INFORMATIONS

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

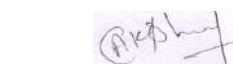
Description					
Description	Coal Sample				
S.No.	Test Parameter	Inst. Used	Method	Requirement	Result
Test Details :					
1.	Chemical Parameters				
a.	Sulphur(as S)(%)	Bomb Calorimeter	IS:1350(P-3)		0.44

[#] represents Customer Defined Fields

NOTE :

PART D : REMARKS :Party has asked for the above tests only.


Kamal Grover
22-04-2022
Reviewer


22-04-2022
Akshay Sharma
[Authorized Signatory]

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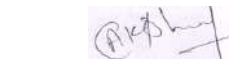
Test Report

Document QF : 2501
Page 3 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura (Punjab)	Sample Reg. No. :B01-2204210001 Sample Reg. Date :21-04-2022 Report Date :22-04-2022 Report No. :ICB-2204220002 NABL ULR No. :TC592622000006441F Customer Ref. No.: Mail Letter Dated :21.04.2022
--	--

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


Kamal Grover
22-04-2022
Reviewer


22-04-2022
AksheySharma
[Authorized Signatory]

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Annexure- 2

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



PUNJAB POLLUTION CONTROL BOARD
AIR LABORATORY, HEAD OFFICE, VATAVARAN BHAWAN, PATIALA

Ph:- 0175-2302392

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

1. Laboratory Sample No. 547/ H.O.Lab./Air Monitoring/2021
2. Name of Industry M/s Nabha Power Ltd., Vill. Nalash, Rajpura, Distt. Patiala
3. Name of Sample collecting Officer Er. Navtresh Singla (EE), Er. Amit Kumar (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 20.12.2021
7. Date & Time of Sample receipt in Lab. 21.12.2021
8. Point of Sample collection Details as Given Below

प.स.स. - 1/2/3/S.A.

क.स.स.

दि. 21.12.2021

डाटिरी नं. 03/01/2022

Results

Point of Sample Collection	Parameter	Results	Prescribed Standards
From Port hole on stack after ApCD of Unit I	Particulate Matter	36 mg/Nm ³	50 mg/Nm ³

Note: If any, stringent limits/specific standard has been prescribed time to time by MoEF & CC, CPCB and PPCB, then stringent limits/specific standard would prevail subject to clarification from the concerned Regional office

Endst. No: 251-253

Dt. 05/01/2022

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

1. The Chief Environmental Engineer, Punjab Pollution Control Board (Air), 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

Scientific Officer

Scientific Officer

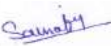
Test Report


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. :E01-2112221007 Sample Reg. Date :22-12-2021 Report Date :30-12-2021 Report No. :ICE-2112301443 NABL ULR No. :TC592621000015802F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

Test Report as per :	: EPA Act 1986/PCLS/2010
General Information : Date of Monitoring Time of Monitoring Name of the emission source monitored (a) Rated Capacity (b) Capacity on sampling day (c) Type of fuel used & its consumption (d) Normal operating schedule 2. Stack Identification 3.Type of Stack/Duct 4.Stack Height from Ground Level(m) Diameter of the Stack(cm) (6) Sampling Duration(minutes) Purpose of Monitoring (8) Air Pollution control measure (a) Status (b) Recovery of Material (9) Fugitive Emission,if any Observations : Flue Gas Temperature, °C,Avg. Flue Gas Velocity(m/s),Avg. Volumetric Flow Rate(Nm ³ /hr.) Ambient Air Temperature, °C	: 17-12-2021 : 12:05 to 12:32 hrs : Stack Emission of Boiler : 2322 Ton : - : Coal & 365 Ton/hrs : 24 hrs : Stack attached to Boiler Unit-1 : Metal : 275 : 750 : 27 : For Self Monitoring : ESP : Working : - : Nil : 125 : 25.26 : 2903646.15 : 12

S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			


Saurabh Sharma
30-12-2021
Reviewer


30-12-2021
PremKumar
[Authorized Signatory]

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Page 2 of 2

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---	--

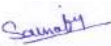
Group : Atmospheric Pollution
1. General Parameters
a. Particulate Matter, mg/Nm ³ (Corrected to 6% O ₂ on dry basis)
b. Sulphur Dioxide (SO ₂), mg/Nm ³ (Corrected to 6% O ₂ on dry basis)
c. Oxides of Nitrogen (NO _x), mg/Nm ³ (Corrected to 6% O ₂ on dry basis)
d. Mercury(As Hg),mg/Nm ³
e. Carbon Monoxide(CO),% v/v
f. Carbon Dioxide (CO ₂), %


'#' 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 17.12.2021, Sampling Procedure - SOP/ITC/EW/056

REMARKS :N/A

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


Saurabh Sharma
30-12-2021
Reviewer


30-12-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
Panchkula-134109 (Haryana)
Phone : (O) 0172-2561543, 2565825
Email : customersupport@itclabs.com
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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. :E01-2203140754 Sample Reg. Date :14-03-2022 Report Date :07-04-2022 Report No. :ICE-2204070228-A NABL ULR No. :TC592622000005064F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per :	: EPA Act 1986/PCLS/2010
General Information :	
Date of Monitoring	: 12-03-2022
Time of Monitoring	: 14:40 to 15:12 hrs
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 & 400 MTH
(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)	: 32
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 :	

Saurabh Sharma
07-04-2022
Reviewer

07-04-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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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. :E01-2203140754 Sample Reg. Date :14-03-2022 Report Date :07-04-2022 Report No. :ICE-2204070228-A NABL ULR No. :TC592622000005064F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Flue Gas Temperature, °C,Avg.	: 129
Flue Gas Velocity(m/s),Avg.	: 22.25
Volumetric Flow Rate(Nm ³ /hr.)	: 2508047.34
Ambient Air Temperature, °C	: 30

S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	General Parameters			
a.	Particulate Matter, mg/Nm ³ (Corrected to 6% O ₂ on dry basis)	IS:11255(P-1)	Max. 50	42.15
b.	Sulphur Dioxide (SO ₂), mg/Nm ³ (Corrected to 6% O ₂ on dry basis)	IS:11255(P-2)	Max. 200	1128.80
c.	Oxides of Nitrogen (NO _x), mg/Nm ³ (Corrected to 6% O ₂ on dry basis)	IS:11255(P-7)	Max. 450	346.81
d.	Mercury(As Hg),mg/Nm ³	USEPA Method	Max. 0.03	BLQ(LOQ:0.01)
e.	Carbon Monoxide(CO),% v/v	IS:13270	Max. 1.0	0.2
f.	Carbon Dioxide (CO ₂), %	IS:13270	Not Specified	11.6

'#' 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 12.03.2022, Sampling Procedure - SOP/ITC/EW/056, Amendment Reason - Typo Error

REMARKS :N/A

Saurabh Sharma
07-04-2022
Reviewer

07-04-2022
PremKumar
[Authorized Signatory]

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Page 3 of 3

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---	--

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


Saurabh Sharma
07-04-2022
Reviewer


07-04-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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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. :E01-2203140755 Sample Reg. Date :14-03-2022 Report Date :26-03-2022 Report No. :ICE-2203261688 NABL ULR No. :TC592622000005067F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per :	: EPA Act 1986/PCLS/2010
General Information :	
Date of Monitoring	: 12-03-2022
Time of Monitoring	: 15:25 to 15:59 hrs
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 & 380 MTH
(d) Normal operating schedule	: 24 hrs
2. Stack Identification	: Stack attached to Boiler
3.Type of Stack/Duct	: Metal
4.Stack Height from Ground Level(m)	: 275
Diameter of the Stack(cm)	: 750
(6) Sampling Duration(minutes)	: 34
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 :	


Saurabh Sharma
26-03-2022
Reviewer


26-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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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. :E01-2203140755
	Sample Reg. Date :14-03-2022
	Report Date :26-03-2022
	Report No. :ICE-2203261688
	NABL ULR No. :TC592622000005067F
	Customer Ref. No. :PO
	Letter Dated :01.12.2020

Flue Gas Temperature, °C,Avg.	: 126
Flue Gas Velocity(m/s),Avg.	: 22.42
Volumetric Flow Rate(Nm ³ /hr.)	: 2546211.52
Ambient Air Temperature, °C	: 29

S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	General Parameters			
a.	Particulate Matter, mg/Nm ³ (Corrected to 6% O ₂ on dry basis)	IS:11255(P-1)	Max. 50	44.13
b.	Sulphur Dioxide (SO ₂), mg/Nm ³ (Corrected to 6% O ₂ on dry basis)	IS:11255(P-2)	Max. 200	1347.80
c.	Oxides of Nitrogen (NO _x), mg/Nm ³ (Corrected to 6% O ₂ on dry basis)	IS:11255(P-7)	Max. 450	318.03
d.	Mercury(As Hg),mg/Nm ³	USEPA Method	Max. 0.03	BLQ(LOQ:0.01)
e.	Carbon Monoxide(CO),% v/v	IS:13270	Max. 1.0	0.2
f.	Carbon Dioxide (CO ₂), %	IS:13270	Not Specified	11.6

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 12.03.2022, Sampling Procedure - SOP/ITC/EW/056, Amendment Reason - Typo Error

REMARKS :N/A

Saurabh Sharma
26-03-2022
Reviewer

26-03-2022
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. :E01-2203140755 Sample Reg. Date :14-03-2022 Report Date :26-03-2022 Report No. :ICE-2203261688 NABL ULR No. :TC592622000005067F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

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


Saurabh Sharma
26-03-2022
Reviewer


26-03-2022
PremKumar
[Authorized Signatory]

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Annexure-2



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

Annexure- 3

Measures taken to control fugitive emissions

Annexure-3



Dust Extraction System at Crusher House



Dust Extraction System at Bunker

Annexure-3

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-3



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

Annexure-4

Fly Ash Utilization Report

Nabha Power Ltd.				
Fly Ash Utilization Report				
Period	Fly Ash Generation Data (MT)	Fly Ash Utilisation Data (MT)	Total Fly Ash Utilised %	Remarks
FY 2021-22	1955635	1957001	100.07%	

Annexure-5

Heavy Metal Analysis in Fly Ash & Bottom Ash Report

Test Report


Document QF : 2501

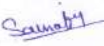
Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2203140752 Sample Reg. Date :14-03-2022 Report Date :19-03-2022 Report No. :ICE-2203191098 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)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	500gm
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in can
m)	Date of Receipt	14-03-2022
n)	Date of Start	14-03-2022
o)	Date of Completion	19-03-2022
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample collected by lab rep. on 11.03.2022
s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA


Saurabh Sharma
19-03-2022
Reviewer


19-03-2022
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. :E01-2203140752 Sample Reg. Date :14-03-2022 Report Date :19-03-2022 Report No. :ICE-2203191098 Customer Ref. No.: PO Letter Dated :01.12.2020
---	---

u)	Supplied By #	NA
----	---------------	----

PART B : SUPPLEMENTARY INFORMATIONS

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

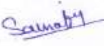
Description				
Description		Bottom Ash		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Pollution & Environment			
1.	Heavy Metals			
a.	Lead as Pb, (mg/kg)	In House		BLQ(LOQ:1.0)
b.	Mercury as Hg (mg/kg)	In House		BLQ(LOQ:1.0)
c.	Arsenic as As, (mg/kg)	In House		BLQ(LOQ:1.0)
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, Purpose - For self Monitoring

REMARKS :N/A

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


Saurabh Sharma
19-03-2022
Reviewer


19-03-2022
PremKumar
[Authorized Signatory]

Disclaimer :

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Test Report


Document QF : 2501

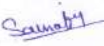
Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2203140751 Sample Reg. Date :14-03-2022 Report Date :19-03-2022 Report No. :ICE-2203191097 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)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	500gm
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in poly pck
m)	Date of Receipt	14-03-2022
n)	Date of Start	14-03-2022
o)	Date of Completion	19-03-2022
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample collected by lab rep. on 11.03.2022
s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA


Saurabh Sharma
19-03-2022
Reviewer


19-03-2022
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. :E01-2203140751 Sample Reg. Date :14-03-2022 Report Date :19-03-2022 Report No. :ICE-2203191097 Customer Ref. No.: PO Letter Dated :01.12.2020
---	---

u)	Supplied By #	NA
----	---------------	----

PART B : SUPPLEMENTARY INFORMATIONS

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

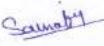
Description				
Description		Fly Ash		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Pollution & Environment			
1.	Heavy Metals			
a.	Lead as Pb, (mg/kg)	In House		5.49
b.	Mercury as Hg (mg/kg)	In House		BLQ(LOQ:1.0)
c.	Arsenic as As, (mg/kg)	In House		5.30
d.	Chromium as Cr (mg/kg)	In House		3.23

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Purpose - For self Monitoring

REMARKS :N/A

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


Saurabh Sharma
19-03-2022
Reviewer


19-03-2022
PremKumar
[Authorized Signatory]

Disclaimer :

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Annexure-6

Treated Sewage Monitoring Results

Test Report


Document QF : 2501

Page 1 of 3

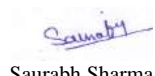
Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2112160686 Sample Reg. Date :16-12-2021 Report Date :24-12-2021 Report No. :ICE-2112241124 NABL ULR No. :TC592621000015434F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

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)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number [#]	NA
h)	D.O.M [#]	NA
i)	Date of Expiry [#]	NA
j)	Sample Quantity [#]	2 Ltr
k)	Batch Size/Location [#]	NA
l)	Mode of Packing	Packed in bottle
m)	Date of Receipt	16-12-2021
n)	Date of Start	16-12-2021
o)	Date of Completion	24-12-2021
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample collected by lab rep. on 15.12.2021
s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By [#]	NA


24-12-2021
Gaurav Khandelwal
[Authorized Signatory]


24-12-2021
Saurabh Sharma
Reviewer


24-12-2021
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. :E01-2112160686 Sample Reg. Date :16-12-2021 Report Date :24-12-2021 Report No. :ICE-2112241124 NABL ULR No. :TC592621000015434F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

u) Supplied By #	NA
------------------	----

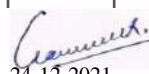
PART B : SUPPLEMENTARY INFORMATIONS

a. Reference to sampling procedure, whenever applicable	: No
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

Description

Description	STP Outlet Water
-------------	------------------

S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Pollution & Environment			
1.	General Parameters			
a.	Colour	IS:3025(Part4):1983(RA:2017)amd. no1	Not Specified	Colourless
b.	Odour	IS:3025(Part 5):1983(RA:2017)	Not Specified	None
c.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-9	7.92
d.	Total Suspended Solids,(mg/l)	IS:3025(Part 17)	Max. 100	10
e.	Chemical Oxygen Demand(mg/l)	APHA-23rd Edition	Not Specified	40
f.	Bio-chemical Oxygen Demand, mg/l (3 days at 27°C)	IS:3025(P-44)	Max. 30	13
g.	Total Nitrogen(as N), mg/L	APHA-23rd Edition	Not Specified	4.8
h.	Total Phosphorous as P (mg/l)	IS 3025 (Part 31)	Not Specified	1.0
	Discipline : Biological			
	Group : Pollution & Environment			
1.	Microbiological Tests			


24-12-2021

Gaurav Khandelwal
[Authorized Signatory]


24-12-2021

Saurabh Sharma
24-12-2021
Reviewer


24-12-2021

Prem Kumar
[Authorized Signatory]

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Interstellar Testing Centre Pvt. Ltd.

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

Panchkula-134109 (Haryana)

Phone : (O) 0172-2561543, 2565825

Email : customersupport@itclabs.com

Visit us :www.itclabs.com

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. :E01-2112160686 Sample Reg. Date :16-12-2021 Report Date :24-12-2021 Report No. :ICE-2112241124 NABL ULR No. :TC592621000015434F Customer Ref. No.: PO Letter Dated :01.12.2020
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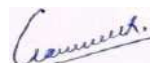
a.	Faecal Coliform, MPN/100ml	APHA-23 rd Edn 17-9221 F	Max. 1000	110
----	----------------------------	--------------------------	-----------	-----

'#' 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

REMARKS :N/A

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



24-12-2021
Gaurav Khandelwal
[Authorized Signatory]



Saurabh Sharma
24-12-2021
Reviewer



24-12-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
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Phone : (O) 0172-2561543, 2565825
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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. :E01-2203140749 Sample Reg. Date :14-03-2022 Report Date :24-03-2022 Report No. :ICE-2203241590 NABL ULR No. :TC592622000004958F 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)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	2 Ltr
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in can
m)	Date of Receipt	14-03-2022
n)	Date of Start	14-03-2022
o)	Date of Completion	24-03-2022
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample collected by lab rep. on 11.03.2022


24-03-2022
Gaurav Khandelwal
[Authorized Signatory]


24-03-2022
Saurabh Sharma
Reviewer


24-03-2022
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. :E01-2203140749 Sample Reg. Date :14-03-2022 Report Date :24-03-2022 Report No. :ICE-2203241590 NABL ULR No. :TC592622000004958F Customer Ref. No.: PO Letter Dated :01.12.2020
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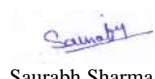
s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA
u)	Supplied By #	NA

PART B : SUPPLEMENTARY INFORMATIONS

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

Description				
Description		STP Outlet Water		
S.No.	Parameters	Method	Specification	Result
Discipline : Chemical				
Group : Pollution & Environment				
1. General Parameters				
a.	Colour	IS:3025(Part4):1983(RA:2017)amd. no1	Not Specified	Colourless
b.	Odour	IS:3025(Part 5):1983(RA:2017)	Not Specified	None
c.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-9	7.31
d.	Total Suspended Solids,(mg/l)	IS:3025(Part 17)	Max. 100	5
e.	Chemical Oxygen Demand(mg/l)	APHA-23rd Edition	Not Specified	16
f.	Bio-chemical Oxygen Demand, mg/l (3 days at 27°C)	IS:3025(P-44)	Max. 30	5


24-03-2022
Gaurav Khandelwal
[Authorized Signatory]


Saurabh Sharma
24-03-2022
Reviewer


24-03-2022
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. :E01-2203140749 Sample Reg. Date :14-03-2022 Report Date :24-03-2022 Report No. :ICE-2203241590 NABL ULR No. :TC592622000004958F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

g.	Total Nitrogen(as N), mg/L	APHA-23rd Edition	Not Specified	BLQ(LOQ:1.0)
h.	Total Phosphorous as P (mg/l)	IS 3025 (Part 31)	Not Specified	BLQ(LOQ:0.1)
	Discipline : Biological			
	Group : Pollution & Environment			
1.	Microbiological Tests			
a.	Faecal Coliform, MPN/100ml	APHA-23 rd Edn 17-9221 F	Max. 1000	920

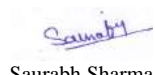
'#' represents Customer Defined Fields

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

REMARKS :N/A

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


24-03-2022
Gaurav Khandelwal
[Authorized Signatory]


Saurabh Sharma
24-03-2022
Reviewer


24-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
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Annexure-7

Ground Water Quality Monitoring Results

GW Report 2021

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

- | | |
|--|--|
| 1. Laboratory Sample No. | GW 1029-1032/ H.O.Lab./ G.W. Monitoring/2021 |
| 2. ULR Number | ULR-TC7045180000000000 4252 |
| 3. Name of Industry | Ground Water Samples taken from
M/s Nabha Power Limited, Vill. Nalas, Rajpura. |
| 4. Name of Sample collecting Officer | Er. Navtesh Singla, Environmental Engineer Er. Amit Kumar, AEE
Dr. Sonam Dogra.SA |
| 5. Designation of authorizing Test | EE. RO. Patiala. |
| 6. Date & Time of Sample collection | 20.12.2021 |
| 7. Date & Time of Sample receipt in Lab. | 21.12.2021 |
| 8. Period of Analysis | 21.12.2021 to 03.1.2022 |
| 9. Test Methods | As per relevant parts of IS:3025 &
Methods of APHA |

ਮ:ਵ:ਦਿ: 1/2/3/S A.

ਨਵੀਂ ਭੋਕ

ਦਿ: 5/1/22

ਡਾਇਰੀ ਨੰ. 3745

5/1/22

Results

Sr. no.	Parameters	Near Coal Handling Plant	Near Storm Water Sump	Along ash dyke	Between Ash dyke and reservior
1	pH	7.6	7.8	7.8	7.7
2	Total Suspended Solids mg/l	BDL	BDL	BDL	BDL
3	Total Dissolved Solids mg/l	267	285	213	251
4	Chemical Oxygen Demand mg/l	BDL	BDL	BDL	BDL
5	Bio-Chemical Oxygen Demand mg/l	BDL	BDL	BDL	BDL
6	Total Hardness mg/l	82	95	67	84
7	Calcium Hardness mg/l	53	63	48	58
8	Magnesium Hardness mg/l	29	32	19	26
9	Total Alkalinity mg/l	177	213	162	192
10	Chloride mg/l	24	29	19	28
11	Sulphate mg/l	13	17	6	12
12	Mercury mg/l	BDL	BDL	BDL	BDL
13	Lead mg/l	BDL	BDL	BDL	BDL
14	Total Chromium mg/l	BDL	BDL	BDL	BDL

Note: BDL means Below Method Detection Limit.

--End of Report--

Endst. No: 117-119

A copy of the above is forwarded to the:-

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

Scientific Officer
31/1/22
Asst. Scientific Officer

Test Report


Document QF : 2501

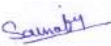
Page 1 of 3


Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2112160687 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221006 NABL ULR No. :TC592621000015319F Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

Test Report as per IS:IS 10500 - 2012	With Amendment No.(s):01 to 03
---------------------------------------	--------------------------------

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	2 Ltr
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in can
m)	Date of Receipt	16-12-2021
n)	Date of Start	16-12-2021
o)	Date of Completion	22-12-2021
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample collected by lab rep. Mr. Vipin on 15.12.2021, Sample from Piezometer No.1
s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA


Saurabh Sharma
22-12-2021
Reviewer


22-12-2021
PremKumar
[Authorized Signatory]

Disclaimer :

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- Total liability of ITC Labs is limited to the invoiced amount.
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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. :E01-2112160687 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221006 NABL ULR No. :TC592621000015319F Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

u) Supplied By #	NA
------------------	----

PART B : SUPPLEMENTARY INFORMATIONS

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

Description					
Description	Clear colorless liquid				
S.No.	Parameters	Method	Acceptable Limit	Permissible Limit	Result
Discipline : Chemical					
Group : Water					
1. Organoleptic & Physical Parameter					
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5	No relaxation	7.84
2. 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.	486
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)		Not Specified	BLQ(LOQ:4.0)
d.	Bio-chemical Oxygen Demand, mg/l (3 days at 27°C)	IS:3025(P-44)		Not Specified	BLQ(LOQ:1.0)
3. Parameters Concerning Undesirable Substances in excess amount					
a.	Total Hardness(as CaCO ₃), (mg/l)	IS 3025 (Part 21)	200 Max.	600 Max.	86.1
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)

Saurabh Sharma
22-12-2021
Reviewer

22-12-2021
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. :E01-2112160687 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221006 NABL ULR No. :TC592621000015319F Customer Ref. No.: PO Letter Dated :09.07.2021
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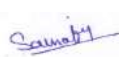
c.	Total Arsenic(as As)(mg/l)	IS:3025(P-65)	0.01 Max.	0.05 Max.	BLQ(LOQ:0.002)
d.	Total Chromium(as Cr)(mg/l)	IS:3025(P-65)	0.05 Max.	No Relaxation	BLQ(LOQ:0.002)

'#' represents Customer Defined Fields

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

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
22-12-2021
Reviewer


22-12-2021
PremKumar
[Authorized Signatory]

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Document QF : 2501

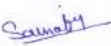
Page 1 of 3


Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2112160688 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221007 NABL ULR No. :TC592621000015322F Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

Test Report as per IS:IS 10500 - 2012	With Amendment No.(s): 01 to 03
--	--

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	2 Ltr
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in can
m)	Date of Receipt	16-12-2021
n)	Date of Start	16-12-2021
o)	Date of Completion	22-12-2021
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample collected by lab rep. Mr. Vipin on 15.12.2021, Sample from Piezometer No.2
s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA


Saurabh Sharma
22-12-2021
Reviewer


22-12-2021
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. :E01-2112160688 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221007 NABL ULR No. :TC592621000015322F Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

u) Supplied By #	NA
------------------	----

PART B : SUPPLEMENTARY INFORMATIONS

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

Description					
Description	Clear colorless liquid				
S.No.	Parameters	Method	Acceptable Limit	Permissible Limit	Result
Discipline : Chemical					
Group : Water					
1. Organoleptic & Physical Parameter					
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5	No relaxation	7.92
2. 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.	489
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)		Not Specified	BLQ(LOQ:4.0)
d.	Bio-chemical Oxygen Demand, mg/l (3 days at 27°C)	IS:3025(P-44)		Not Specified	BLQ(LOQ:1.0)
3. Parameters Concerning Undesirable Substances in excess amount					
a.	Total Hardness(as CaCO ₃), (mg/l)	IS 3025 (Part 21)	200 Max.	600 Max.	91.1
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)

Saurabh Sharma
22-12-2021
Reviewer

22-12-2021
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. :E01-2112160688 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221007 NABL ULR No. :TC592621000015322F Customer Ref. No.: PO Letter Dated :09.07.2021
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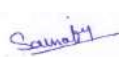
c.	Total Arsenic(as As)(mg/l)	IS:3025(P-65)	0.01 Max.	0.05 Max.	BLQ(LOQ:0.002)
d.	Total Chromium(as Cr)(mg/l)	IS:3025(P-65)	0.05 Max.	No Relaxation	BLQ(LOQ:0.002)


'#' represents Customer Defined Fields

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

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
22-12-2021
Reviewer


22-12-2021
PremKumar
[Authorized Signatory]

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Test Report


Document QF : 2501

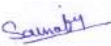
Page 1 of 3


Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2112160689 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221008 NABL ULR No. :TC592621000015320F Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

Test Report as per IS:IS 10500 - 2012	With Amendment No.(s): 01 to 03
--	--

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	2 Ltr
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in bottle
m)	Date of Receipt	16-12-2021
n)	Date of Start	16-12-2021
o)	Date of Completion	22-12-2021
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample collected by lab rep. Mr. Vipin on 15.12.2021, Sample from Piezometer No.3
s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA


Saurabh Sharma
22-12-2021
Reviewer


22-12-2021
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. :E01-2112160689 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221008 NABL ULR No. :TC592621000015320F Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

u) Supplied By #	NA
------------------	----

PART B : SUPPLEMENTARY INFORMATIONS

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

Description					
Description	Clear colorless liquid				
S.No.	Parameters	Method	Acceptable Limit	Permissible Limit	Result
	Discipline : Chemical				
	Group : Water				
1.	Organoleptic & Physical Parameter				
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5	No relaxation	7.90
2.	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.	488
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)		Not Specified	BLQ(LOQ:4.0)
d.	Bio-chemical Oxygen Demand, mg/l (3 days at 27°C)	IS:3025(P-44)		Not Specified	BLQ(LOQ:1.0)
3.	Parameters Concerning Undesirable Substances in excess amount				
a.	Total Hardness(as CaCO ₃), (mg/l)	IS 3025 (Part 21)	200 Max.	600 Max.	85.1
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)

Saurabh Sharma
22-12-2021
Reviewer

22-12-2021
PremKumar
[Authorized Signatory]

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Test Report

Document QF : 2501

Page 3 of 3

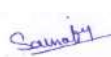
Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura			Sample Reg. No. :E01-2112160689 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221008 NABL ULR No. :TC592621000015320F Customer Ref. No.: PO Letter Dated :09.07.2021		
c.	Total 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

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

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
22-12-2021
Reviewer


22-12-2021
PremKumar
[Authorized Signatory]

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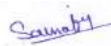
Page 1 of 3


Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2112160690 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221009 NABL ULR No. :TC592621000015321F Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

Test Report as per IS:IS 10500 - 2012	With Amendment No.(s): 01 to 03
--	--

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	2 Ltr
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in can
m)	Date of Receipt	16-12-2021
n)	Date of Start	16-12-2021
o)	Date of Completion	22-12-2021
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample collected by lab rep. Mr. Vipin on 15.12.2021, Sample from Piezometer No.4
s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA


Saurabh Sharma
22-12-2021
Reviewer


22-12-2021
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. :E01-2112160690 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221009 NABL ULR No. :TC592621000015321F Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

u) Supplied By #	NA
------------------	----

PART B : SUPPLEMENTARY INFORMATIONS

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

Description					
Description	Clear colorless liquid				
S.No.	Parameters	Method	Acceptable Limit	Permissible Limit	Result
	Discipline : Chemical				
	Group : Water				
1.	Organoleptic &Physical Parameter				
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5	No relaxation	7.91
2.	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.	491
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)		Not Specified	BLQ(LOQ:4.0)
d.	Bio-chemical Oxygen Demand, mg/l (3 days at 27°C)	IS:3025(P-44)		Not Specified	BLQ(LOQ:1.0)
3.	Parameters Concerning Undesirable Substances in excess amount				
a.	Total Hardness(as CaCO ₃), (mg/l)	IS 3025 (Part 21)	200 Max.	600 Max.	91.1
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)

Saurabh Sharma
22-12-2021
Reviewer

22-12-2021
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. :E01-2112160690 Sample Reg. Date :16-12-2021 Report Date :22-12-2021 Report No. :ICE-2112221009 NABL ULR No. :TC592621000015321F Customer Ref. No.: PO Letter Dated :09.07.2021
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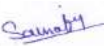
c.	Total Arsenic(as As)(mg/l)	IS:3025(P-65)	0.01 Max.	0.05 Max.	BLQ(LOQ:0.002)
d.	Total Chromium(as Cr)(mg/l)	IS:3025(P-65)	0.05 Max.	No Relaxation	BLQ(LOQ:0.002)

'#' represents Customer Defined Fields

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

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
22-12-2021
Reviewer


22-12-2021
PremKumar
[Authorized Signatory]

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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. : P01-2203120085 Sample Reg. Date :12-03-2022 Report Date :17-03-2022 Customer Ref. No.: PO Letter Dated :09.07.2021
---	---

Test Report as per IS:IS 10500 - 2012	With Amendment No.(s):01 to 03
--	---------------------------------------

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	2 Ltr
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in can
m)	Date of Receipt	12-03-2022
n)	Date of Start	12-03-2022
o)	Date of Completion	17-03-2022
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample Collected by lab rep. Mr. Vipin on 11.03.2022, Sample from Piezometer-1

V Saini
Vikrant
17-03-2022
Reviewer

Prem Kumar
17-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

86, Industrial Area, Phase-I,
Panchkula-134109 (Haryana)
Phone : (O) 0172-2561543, 2565825,
E-mail : customersupport@itclabs.com
Visit us: www.itclabs.com

Disclaimer:

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4. If samples not consumed during analysis, it will be stored & retain as per company policy.
5. Samples not drawn by us unless otherwise stated.
6. Test report in full or parts shall not be used for promotional or publicity purposes.
7. Legal disputes are subjected to Panchkula Jurisdiction only.

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. : P01-2203120085 Sample Reg. Date : 12-03-2022 Report Date : 17-03-2022 Customer Ref. No.: PO Letter Dated : 09.07.2021
---	--

s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA
u)	Supplied By #	NA

PART B : SUPPLEMENTARY INFORMATIONS

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

Description

Description		Colourless Liquid			
S.No.	Parameters	Method	Acceptable Limit	Permissible Limit	Result
	Discipline : Chemical				
	Group : Water				
1.	Organoleptic &Physical Parameter				
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5	No relaxation	7.89
2.	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.	486
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)		Not Specified	BLQ(LOQ:4.0)
d.	Bio-chemical Oxygen Demand, mg/l (3 days at 27°C)	IS:3025(P-44)		Not Specified	BLQ(LOQ:1.0)

V. Saini
Vikrant
17-03-2022
Reviewer

17-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

86, Industrial Area, Phase-I,
Panchkula-134109 (Haryana)
Phone : (O) 0172-2561543, 2565825,
E-mail : customersupport@itclabs.com
Visit us: www.itclabs.com

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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. : P01-2203120085 Sample Reg. Date : 12-03-2022 Report Date : 17-03-2022 Customer Ref. No.: PO Letter Dated : 09.07.2021
---	--

3.	Parameters Concerning Undesirable Substances in excess amount				
a.	Total Hardness(as CaCO ₃), (mg/l)	IS 3025 (Part 21)	200 Max.	600 Max.	92
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

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

REMARKS : N/A

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

V. Saini
Vikrant
17-03-2022
Reviewer

Prem Kumar
17-03-2022
Prem Kumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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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. : P01-2203120086 Sample Reg. Date : 12-03-2022 Report Date : 17-03-2022 Customer Ref. No.: PO Letter Dated : 09.07.2021
---	--

Test Report as per IS:IS 10500 - 2012

With Amendment No.(s):01 to 03

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	2 Ltr
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in can
m)	Date of Receipt	12-03-2022
n)	Date of Start	12-03-2022
o)	Date of Completion	17-03-2022
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample Collected by lab rep. Mr. Vipin on 11.03.2022, Sample from Piezometer-2

V. Saini
Vikrant
17-03-2022
Reviewer

17-03-2022
Prem Kumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

86, Industrial Area, Phase-I,
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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. : P01-2203120086 Sample Reg. Date : 12-03-2022 Report Date : 17-03-2022 Customer Ref. No. : PO Letter Dated : 09.07.2021
---	---

s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA
u)	Supplied By #	NA

PART B : SUPPLEMENTARY INFORMATIONS

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

Description					
Description		Colourless Liquid			
S.No.	Parameters	Method	Acceptable Limit	Permissible Limit	Result
	Discipline : Chemical				
	Group : Water				
1.	Organoleptic & Physical Parameter				
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	6.5-8.5	No relaxation	7.94
2.	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.	492
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)		Not Specified	BLQ(LOQ:4.0)
d.	Bio-chemical Oxygen Demand, mg/l (3 days at 27°C)	IS:3025(P-44)		Not Specified	BLQ(LOQ:1.0)

V. Saini

Vikrant
17-03-2022
Reviewer

PremKumar

17-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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Test Report

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Page 3 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :P01-2203120086 Sample Reg. Date :12-03-2022 Report Date :17-03-2022 Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

3. Parameters Concerning Undesirable Substances in excess amount					
a.	Total Hardness(as CaCO ₃), (mg/l)	IS 3025 (Part 21)	200 Max.	600 Max.	76
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

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

REMARKS :N/A

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

V. Saini
Vikrant
17-03-2022
Reviewer

Prem Kumar
17-03-2022
Prem Kumar
[Authorized Signatory]

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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. : P01-2203120087 Sample Reg. Date : 12-03-2022 Report Date : 17-03-2022 Customer Ref. No.: PO Letter Dated : 09.07.2021
--	--

Test Report as per IS:IS 10500 - 2012	With Amendment No.(s): 01 to 03
--	--

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values, if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	2 Ltr
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in can
m)	Date of Receipt	12-03-2022
n)	Date of Start	12-03-2022
o)	Date of Completion	17-03-2022
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample Collected by lab rep. Mr. Vipin on 11.03.2022, Sample from Piezometer-3

V. Saini
Vikrant
17-03-2022
Reviewer

Prem Kumar
17-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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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. : P01-2203120087 Sample Reg. Date : 12-03-2022 Report Date : 17-03-2022 Customer Ref. No.: PO Letter Dated : 09.07.2021
---	--

s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA
u)	Supplied By #	NA

PART B : SUPPLEMENTARY INFORMATIONS

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

Description

Description		Colourless Liquid			
S.No.	Parameters	Method	Acceptable Limit	Permissible Limit	Result
	Discipline : Chemical				
	Group : Water				
1.	Organoleptic &Physical Parameter				
a.	pH Value	IS:3025 (Part - 11):1983(RA,2017)	6.5-8.5	No relaxation	7.96
2.	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.	490
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)		Not Specified	BLQ(LOQ:4.0)
d.	Bio-chemical Oxygen Demand, mg/l (3 days at 27°C)	IS:3025(P-44)		Not Specified	BLQ(LOQ:1.0)

V. Saini
Vikrant
17-03-2022
Reviewer

17-03-2022
Prem Kumar
[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. : P01-2203120087 Sample Reg. Date : 12-03-2022 Report Date : 17-03-2022 Customer Ref. No.: PO Letter Dated : 09.07.2021
---	--

3.	Parameters Concerning Undesirable Substances in excess amount				
a.	Total Hardness(as CaCO ₃), (mg/l)	IS 3025 (Part 21)	200 Max.	600 Max.	74
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

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

REMARKS : N/A

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

V. Saini
Vikrant
17-03-2022
Reviewer

17-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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Test Report


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Page 1 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. : P01-2203120088 Sample Reg. Date : 12-03-2022 Report Date : 17-03-2022 Customer Ref. No.: PO Letter Dated : 09.07.2021
---	--

Test Report as per IS:IS 10500 - 2012	With Amendment No.(s): 01 to 03
--	--

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Ground Water (Piezometer)
b)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values, if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	2 Ltr
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in can
m)	Date of Receipt	12-03-2022
n)	Date of Start	12-03-2022
o)	Date of Completion	17-03-2022
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample Collected by lab rep. Mr. Vipin on 11.03.2022, Sample from Piezometer-4

V. Saini
Vikrant
17-03-2022
Reviewer

17-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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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. : P01-2203120088 Sample Reg. Date : 12-03-2022 Report Date : 17-03-2022 Customer Ref. No.: PO Letter Dated : 09.07.2021
---	--

s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA
u)	Supplied By #	NA

PART B : SUPPLIMENTARY INFORMATIONS

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

Description					
Description		Colourless Liquid			
S.No.	Parameters	Method	Acceptable Limit	Permissible Limit	Result
	Discipline : Chemical				
	Group : Water				
1.	Organoleptic & Physical Parameter				
a.	pH Value	IS:3025 (Part-11):1983(RA:2017)	6.5-8.5	No relaxation	7.92
2.	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.	496
c.	Chemical Oxygen Demand(mg/l)	IS: 3025(Part-58)		Not Specified	BLQ(LOQ:4.0)
d.	Bio-chemical Oxygen Demand, mg/l (3 days at 27°C)	IS:3025(P-44)		Not Specified	BLQ(LOQ:1.0)

V. Saini
Vikrant
17-03-2022
Reviewer

17-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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---	--

3.	Parameters Concerning Undesirable Substances in excess amount				
a.	Total Hardness(as CaCO ₃), (mg/l)	IS 3025 (Part 21)	200 Max.	600 Max.	94
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

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

REMARKS : N/A

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

V. Saini
Vikrant
17-03-2022
Reviewer

17-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

86, Industrial Area, Phase-I,
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Annexure-8

Green Belt Photographs

Annexure-8

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



Pic-1 Green belt around coal stockpile area



Pic-2 Green belt around plant premises



Pic-3 Green belt along boundary



Pic-4 Green belt on both sides of road



Pic-5 Green belt area railway siding

Annexure-9

CSR Activity Photographs

Photographs of CSR Projects October 2021 – March 2022



Cancer Screening and Health Camp

- Benefitted 600 patients from nearly 10 villages
- 178 Oral Screening (2 finding)
- 89 Diabetic detected
- 119 Hypertensive detected
- 10 Suspected cases of cancer advised for advanced screening



Mr S K Narang, CE-NPL at camp site (Mobile Mammography Unit)



Patients queuing up for registration for checkups at the camp site

Medical Camps



- 3 Camps in three villages
- Over 150 people benefitted

Rural Development - Key Focus Areas



EWS Housing



Construction of village Roads



Construction of Community Shed



Development of Low-lying Areas



EWS Housing

8 Nos of EWS
Houses



36 Family Members
benefitted



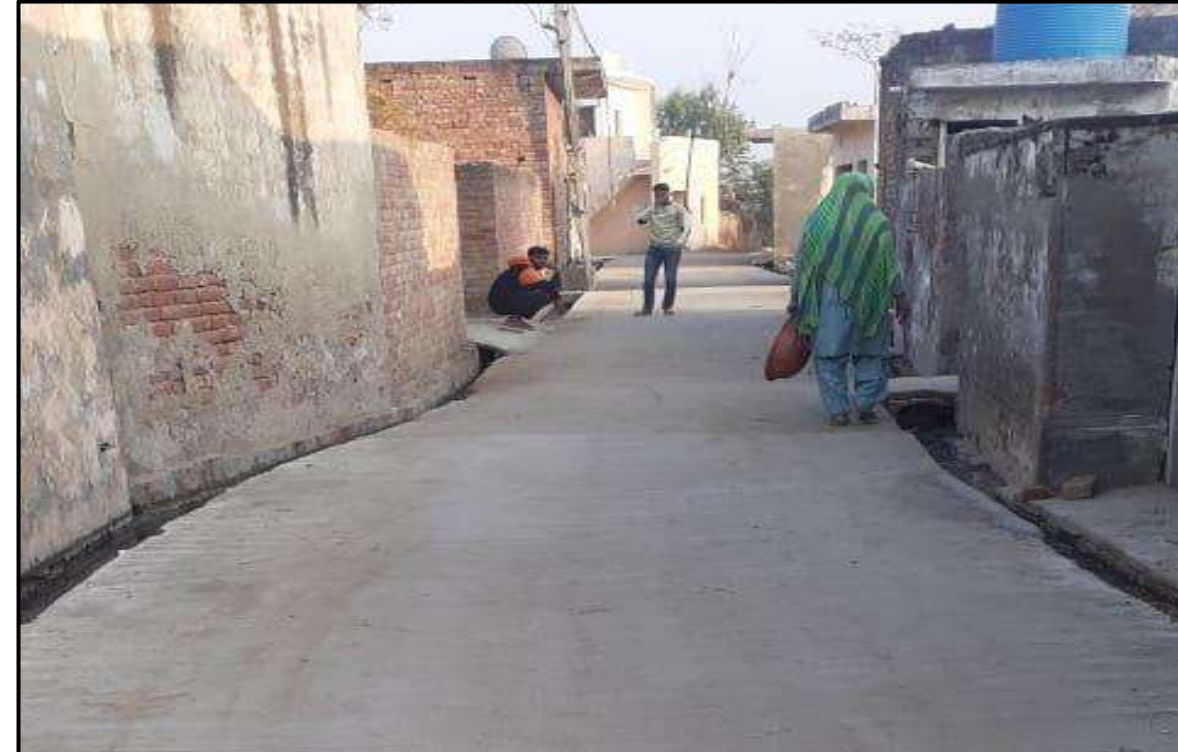
Each house has a
Bedroom, Toilet and
Kitchen



Rural Roads



Construction of concrete roads in 7 villages ;
total length 1.05 Km



Benefitted 500 villagers

Rural Roads

Bakhshiwala



Before



After

Badali Mai Ki



Before



After

Community Shed



Community shed at village Akbarpur; Total covered area 2400 sq.ft.; 100 poor families to be benefitted

Water & Sanitation - Redevelopment of Ponds

Pond rejuvenation work at village Urna

Initial Phase



Current status



Production Centers

**5 Production centres,
5 Villages (2 New centres)**

Products made :
Jute, Phulkaari, Apparels, School
Dresses, Masks

Impacting 60
underprivileged Women



REDMI NOTE 9 PRO MAX
AI QUAD CAMERA

Skill Training Centers

Beautician centres

2 Centres, 2 Villages

Impacted 72 Women



Stitching Training centres

4 Centres, 4 villages

Impacted 91 Women



Skills Training – ITI Rajpura

36 student from 28 Villages were enrolled



Skill Training for Girls - NSIC Rajpura

**NPL Mobilized
100 youth
from 5 villages
for NSIC
courses**

Courses offered
Computer
based
accounting,
Sewing
Machine
Operator and
AutoCAD

Impact
72 girls
45 girls trained
27 girls
undergoing
training



Education - Learning Enrichment Program



10 Govt.
Elementary
Schools

11 Teachers

Teaching Math
and English

**Benefitting
420 Students
from 10
villages**



Thank you

**IMPACT ASSESMENT STUDY OF
CORPORATE SOCIAL RESPONSIBILITY INITIATIVES
(2020-2021)
OF NABHA POWER LIMITED (PUNJAB)**



Submitted

By

GRAMEEN

Centre for Sustainable Development

3308; Sargodha Housing Society, Sector 50 D, Chandigarh

TABLE OF CONTENT

Sr. No	Title	Page No.
	<i>Acknowledgment</i>	1
	Executive Summary	2
Chapter 1	Background of Social Audit	3
	Objectives	4
	Study process	4
	Sources of data	4
	Sample Size	4
	Significance of the Study	5
	Limitations of the study	5
Chapter 2	NPL'S CSR Initiatives – An Overview	6
Chapter 3	Findings	12
	Age-wise division of respondents	12
	Gender representation:	12
	Social group representation:	13
	Family pattern	13
Chapter 4	Project— Rural development	15
Chapter 5	Project- Water and Sanitation	20
Chapter 6	Project-Education	27
	Anganwadi	29
Chapter 7	Project-Skill Development	32
Chapter 8	Project Self Help Group	37
	Media Coverage	40
	Suggestions and Recommendations	41

LIST OF TABLE

Table No.	Title	Page No.
1	Initiatives & Project villages of NPL CSR projects from 2020-21	11
2	Infrastructure Development at Villages levels by NPL-CSR	15
3	Number of Beneficiaries trained under skill development programme by NPL-CSR	33

LIST OF BAR CHART

Bar Chart No.	Title	Page No.
1	Age wise data of respondents	12
2	Percentage Gender of respondents	13
3	Percentage of social group representation	13
4	Percentage of family pattern	14
5	Type of Changes after the construction by NPL-CSR	18
6	Water conservation	20
7	Water quality post pond cleaning	21
8	Pond Renovation	21
9	Community Consultation	22
10	Usage of pond water	22
11	Percentage of HH uses pond water	23
12	Pond Maintenance	24
13	Requirement of drainage system	24

Bar Chart No.	Title	Page No.
14	Drainage system functionality	24
15	Agency responsible for cleaning	25
16	Sustainable cleaning system	25
17	Staff consultation for renovation	27
18	Maintenance of school	28
19	Learning enrich programme	28
21	Consultation with stakeholders	30
22	Maintenance of AWW	31
23	Grading of the Skill development programme	34
24	Guidance provided by NPL-CSR	36

LIST OF PIE CHART

Pie Chart No.	Title	Page No.
1	Gram Panchayat Consulted by NPL-CSR Team	17
2	Changes seen after development	18
3	Grade the utility of the infrastructure	19
4	Benefits of Skill Development Project	34
5	Benefits of the programme	35
6	NPL is helping/guiding you for job/income generation after completion of training	35

ACKNOWLEDGEMENT

This report is an outcome of the Impact Assessment undertaken by Grameen; Centre for Sustainable Development. The study was undertaken in peripheral villages of the NPL plant where CSR projects are executed and was undertaken with full cooperation and support from the NPL officials in their CSR office.

We would like to express our heartfelt gratitude to NPL and all of its officials who were participated in the study at various levels, as well as for their insightful inputs on NPL's CSR programmes.

The support extended by Mr. Gagan Bajwa, Mr. Manpreet Singh, Mr. Lalit Kumar, and Mr. Nitin Pandey was appreciated. Above all, special thanks to Mr. Jaskaran Singh (Head CSR) for cooperating throughout the study and ensuring that the study sails smoothly. His support is deeply appreciated. He will always be admired for his dedicated work and immense intellectual knowledge of CSR. Therefore, we acknowledge the partnership with NPL, and hope there will be many more upcoming CSR projects.

We like to express our gratitude to all of the stakeholders who contributed their time and effort to the research and provided unwavering support to ensure that it carried out well. Without the respondents, who were always eager to help, it would not have been possible to do credit to this study and complete it effectively. Their contributions have greatly enhanced the research.

Sincere thanks to the Grameen team for successfully conducting the impact assessment of the projects within the given timeframe.

Grameen

EXECUTIVE SUMMARY

The present evaluation study is an attempt to analyze the implementation of the CSR initiatives taken up by NPL. The five initiatives as described by the NPL are successfully completed. The main objectives of the impact assessment study were to:

1. To analyse the impact of the activities implemented by NPL at the individual and village level.
2. To examine the participation of the community in CSR programmes
3. To highlight best practices, strategies, and initiatives adopted in the project.
4. To give suggestions and recommendations for improving the CSR activities of the NPL

The study is based both on the primary and secondary data obtained from the selected geographical areas where the CSR initiatives were taken up the company.

As discussed in detail in the Methodology chapter, secondary data from the village level besides the primary data from the beneficiaries are obtained from the structured schedules forms the basis for the present findings of the study.

The analysis of the implementation of the impact assessment study in the selected areas dealt in detail indicates that the overall social development of the villagers is positively associated with the infrastructure provided by the company. Infrastructural facilities in respect of Construction of road , EWS housing, community shed and the creation of other facilities for the school and women empowerment are found to be playing an important role and they are essential for enhancing the level of development in different areas.

However, a certain amount of disparity cannot be ruled out in the level of development among different projects. In order to lessen the disparities in development among different projects, model projects need to be identified and potential targets of developmental indicators need to be assessed for low developed areas. Areas like health, welfare schemes require improvements of various dimensions in different indicators for enhancing the level of development.

CHAPTER 1

BACKGROUND

Promoting and enabling responsible business conduct (RBC) should be of central interest to policy-makers wishing to attract and keep investment and ensure that business activity contributes to broader value creation and sustainable development. RBC expectations are prevalent throughout global value chains and refer to the expectation that all businesses – regardless of their legal status, size, ownership structure or sector – avoid and address negative consequences of their operations, while contributing to sustainable development where they operate. RBC is an entry point for any company that wishes to contribute to the Sustainable Development Goals (SDGs) or to achieve specific economic and sustainability outcomes. The term corporate social responsibility (CSR) has historically been used to describe business interactions with society. Now it is time, CSR should be used alongside RBC and business and human rights, i.e. highlighting environmental and social issues are not an add-on, but rather a core issue, to business operations. These concepts should not be understood to be equivalent to philanthropy.

Despite its antiquity, the idea of corporate social responsibility (CSR) has a variety of definitions depending on how it is interpreted. "Corporate Social Responsibility implies something, but not always the same thing to everyone," noted Votaw 40 years ago. CSR is the integration of community social, environmental, and other issues into a company's commercial activities, despite the fact that it is a subjectively perceived concept.

The role of businesses in social welfare has seen a major shift over the years. It has changed its trajectory from philanthropy to go in the direction of coming up with long-standing sustainable projects with a predetermined goal. CSR has evolved from an ethical-philosophical notion to an action-oriented managerial concept of social responsiveness, according to Frederick, as quoted in Garriga & Mele. This means that it now requires a grasp of the interplay between business and society, as well as an understanding of company's duty to society and, lastly, relationship-building.

The Companies Act, 2013 mandated companies to undertake the programmes in a project mode under its approved CSR policy. Social Audit has become even more prominent to track and report the progress. Therefore, every corporate company has to evolve mechanisms to track and report the progress of social development programmes mentioned under Schedule VII of the Act.

In the context of the Act, Social Audit is a tool through which companies can plan, manage and measure CSR sponsored social development projects. It also aids in the monitoring of the planned and unexpected repercussions of social development initiatives on society as a whole and the community in question in particular. Financial audits aimed at verifying the

dependability and integrity of financial data may be included in social audits conducted by businesses.

It is now widely acknowledged that corporate social responsibility is not a one-time, sporadic altruistic effort. Rather, it is tightly integrated and linked with the firms' commercial goals, plans, and activities. The social and commercial objectives of corporations are closely linked (Guidelines on Corporate Social Responsibility and Sustainability for Central Public Sector Enterprises, 2013).

Therefore, the scope of the present study in terms of the sectors, target groups as well as geographical coverage is wide. Keeping the framework of social audit in mind, the structure of this study is framed for two-way assessment and analysis, that is, providing a general, comprehensive understanding of the NPL project and its CSR initiatives and obtaining feedback from CSR beneficiaries based upon specific objectives using both quantitative as well as qualitative parameters of the social audit.

Objectives

To access the type and field of CSR activities initiated by NPL

1. To analyse the impact of the activities implemented by NPL at the individual and village level.
2. To examine the participation of the community in CSR programmes
3. To highlight best practices, strategies, and initiatives adopted in the project.
4. To give suggestions and recommendations for improving the CSR activities of the NPL

Study process

1. Field research techniques, instruments, and reporting formats were all covered during the study teams' orientation and training.
2. Focus group discussions, interviews, case studies, and secondary data from existing records were used to collect primary data from beneficiaries and stakeholders in each community.
3. Verification of social accounts through social audit panels

Sources of data

The primary data source includes responses from the beneficiaries and agencies using quantitative and qualitative methods. The secondary data has been collected through reports, documents, and literature from partner agencies and the government

Sample Size

Purposive sample was used as the sampling design since the evaluation's focus was on NPL's CSR efforts.

Being a social audit study and given the nature of the projects, the researchers used methods of Formal Discussions and Site Visits for getting a real-time picture and multi-stakeholder views. At every project site location, multiple stakeholders like company officials, implementing agency in charge, and beneficiaries were involved to get the technical and social aspects of the project from the proposing, implementing, and benefactor agencies. Information was also collected from government officials and civil society members.

Primary data was collected through conversations, while secondary data was gathered through verification of documents and related literature. It explained if the firm has the necessary documents, whether there are plans or government orders to carry out the project, whether there is a monitoring mechanism in place, and whether the project's reasoning is clear and the expected impact is being realised. This reflects the company's commitment to the project and ownership of it.

As per the literature review, the implementation agency has worked in 49 villages in the District Patiala, Punjab, of which 25 villages are part of various projects. Thus, the 25 villages were chosen for the study. Before this, the evaluation team conducted a pilot study to test the sample questionnaires in the project area. For the collection of primary data, the study considered around 10 to 15 beneficiaries from each of the selected villages in the area and thus a total of 334 beneficiaries were covered under the different themes of the projects (Infrastructure, Education, Skill development, Welfare schemes). The samples have due representation from all the project areas for which a simple random method has been followed. Besides adequate qualitative sample administered, focused on different stakeholders, theme areas and Focus Group Discussions (FGD) were held. Enumeration of data has been done through scheduled questionnaires and separate checklists were also used to get information from the Sarpanch/Ward Members, Head Masters / Tutors. The study methodology, sample size and data collection tools were finalized mutually with the officials of NPL.

Significance of the Study

The present study aims to find out the impact of the programmes on the beneficiaries lives through CSR interventions of NPL. The study will help the company to understand the strengths and weaknesses of the projects.

Limitations of the study

There were some projects where the researchers did not get to meet the beneficiaries, which posed as a limitation. Conducting in-depth interviews with children under the age of 10 was a challenge as they were not able to give details or effective feedback about the programmes. In some of the locations, concerned NPL personnel and implementing partners were not available. That acted as a restriction to data collection.

CHAPTER 2

NPL'S CSR INITIATIVES – AN OVERVIEW

About NPL

Nabha Power Limited (NPL), a wholly-owned subsidiary of L & T Power Development Limited, has set up a 2 X 700 MW power project near Village Nalash, Rajpura district, Patiala. Nabha Power Ltd.-Nabha Power Limited (NPL), was established as a 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.

NPL & CSR

The Company recognises its responsibility to its stakeholders, particularly society at large, and has undertaken a number of initiatives to repay society. The Company has constituted a CSR committee, currently comprising Mr. Y.V.S. Sravankumar, Mr. Pradeep Singh, and Ms. Vijaya Sampath as the members. The company has formulated a CSR policy.

The company is required to spend in every financial year, at least 2% of the average net profits made during the three immediately preceding financial years on its CSR activities as per the provision of the Companies Act, 2013.

A brief outline of the company's CSR policy, including an overview of projects or programmes proposed to be undertaken. The Company's CSR Policy framework details the mechanisms for undertaking various programmes in accordance with Section 135 of the Companies Act 2013 for the benefit of the community. The company has focused on the following thematic areas as a part of its CSR Programme:

THEMATIC FOCUS AREAS



a) Rural Development –

Various studies demonstrate that improving rural electricity, irrigation, water, sanitation, and road infrastructure may boost production, savings, income, and tourism, as well as improve rural people's jobs and health. As a result, improved infrastructure

has the potential to boost the rural community's overall growth as well as the country's economy. NPL recognizes the need to support the government system for affordable and effective rural infrastructure for the rural population. For this, the company has identified and undertaken different initiatives in consultation with the government department of district Patiala focusing on rural infrastructure development. Under rural infrastructure development vertical, NPL builds & Up-grade Village Infrastructure by building Roads, Community Centres, Dharamshalas, Training Centres, Culverts, Drains, Pathways, Toilets, Cremation Grounds etc.

As per the CSR policy, it may include but not be limited to construction and renovation of roads, pathways, drains, toilets, water tanks, community centres, health centres, skill training centres, sports and other infrastructure in the surrounding villages.

NPL recognised the need to support the government system of villages through affordable and effective rural infrastructure development for the rural population. The company has identified and undertaken different initiatives in consultation with the government department of district Patiala, rather than writing village panchayats to develop infrastructure in rural areas. Under the rural infrastructure development vertical, NPL builds and upgrades village infrastructure by building roads, community centres, Dharamshalas, training centres, culverts, drains, pathways, toilets, cremation grounds, etc.

b) Water & Sanitation –

Water resource management and access to safe water and sanitation are critical for unlocking economic development and productivity, as well as providing substantial leverage for current health and education expenditures. Water scarcity threatens food security and rural farmer earnings, whereas improved water management makes national economy, agricultural, and food sectors more robust to rainfall unpredictability and better equipped to fulfil the demands of an expanding population. Water purification and water quality requirements can be ensured by protecting and restoring water-related ecosystems and biodiversity. According to policy, this sector may include, but it is not limited to, assistance for programmes that provide clean drinking water, rainwater collecting, irrigation facilitation, water conservation, and purification.

- Pond

c) Education & Sports –

Education is a potent instrument for enhancing societal resilience. Formal and informal education, as well as public awareness and training, are essential for encouraging sustainable development and strengthening people's and countries' capacity to solve environmental and development challenges, as well as to generate green and decent employment and industries. CSR policy has covered a vast canvas on education and is not limited to, the construction and restoration of schools, libraries, science labs, and educational infrastructure, as well as assistance for educational institutions, educational programmes, and talent nurturing at various levels.

NPL seeks to offer a positive learning environment for every child. The education intervention ensures that the required infrastructure is available and that it is used to its full potential in order to create a productive learning environment. To meet this demand, NPL improves the fundamental infrastructure of educational institutions, schools, and anganwaris by creating new classrooms, libraries, and renovating old school buildings, among other things. Basic facilities such as desks, cutlery, food grain containers, drinking water, and submersible pump sets are also provided by NPL.

- Enrich learning programme
- Infrastructure Support
- Anganwadi centre

d) Health & Environment –

Human health, which is defined as a full condition of physical, social, and mental well-being rather than just the absence of illness, disease, or infirmity, is just as important as water, food, and energy.

CSR policies has vast area of intervention and not limited to the assistance for community health centres, mobile medical vans, dialysis centres, general and specialised health camps and outreach programmes, centres for the elderly and disabled, and support for HIV/AIDS programmes but can also explore the interplay between health and environment.

e) Skill Development –

Skill development is characterized by the accumulation or development of proficiency via education or experience. It improves people's capacity to adapt to shifting market needs and profit from them. CSR policy has included, but is not limited to, vocational training, skill building, computer training, women empowerment, support for ITI and CSTI, support for specially-able people, infrastructure support, providing employability skills at project sites, and creating training centres, according to CSR policy. The key drivers in all of these areas would be governance and technology.

Through skill training centres in the neighbouring communities, NPL provides skills training to women every year. These facilities have appropriate equipments for sewing / embroidery and furniture, as well as experienced teachers. The operational costs of these centres are covered by NPL. Students are encouraged to participate in income generation activities. Impoverished sections are given sewing machines to assist them generate income from home and contribute to the family's monthly wage.

The NPL CSR programme has given these women a voice in decision-making and empowered them to be change agents in their own communities. Self-help organisations were formed, assisting many women in gaining financial independence.

- Self help group programme
- Skill training centres
- Income generation activity centre

Nabha Power Limited has developed multiple welfare programs/schemes to help communities in 43 villages within a 5-kilometer radius of the power plant since its inception. Through numerous CSR activities, NPL contributes to the community's socioeconomic growth. According to NPL's CSR policy, the company is responsible for developing social welfare programmes for the residents of these villages in collaboration with Panchayat Representatives, concerned government departments/officials, and other community stakeholders (school teachers, Aganwari Workers, Health Workers, Youth Clubs, and so on) to ensure that everyone benefits from the initiative. Since its start, NPL has committed time, money, and experienced people in its CSR programme to ensure quality intervention.

Thematic areas and projects have been identified and executed in close partnership with various stakeholders, including district government authorities, to maximise the impact and

maintain transparency. Frequent and open dialogue with stakeholders has assisted the company in meeting its business and societal goals. While the intermittent internal and external audits and monitoring visits to project sites have helped capture the project's progress and provide feedback from the beneficiaries for further improvement, The company has invested considerable time and resources in community development devotedly in a planned and sustained manner year-on-year through community development programmes towards its vision of sustainable development of communities in and around its operations by enabling and partnering for optimum growth. Short duration-one time activities have been replaced by long term sustainable projects in alignment with schedule VII, section 135 of the Companies Act, 2013 and Sustainable Development Goals indicating a planned approach for community development. Social development partners of the company include- local governments and academic institutions to help ensure that the programs benefit as many people as possible in the best way possible. Partnerships and support to the government have helped strengthen ongoing social programs and ensured long-term sustainability.

The company is committed to making targeted investments in the community until the torchbearers' capacities are fully developed and ready to take up the baton of growth from the former. NPL sets a great focus on establishing a participatory approach, building community institutions, encouraging self-sufficiency, and preserving the cultural traditions of its operations regions in Patiala district. To allow stakeholders to choose the scope of programme activities, their timing, speed, and sequencing, CSR efforts use a flexible, non-perspective, process-oriented approach. The programme has been delivered through abovementioned thematic areas.. Villages covered under different projects are shown in Table No 1.

Table No.-1: Initiatives & Project villages of NPL CSR projects from 2020-21

Category
ise
table as
per
policy

S. No	Villages	Education	Livelihood & Income Generation	Skill Development	Welfare Scheme	Water & sanitation	Rural Development
1	Uppal Heri	✓	✓	✓	✓		
2	Salempur					✓	✓
3	Kharola	✓		✓			✓
4	Jansua	✓		✓			✓
5	Sarai Banjara	✓		✓			
6	Dadu Mazra	✓		✓			✓
7	Kotla	✓		✓			✓
8	Sindhra	✓		✓			
9	Chandu Mazra	✓					✓
10	Bhappal	✓			✓		✓
11	Sadhror			✓	✓		✓
12	Nalash Kalan						✓
13	Nalash Khurd	✓		✓			
14	Naina				✓		✓
15	Basantpura	✓		✓	✓		
16	Ugani	✓					✓
17	Choti Kheri						✓
18	Sural Kalan	✓		✓	✓		
19	Mirzapur	✓		✓	✓		✓
20	Urna			✓	✓		✓
21	Gurditpura			✓			✓
22	Niamatpur			✓			✓
23	Akbarpur	✓					✓
24	Kehargarh						✓
25	Bakshiwal	✓		✓	✓		

CHAPTER 3

FIELD AND SECONDARY DATA INTERPRETATIONS

Findings

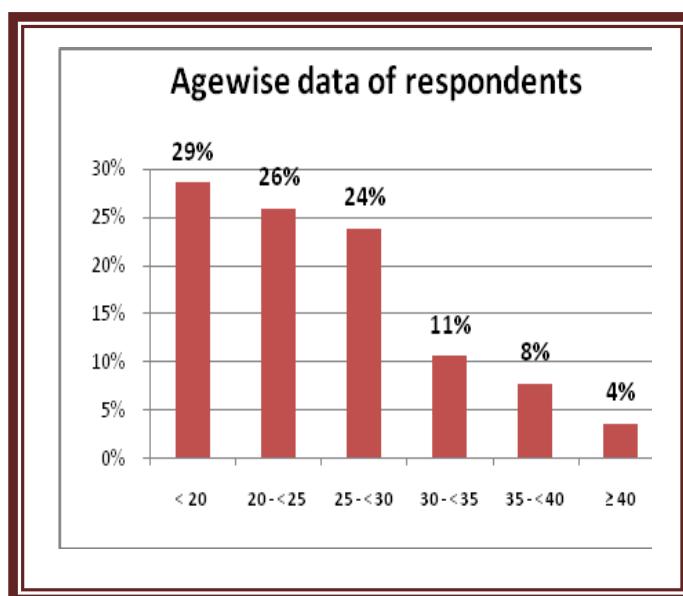
Demographic and Socioeconomic profiling of the respondents:

An important component of a social evaluation is a social and economic profile. Planning personnel, social scientists, and others apply a social and economic evaluation or profile to guide planning operations and project-level work.

This research also aids in identifying and comprehending the necessity for its fulfilment. With this in mind, it is planned to analyse socio-economic data to offer an unbiased assessment of the developmental programmes undertaken by NPL's CSR department.

Age-wise division of respondents:

There were a total of 340 respondents that took part in this survey. It is absolutely intended to assure beneficiary involvement as responders in order to obtain accurate programme feedback. It was hoped to stimulate comments from individuals of all ages while emphasising the importance of the recipients. The data of the respondents is displayed in a graphical format based on their age. This demonstrates that people directly associated with various programmes have been given priority in the evaluation. Around 78 percent of those who responded are between the ages of 20 and 30 years old.



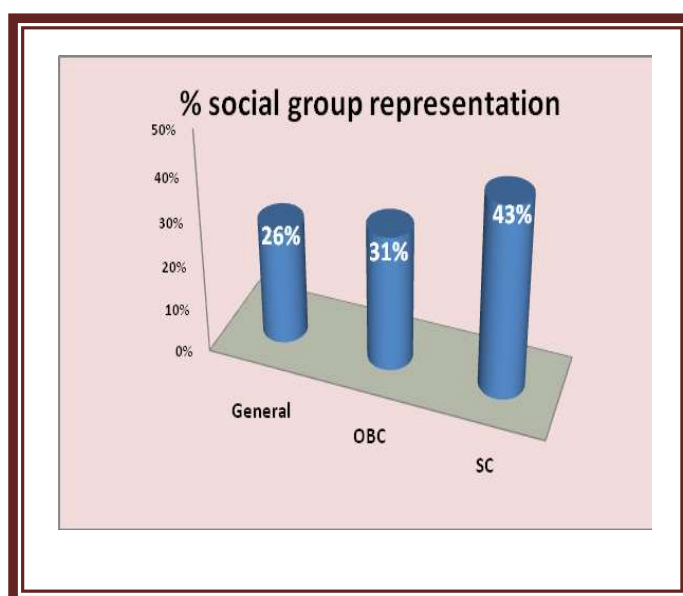
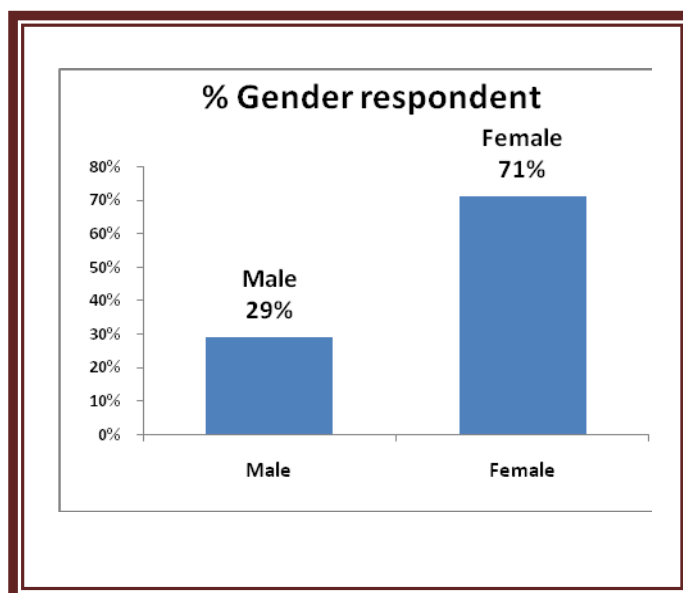
Gender representation:

The society is primarily divided into three genders: male, female, and transgender. Gender is frequently used as a biological depiction of humans. Gender may also be described as socially created standards and beliefs that influence men and women's behaviour. Understanding gender relations and the power dynamics that underpin them is necessary for understanding people's access to and distribution of resources, as well as their decision-making abilities. In each community development initiative, gender plays an essential role.

NPL has prioritised women's empowerment via skill development and income-generating activities; as a result, more feedback has been gathered from women (71%) who are active in all aspects of social development, whether in the home or in the community.

Social group representation:

People in need are cared for and by social groups. People have been classified into different categories based on their caste and class in society. In society, these groups play a mutually beneficial function. There are different social groups which are representing the community and each group represents the priority issues important for their social group. Therefore, during the survey, it is ensured the representation of all social groups. There are 3 major social groups available in the community and priority has been given to the socially challenged groups. As seen in the data major share of the respondent is from scheduled caste and Oppressed backward caste. This will provide feedback to ensure the reach of the programme among the marginalised community.

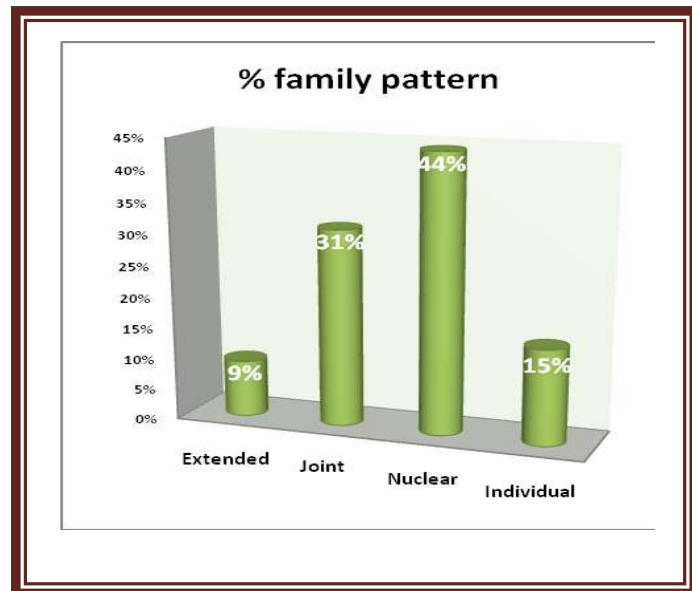


Family pattern:

The family is an intimate domestic group made up of people related to one another by bonds of blood, conjugal or legal ties. It is the smallest and most basic social unit, which is also the most important primary group found in any society. It is the most elementary group. The family pattern defines the social bonding of the particular community. This graph represents

the respondents belong to which type of family and give an overview of the family pattern of the community where interventions are put into operation

All of the respondents had their own homes, with about 80% having two to five rooms and roughly 20% having more than five rooms. Almost every household has access to electricity, and the majority of families live together. This demonstrates that their socioeconomic situation is favourable. Almost every home has a toilet on the grounds, and 73.5 percent of homes have piped water. The remainder homes have a hand pump or a bore well.



It has been discovered that analysing the pattern has provided information into the community where corporate social responsibility programmes are being implemented. The sample size is appropriate representation for the purpose of the social audit.

CHAPTER 4

PROJECT—RURAL DEVELOPMENT

NPL built roads, community centres, Dharamshala, training centres, culverts, drains, walkways, toilets, cremation grounds, and sports fields in several villages as part of this CSR initiative. In several communities, the old infrastructure was improved and restored in addition to the construction of new infrastructure. es. There are several reasons for this, one of which being a lack of money in local panchayats. Due to a lack of money, projects are not completed, work is of low quality, and coverage is confined to a small population or region.

Table No 5: Infrastructure Development at Villages levels by NPL-CSR

S.No	Villages	EWS Housing	Ash Filling	Community Shed	Village Road	Pond Cleaning
1	Uppal Heri					
2	Salempur					
3	Kharola					
4	Jansua					
5	Sarai Banjara					
6	Dadu Mazra					
7	Kotla					
8	Sindhra					
9	Chandu Mazra					
10	Bhappal					
11	Sadhror					
12	Nalash Kalan					
13	Nalash Khurd					
14	Naina					
15	Basantpura					
16	Ugani					
17	Choti Kheri					
18	Sural Kalan					
19	Mirzapur					
20	Urna					
21	Gurditpura					
22	Niamatpur					
23	Akbarpur					
24	Kehargarh					
25	Bakshiwal					

These community places provide a common platform for all the village members to carry out various group activities. It was observed during the field research that good quality material was used in the construction and all activities were done under the supervision of NPL staff. After completion, these places were handed over to the village Panchayats. These interventions were highly appreciated by the villagers as there was no untimely delay in the work. When asked about the type of construction done by NPL, respondents reported that village peripheral roads, Panchayat centres and filling of the earth are the major infrastructural works completed.

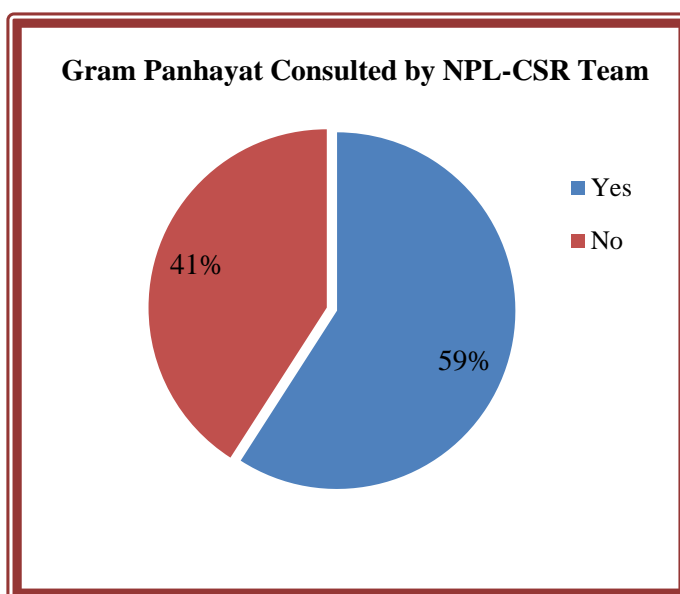




Villagers were dissatisfied with the government's performance. The government operated at a snail's pace, and its work was not transparent. "The government never completes any job on time," one of the recipients said during the field visit. "At least NPL is better at this."

All of these modifications have been made in the best interests of the community. It's critical to determine if these facilities are used by the general population. On a daily basis, villagers use the roads on the periphery. It's worth mentioning that the Choti Kheri village community shed is not handed over to the panchayat. The condition of the community shed has begun to deteriorate.

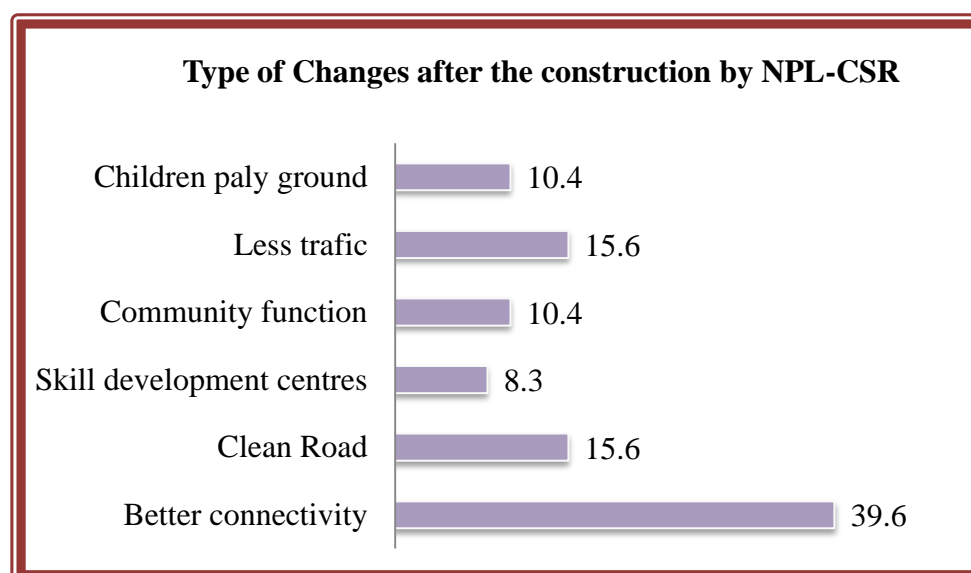
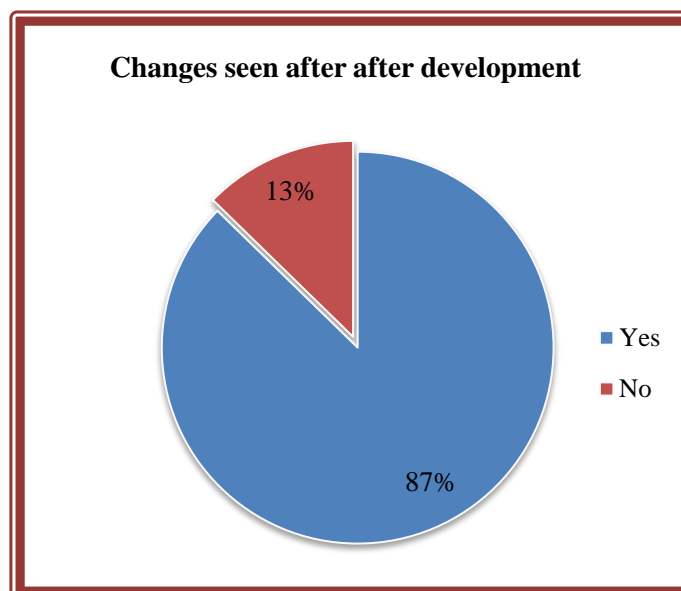
It was observed that Gram Panchayats were consulted on every construction work conducted by the NPL. The NPL CSR team visited sites and consulted with village functionaries and all stakeholders before starting any project. Inputs from local people were also taken during construction work. Incorporating all stakeholders in the process shows the positive attitude of the organisation in conducting CSR activities. All the CSR activities are directed at helping the local population in day-to-day life. It is imperative to understand the perceptions of people regarding developmental work.



Construction of roads, buildings and grounds has helped in better connectivity and convenience for the village people. 87 per cent of the panchayat members were part of the consultation for development work. Most of the time, consultation was provided in the form of meeting resolutions (matta). Respondents acknowledged infrastructural development in the villages and

believe that the CSR activities have been instrumental in bringing positive changes to the community. Although a few people (13%) reported that there had been no change in the region, citing a lack of facilities in the village.

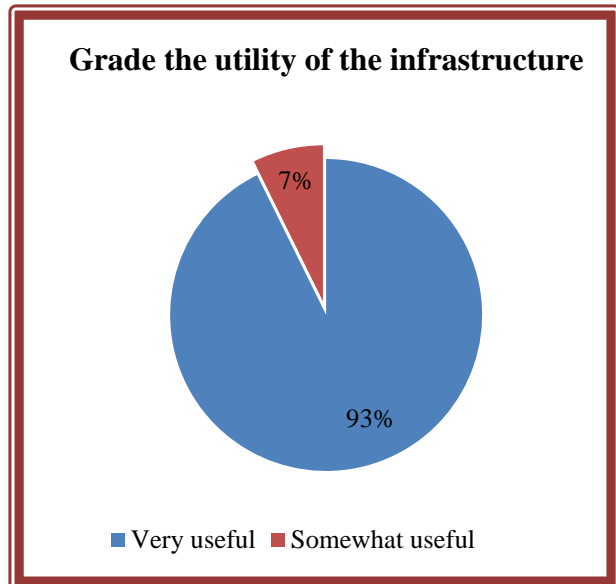
When questioned about improvements as a result of NPL's construction work, over forty percent of respondents (39.6%) said that connectivity to nearby villages and the national highway had improved, followed by cleaner roads and reduced traffic (15.6 percent).



According to the graph, the panchayat (87%) is in charge of upkeep, although some respondents were critical of the maintenance, claiming that no one looks after these structures. NPL is said to maintain structures such as roads and grounds by 6% of respondents.

NPL's effort was well received by the beneficiaries. The villagers were never forgotten in the development process, and they were consulted every time our panchayat was consulted. The maintenance work is done by the panchayats, and the NPL has no involvement.

NPL should also assist village panchayats in preserving these structures, according to recipients. Villagers were pleased with the high-quality infrastructure provided by NPL. Villagers were asked how satisfied they were with the infrastructure improvement initiatives. It was discovered that 88.4 percent of respondents were happy with NPL's work. Villagers were asked to assign a grade to the infrastructure based on its utility. 93 percent of thought these structures were beneficial to them.



CHAPTER 5

PROJECT: WATER AND SANITATION

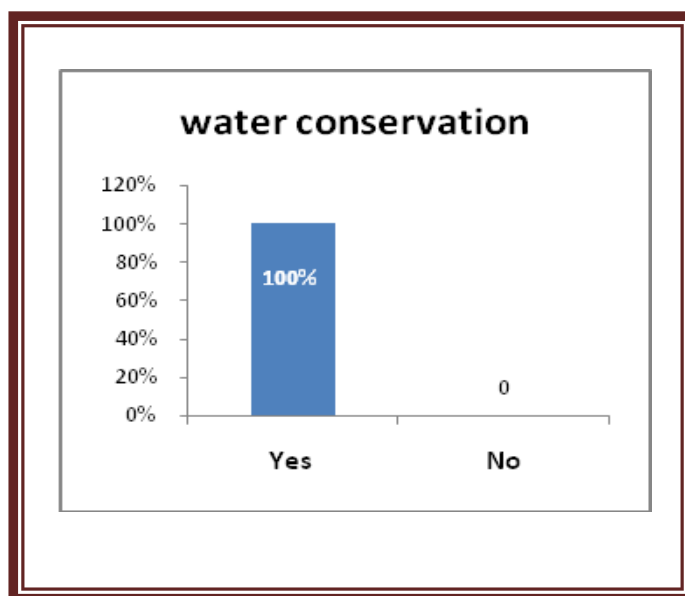
Water has always played a central role in human societies. It is a basic essential to all the world's inhabitants and a key driver of sustainable growth and development. Water is a source of life and prosperity, though it is a complex economic good that permeates all aspects of life on Earth. Managing water as an economic good is an important way of achieving efficient and equitable economic growth in the economy. Better access to clean water and its management creates a tremendous strategy for the economic growth of the country. There is a close link between water and the economic growth of the country. Good management of water resources brings more certainty and efficiency in productivity across economic sectors and contributes to the health of the nation.

“पवन गुरु, पानी पिता, माता धरत महत्” (Air is teacher, water the father and Earth the great mother), is a shalok (verse) in ‘Japuji Sahib’, a religious text of Sikhism. Guru Nanak Dev had given this mantra on the land of Sultanpur Lodhi over five centuries back. With this the Guru had created tried to sensitise people on respecting air, water and Earth just like one respects teacher, father and mother by keeping all these natural sources clean.

Keeping this in mind, Nabha Power Corporation Limited (NPL) has taken an initiative to conserve water in rural areas under CSR programmes through traditional methods. Water conservation as observed in the rural area is a challenging task as awareness of the same is very nominal and people are not very sensitive on this issue. Contrary to this when the field team talked to villagers in this regard, all the

respondents agreed with the thought of conservation of water. People quoted that our religion teaches us to keep our natural resources clean and conserve to the most.

NPL as mentioned has taken initiative to conserve water through the traditional method and to establish it

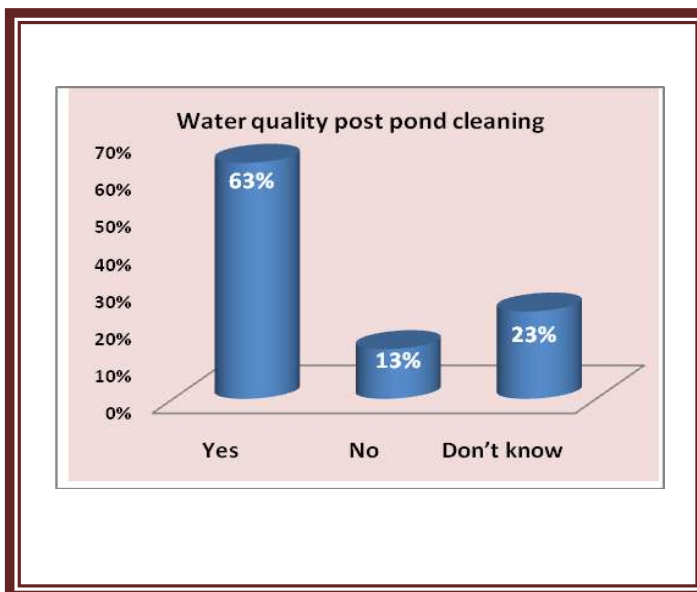


Awareness regarding NPL water conservation programme in the community

NPL initiated various activities like pond development, pond cleaning, JCB deployment, land reclamation and building a new drainage system and repairing the old drainage in the selected villages. Gram panchayat

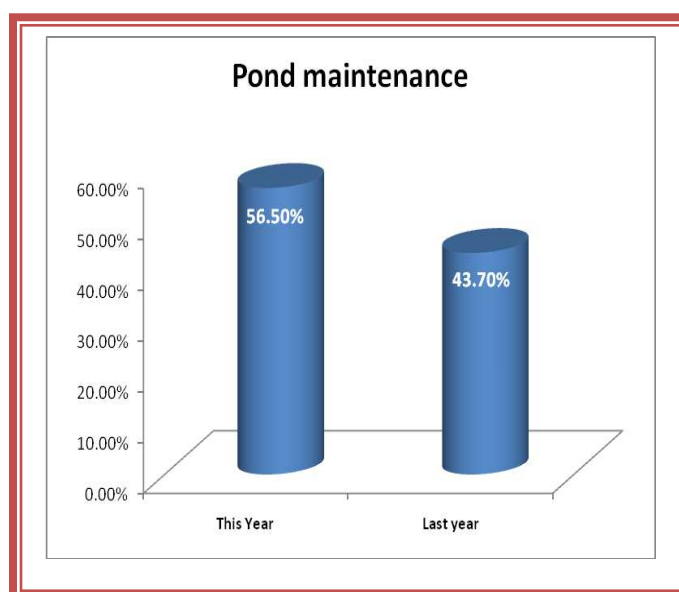
consultation and when they agreed on the concept, the projects were initiated in their areas. The field team visited some of the villages where this programme was being implemented and asked about the programme to analyse the awareness about the programme and about the implementing agency. It was found that most of the people were aware of various programmes being

implemented in the project area. There are two programmes, namely land reclamation, of which only 13% of community members are aware, and the second one is drainage system development, for which only 37% of people were found to be aware. This shows that community involvement needs to be enforced for better participation.



Pond renovation:

The artificial recharge to groundwater aims at augmentation of groundwater reservoir by modifying the natural movement of surface water utilizing suitable civil construction techniques. Artificial recharge techniques normally address issues like Conservation and storage of excess surface water for future requirements,



since these requirements often change within a season or a period, improvement in the quality of existing groundwater through dilution and enhance the sustainable yield in areas where aquifers are depleted due to various reasons. NPL initiated the programme keeping these

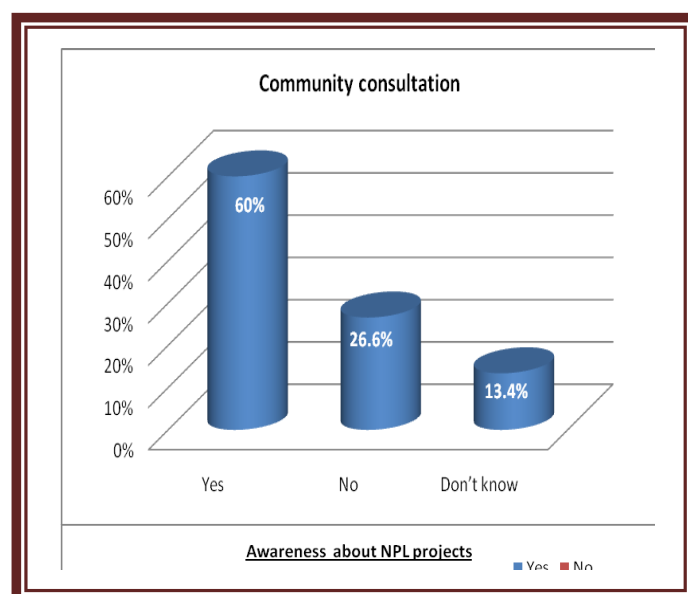
issues in mind. The field team asked about when the ponds were renovated it was found that around 57% of respondents told this year while 43% told last year.

Community consultation:

Community consultation is the predominant method of people's engagement in social development projects. Therefore, understanding stakeholder interactions within the consultation is critical to acquiring a social licence to operate. There should be community consultation before initiating the project as this give an insight into the area and specific need. It is realized that

there are multiple, diverging understandings of the purpose of consultation both within and between stakeholder groups. The community experience of consultation drove negative and positive perceptions of the proposed project due to procedural and personal factors.

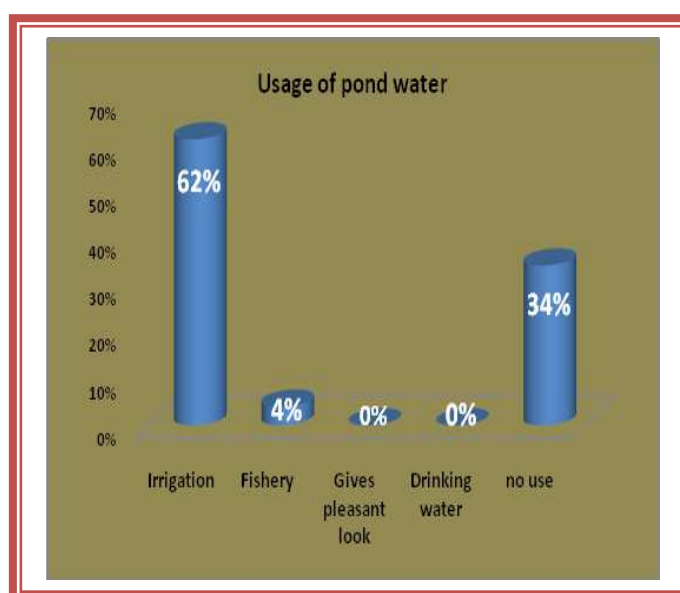
Field investigators when asked to the community members regarding consultation done for the projects, 60% of the respondents gave their response in affirmation while 27% negated it and 13% process of were not aware of the process. This shows that the community consultation process needs to be followed properly.



Usage of pond water:

The collection of water is an asset for the community and it is well said that it is not an only asset but also plays an important role in economic activities. Water bodies not only recharge the water table but are also useful for community usage.

When asked to the community about the usage of the ponds water, 62% of respondents confirm its usage for



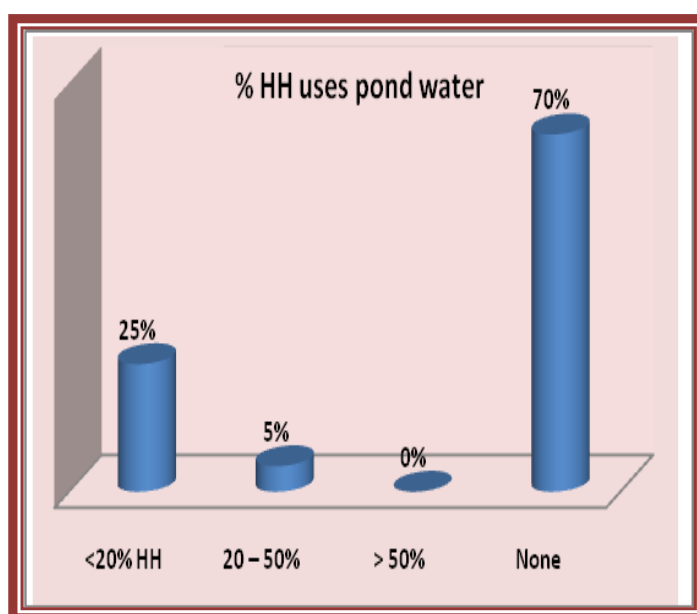
agriculture purposes, 4% respondents told that it is used for fishery while 34% of the respondent told that it is of no use. This shows that one-third of the population found it of no use which needs to be addressed as awareness for the same is required.

Water quality is an important part of environmental monitoring. When water quality is poor, it affects not only aquatic life but the surrounding ecosystem as well. Monitoring the physical properties of water quality is an essential part to maintain a healthy water body.

Asking about the water quality of the pond, 63% of respondents are satisfied with the water quality post pond cleaning while 13% are not satisfied and 23% of respondents are unaware of the fact.

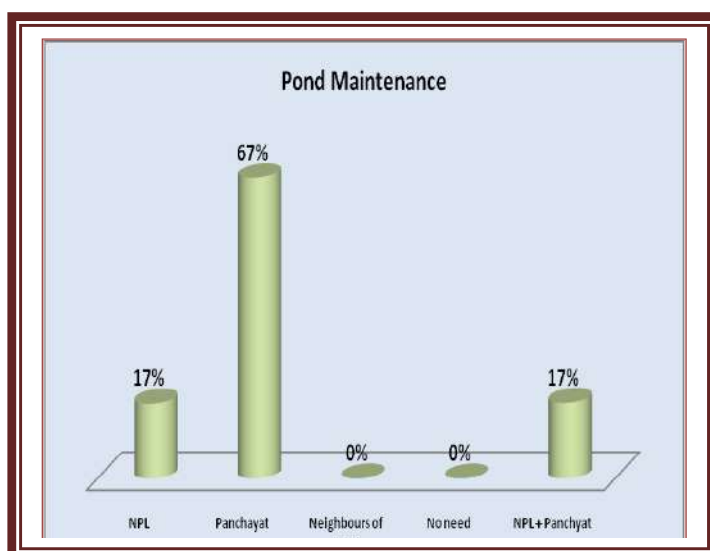
Pond water used by community

When field investigators asked about usage of pond water to the respondent, only 30% of the respondents assured about the usage of pond water while 70% of respondents negated for the usage of pond water. This shows that usage of pond water is very low though many uses including providing water for agriculture, livestock and communities, aiding in habitat restoration, serving as breeding grounds for local and migrating species and decorative components of landscape architecture.



Maintenance of pond

Most environment-sensitive people are aware of the importance that good quality maintenance of ponds is essential to keep its water bio-friendly. It plays an important role in a pond habitat. It is challenging to get or keep water quality and its upkeep so that contamination in water should not be percolated.

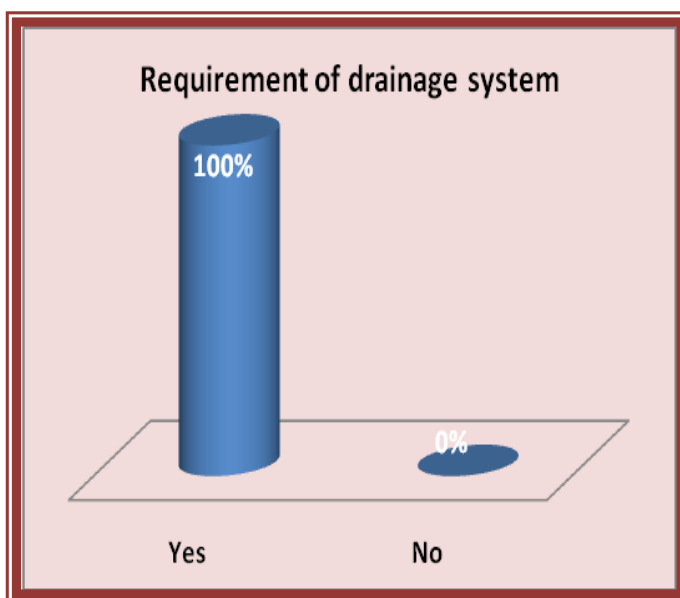


Sometimes water in a pond seems clear but fish or other aquatic creatures are finding it difficult to survive in it.

When asked who will be responsible for the maintenance of the pond, 67% of people understand that panchayat will be responsible for the maintenance while 17% understands that NPL will take the responsibility of maintenance. 17% of respondents told that it is co-responsibility of both NPL and Panchayat. This shows that the community is not ready to take responsibility for the upkeep of the pond.

Drainage system importance and requirement

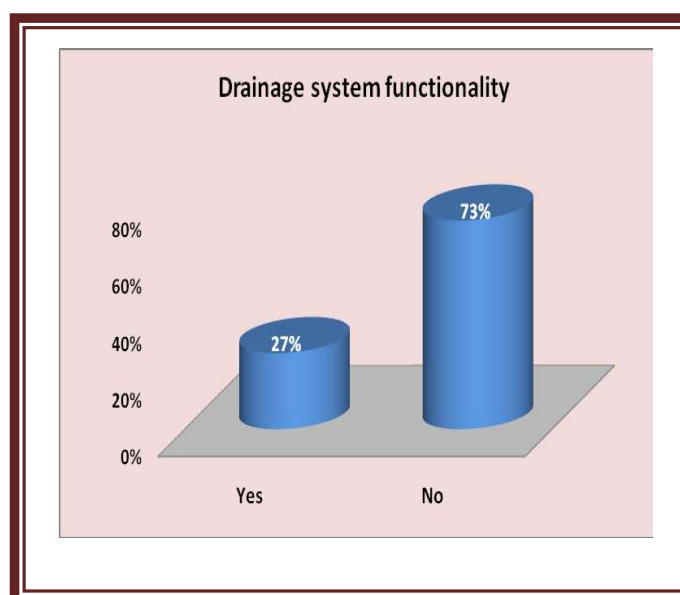
Every household generates wastewater. For instance, it has been estimated that each person generates a minimum of 15 to 20 litres of wastewater per day. This wastewater can only be managed through a proper drainage system else it will create mud in front or at the backside of each house which not only challenges cleanliness but raises many health-related issues.



Community members do understand the importance of drainage systems therefore when field investigators enquired about the importance of drainage systems, everybody agreed that it is very important to keep our surroundings neat and clean and healthy and affirmed its requirement for the villages.

Drainage system functionality

Drainage system upkeep in most of the areas where field investigators visited was not up to the mark. When field investigators asked about the functionality of the drainage system, 73% of the respondent told that it is not working as it should work while 27% of respondents were satisfied with the functionality of the drainage system.



This shows that drainage systems are not developed properly and no initiative has been taken to keep the drainage system clean so that there should be smooth sludge flow.

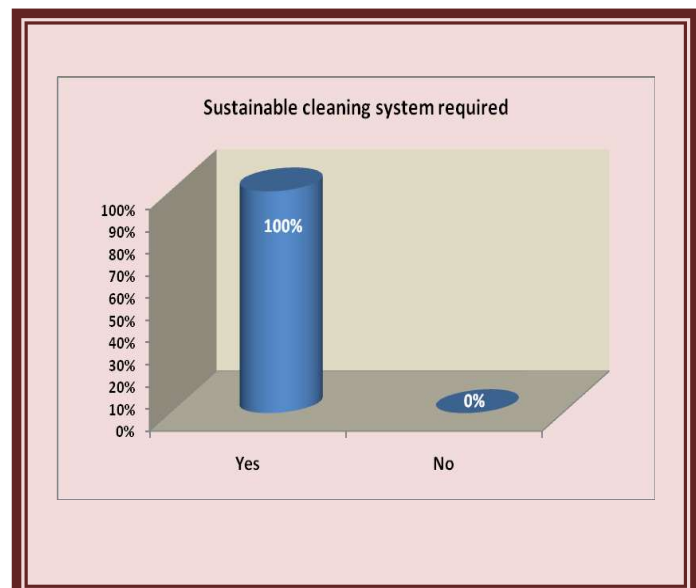
Agency responsible for cleaning

Community members need to understand the agency responsible for cleanliness. When field investigators asked about the agency responsible for the upkeep of the drainage system, 83% of the respondent told that Panchayat is responsible for the maintenance of the drainage system while 13% told that NPL should take the responsibility as they have developed the drainage system. 3% of respondents told no one takes the responsibility of cleaning.



Sustainable cleaning system

Field investigators asked whether a sustainable cleaning system is required so that the whole village area must be clean for a healthy environment, all the respondents agreed and voted 100% for this question. This shows that system is not working properly and need to develop a system through which cleanliness of the village may be ensured.





Pond Cleaning- Urna



Drain at village Majri - After

CHAPTER 6

PROJECT EDUCATION

Education programme under CSR

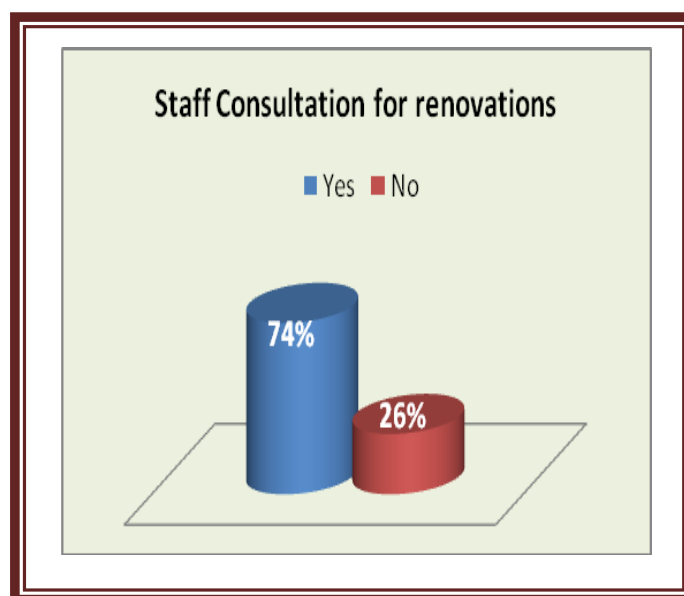
Rather than focusing on improving programmes selectively or adopting a piecemeal approach to reform, CSR programmes are intended to cover all aspects of low-achieving schools' operations through curriculum changes, sustained professional approach, and expanded parental involvement. Under the CSR programme, NPL has taken the initiative to help some of the government schools in the area of the facility. The goal of this initiative is to improve infrastructure and provide educational assistance. Different events took place in different schools, such as the distribution of furniture to teachers, the distribution of dictionaries to pupils, the distribution of scientific kits, projectors and so on.

In some of the schools, a learning enrichment programme was implemented, in which pupils were given additional Math and English courses to help them excel in these areas.

Consultation for infrastructure development:

It is important to identify correct stakeholders who can play an important role in the implementation and the project plan should be discussed and vetted before the implementation of the programme.

Field investigators when talked to the staff regarding the consultation before the implementation of the project, 74% of the respondents affirmed that consultation took place while 26% denied any process of consultation, which shows that all the staff members were not involved in the consultation.



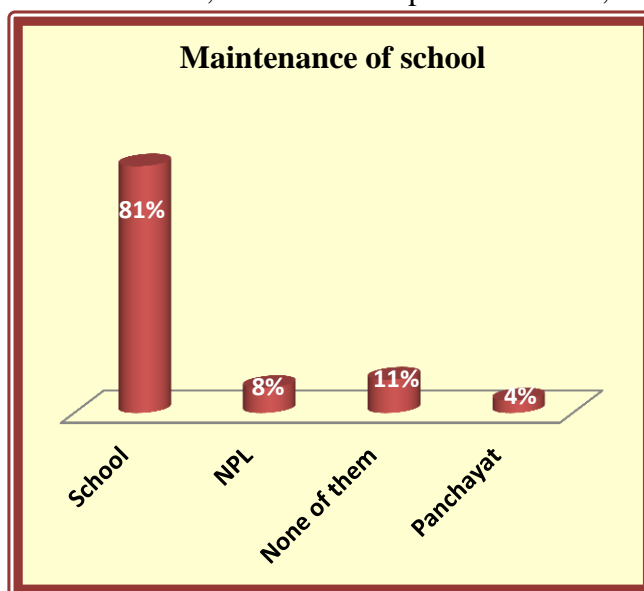
Change after NPL intervention

NPL has adopted a few schools, and infrastructure has been built to meet the needs of the students. Several infrastructure development projects were undertaken during the previous fiscal year. After this activity, it is predicted that social and facility indicators would alter. When field investigators inquired about the changes that have occurred as a result of

infrastructure development, 93% of respondents stated that there has been an improvement, while 7% claimed that there has been no change since it might have been planned better. This shows that most of the people are satisfied with the development which has given better paraphernalia and good ambiance to the school.

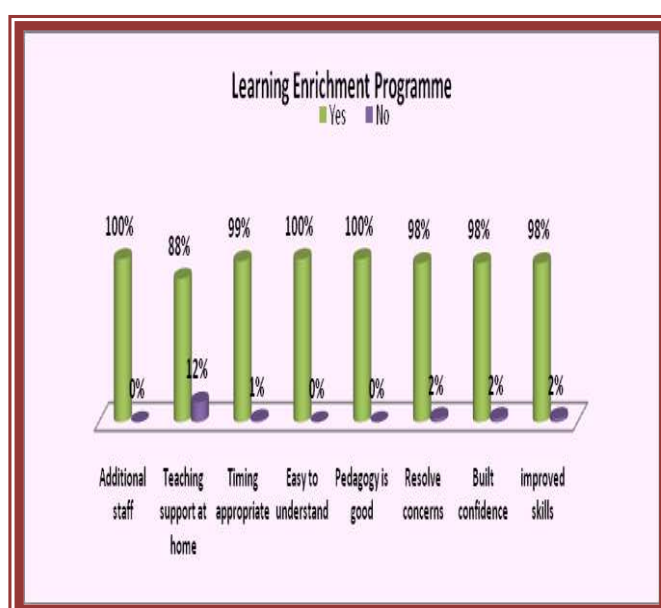
Maintenance of the developed infrastructure

NPL has taken the initiative to create infrastructure, which is a positive move, but infrastructure must be maintained on a regular basis to ensure its long-term viability. Infrastructure development is a one-time task, while maintenance is a continuous effort. When field workers inquired about the upkeep of the created infrastructure, the majority of respondents (81%) felt that the school would be responsible for it, while 8% assigned this obligation to NPL and 4% to the Panchayat. No one would maintain this infrastructure, according to 11% of respondents, because no one has accepted responsibility for it.



Performance of school Learning Programme

The idea behind a school learning programme is to enhance students' Math and English study while also assisting schools by giving extra staff to aid with academic administration. Schools were closed due to a COVID issue, and help was offered through online classes.



Field investigators went out into the field to collect data on various variables in order to assess the program's effectiveness.

The respondent's reaction indicates that the programme is a success, and that kids are benefiting from it. To alleviate the staffing issue that was affecting academics, NPL offered additional personnel to all of the schools that were chosen by NPL. Schools were closed while COVID 19 began, the students were taught online as part of a project. Twelve percent of pupils were without a smartphone, laptop, or internet connection, causing a catastrophe. The rest of the students were studying online while being monitored by their teachers. The majority of respondents agreed that the class times were suitable. All of the respondents were happy with the approach and practise of teaching, particularly as an academic subject or theoretical idea. Students' confidence has grown as a result of this training, and their ability to comprehend courses has increased. In compared to the previous year, when this assistance was not provided, the majority of pupils are able to cope with the topics and do better.

Anganwadi

NPL has taken the initiative to assist the programme by providing infrastructural and paraphernalia support to existing Anganwadi centres in communities. The team went to one of these facilities in the village Kharola, where about 57 children are registered.

Location:

As anganwadi centres are intended to be the first local outposts for health, nutrition, and early learning, they must be placed in a location that is easily accessible to everybody. This is a crèche for the children of mothers who work under the MNREGA or who go to work every day to supplement their family's income. As a newborn, children of a young age, and expectant mothers are the benefactors of this centre, its placement is important.

The survey reveals that the centre has been relocated. During a focus group discussion, it was discovered that the anganwadi centre had no permanent premises and was operating from a temporary location. The Village Panchayat, in collaboration with NPL, took the initiative to build a permanent building at the school in order to provide better services to expectant mothers and children aged 0 to 6 years, as per the guidelines.

When the field team inquired about the anganwadi centre's location, 83 percent of participants expressed satisfaction with the site since it is easily accessible and people can easily access services.

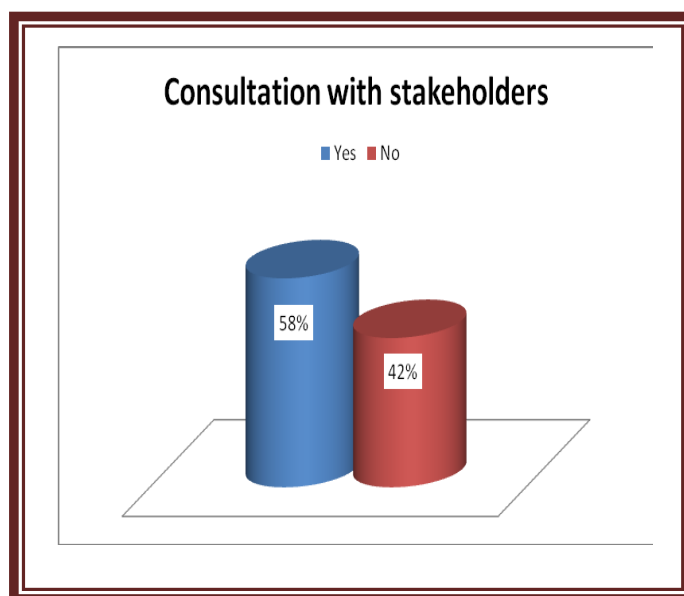
It is also affirmed by the participants that the new building is developed by the NPL in consultation with the village panchayat. According to census data from 2011, the population of children aged 0 to 6 in Kharola village is 243, accounting for 11.34% of the village's total

population. This structure developed by NPL cannot accommodate even half of the children counted during the 2011 census.

Consultation with key stakeholders for AWC

The field team asked the participants whether consultation for this infrastructure development was done before the initiation. 58% of the participants said yes, and 42% of the participants were not aware of such consultations. It shows more participation during the consultation is required.

During the field survey, when asked who all stakeholders have been consulted for this programme as this is meant for the community, most of the people said that we are unaware of any consultation but affirmed the participation of the Sarpanch in it. 92% of the participants affirmed that the consultation was done only with Sarpanch and 8% confirmed the participation of Anganwadi workers. It



shows that government officials have not been consulted for this project, and the same was found during the FGD, as neither the school nor the anganwadi centre has any such document like minutes of the meeting or order through which it may be verified the involvement of officials in it.

Paraphernalia at Anganwadi centre

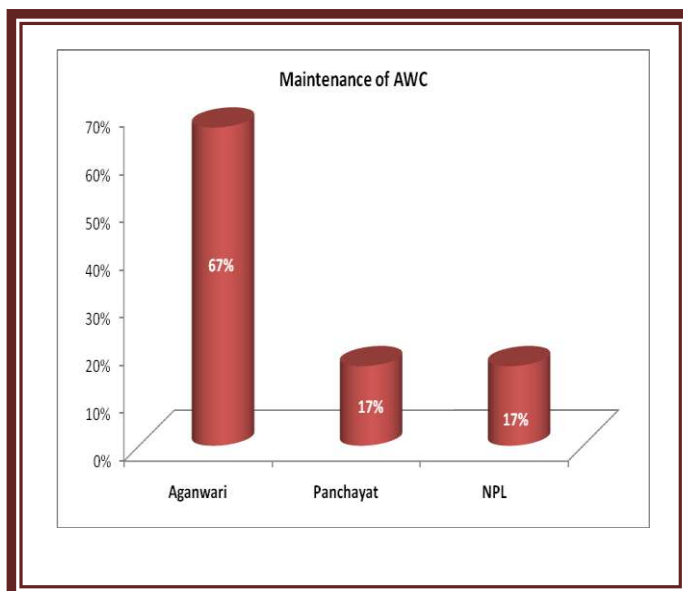
All of the participants stated that NPL provided all of the paraphernalia, such as furniture, utensils, and other items, and that they are meeting the demands of the centre. During the FGD, it was also confirmed that NPL provides the basic accessories.

Maintenance of AWC

Facilities and infrastructure management programmes that are successful include a well-balanced resource mix that includes both infrastructure development and maintenance components. The capacity for maintenance is the best indicator of the CSR program's vitality

and endurance. It is possible to feel inspired to construct anything for a short period of time, but the desire and ability to keep things in good repair on a daily basis is uncommon.

When the field team asked about the maintenance of the developed infrastructure, most of the people said it would be managed by an anganwadi centre. 17% gave this responsibility to the panchayat, while 17% found NPL to be responsible for the maintenance.



During the FGD, it was discovered that AWC had no funds set aside for the upkeep or even modest repairs of the damage. The Sarpanch and Panch were unable to comment on this matter, and no Memorandum of Understanding was discovered via which the established criteria for infrastructure construction and upkeep could be confirmed.

CHAPTER 7

PROJECT SKILL DEVELOPMENT

The NPL concept is built on meeting industry demands and is hence focused on preparing students for employment. NPL also works with other essential stakeholders, such as the federal and state governments, private enterprises (both funders and employers), foundations, and trainees. NPL started the initiative as a CSR effort in conjunction with the National Skill Development Corporation (NSDC).

NPL launched a skill development programme in its outlying communities in order to empower women in 2012. The initiative is being carried out by professional trainers. Through skill training centres in communities, NPL provides skill training to girls/women in various professions such as Stitching, Embroidery, Knitting, Parachute work, and Beautician. NPL covers the operating costs of these centres, which include the construction of facilities, the assembly of equipment, maintenance, and the payment of workers or trainers. The program's goal is to encourage young girls and women to engage in income-generating activities.

The need for the intervention was identified from the baseline report, conducted by the CSR department. The project focuses on empowering the youth from the project affected families in the peripheral villages of the plant. This was achieved by imparting employability skills and by helping them employed; thus equipping them with a means of stable livelihood. The identification of beneficiaries was instigated by NPL through a rigorous process. A team of NPL CSR enters the community and interacts with local stakeholders and elected members for interacting with locals. The stakeholders help in understanding the village environment and dynamics for the team. Further, the agenda is broadcasted and communicated to targeted audiences for the main selection event. All information is gathered and provided to them with the help of mobilisers.

The main event is organised for youth where the trainers inform about the courses and selection of the students is done. Through assessment and interest of the individual, the beneficiary is selected for respective courses.

The criteria for selecting beneficiaries:

1. Youth from the defined project affected villages of the NPL project.
2. Age bracket: 18 to 38 years.
3. Education – Senior Secondary Qualified

The training programs were identified and structured following the market demand as well as the requirements of the youth aspirations. Knowing the fact, the youth of Punjab is more inclined towards the service sector due to paradigm shifts in recent years have changed the present scenario, it was proposed to develop a strategy for promoting an eco-system of income generation. Hence, the service sector was preferred over any other trade instinctively.

Certification was an important aspect for beneficiaries that would reflect acquired from a reputed institution. All the beneficiaries were provided certification for their respective courses. The aim and objective of the project were to create employability. Placements were not enough for students to receive jobs in reputed companies.

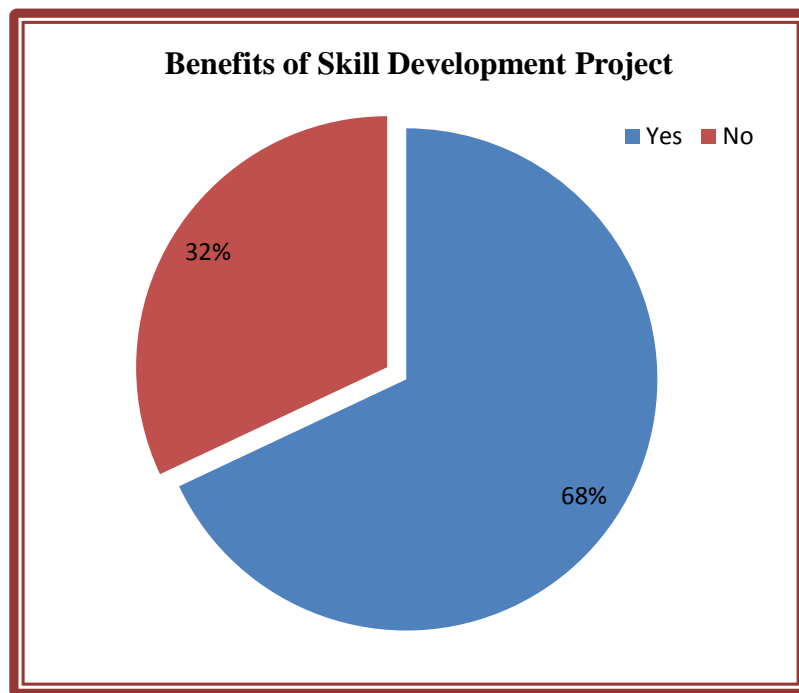
Operation & Maintenance

NPL was in charge of funding sources as well as ongoing monitoring. NPL has made significant contributions to this project. A skill development programme was created by a team of specialists, mobilizers, and trainers to generate livelihoods and jobs for educated young.

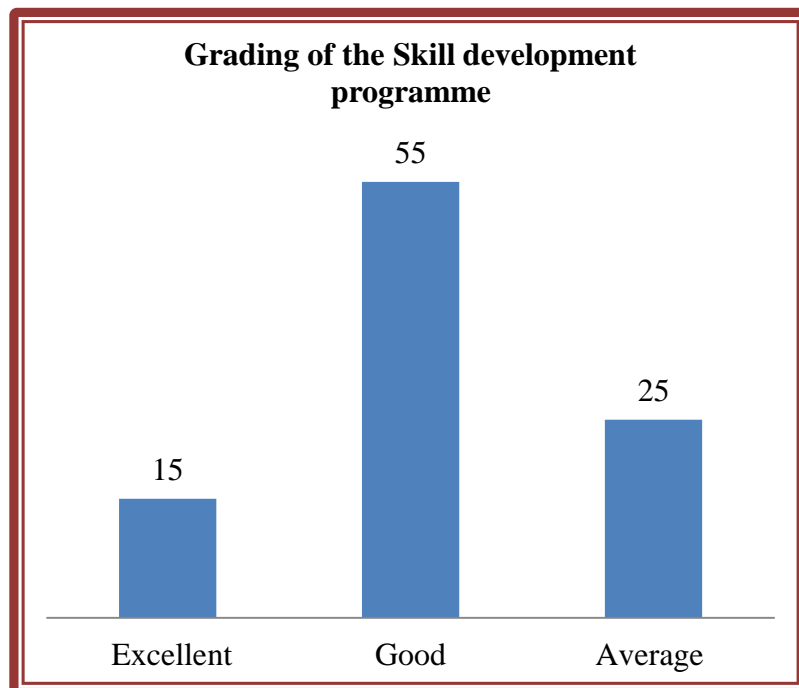
Number of Beneficiaries trained under skill development programme by NPL-CSR

Sr.No	Skill Development Programme	Village	Number of Students
1	Stitching & Tailoring	Sural Kalan	7
2		Sindhra	8
3		Sadhror	18
4		Bakshiwal	17
5		Nalash Khurd	17
6		Basantpura	10
7		Gurditpura	8
8	Phulkari & Embroider	Kotla	23
9		Kharola	2
10		Nalash Kalan	1
11		Mirzapur	4
12		Rangian	1
13	Mask production	Kharola	5

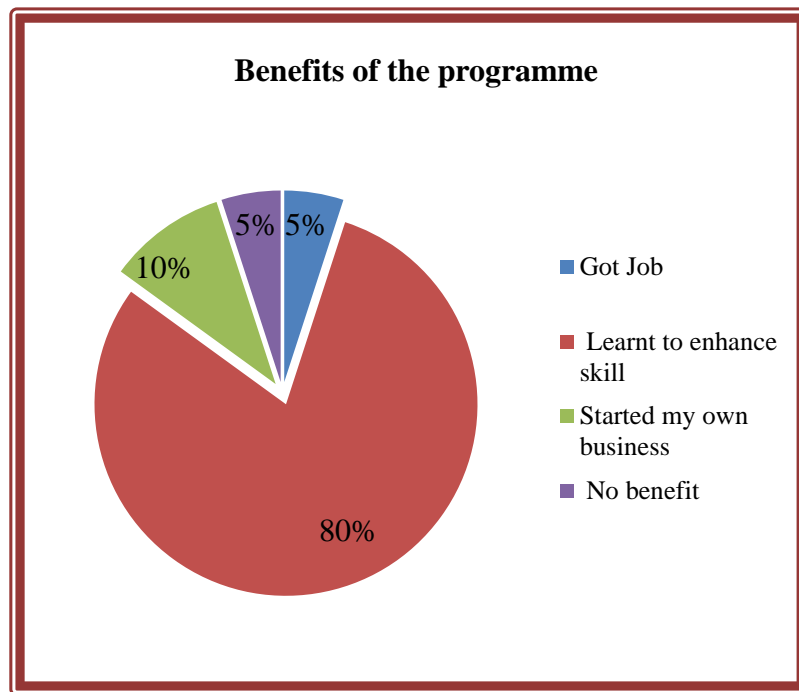
Among all CSR activities conducted by the NPL, skill development is one of the most popular and appreciated programs. Respondents were asked whether it is beneficial for them or not. The majority of trainees have benefitted from this program while 32% reported no benefit from training.



More than fifty of the respondent rated skill development programme as good.

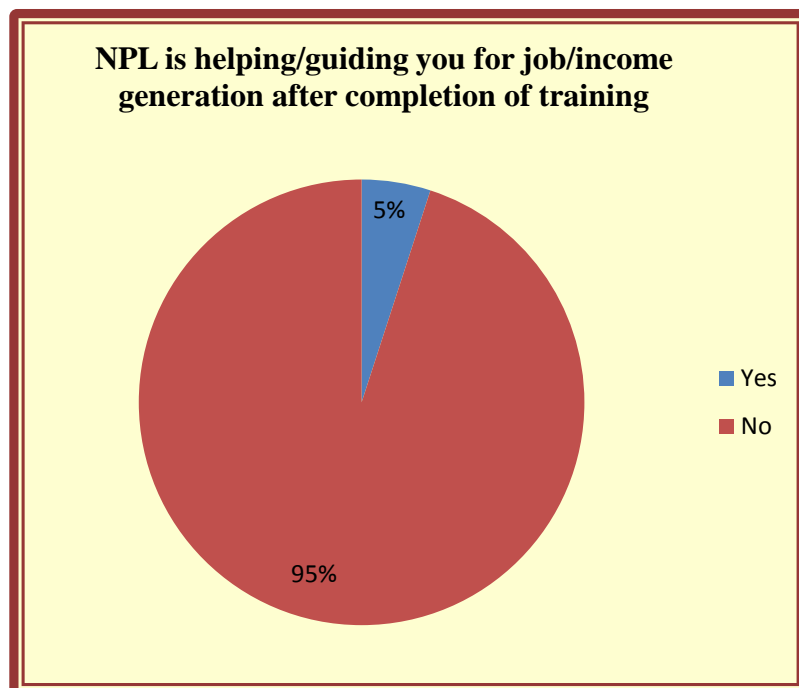


The training has helped them in learning new skills (80%), got a job (5%) and some trainees have also started their businesses(5%)



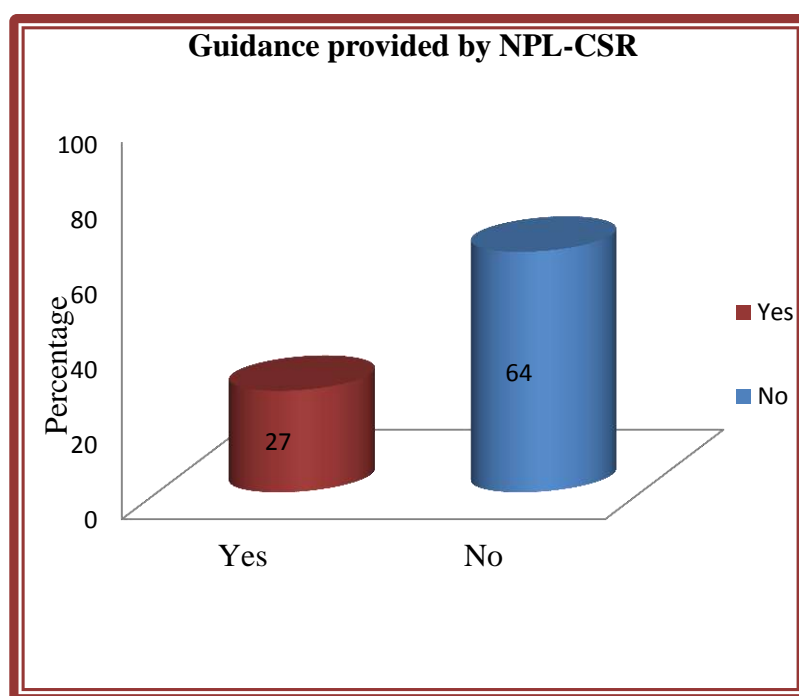
The financial benefit from NPL: All the respondents reported that no financial benefit was provided by NPL. The role of NPL is not very significant in terms of placement after completion of the training.

NPL is helping/guiding you for job/income generation after completion of training



Guidance: The majority of trainees reported that there is no guidance provided by NPL for future employment. However few respondents said that NPL employees have guided them for employment also. Proper guidance by the NPL after the completion, of course, can help

them in attaining jobs or income sources. It was the most common demand among the trainees (Bar Chart No 2).



FGD: Two Focus group discussion was conducted with around 25 female trainees of the Skill development centre. The group was enquired about the ongoing program and the benefits of the training. The members were also asked about any demands or changes they want in the present setup.

According to beneficiaries, NPL has developed the whole structure from building to equipment. It is one of the most important institutions the village has as it provides training to the female. Now females don't have to sit idle at home, instead, they can now learn and earn money.

Many females work from home and contribute to the family income. Interaction with other females and learning different skills has helped in boosting the confidence of females. More equipment for the centres as the number of trainees is increasing. Their major concern was the placement after training as more students enrolled in programmes. The scope for income generation in the village is very limited.

CHAPTER 8

PROJECT SELF HELP GROUP

NPL as part of their continual efforts for women upliftment, to strengthen the role of women as a partnership. NPL facilitates the formation of SHGs ensuring that groups represent homogeneity in terms of socioeconomic status. NPL supports each SHG for regular meetings, the opening of bank accounts, record keeping as well as to kick start internal lending and entrepreneurial activities.

Coverage

10 villages (Salempur, Rangian, Nalas Khurd, Sural Kalan, Uppal Heri, Badali, Harna, Sarai Banjara, Bhateri, Bakshiwala)

SHG activities by NPL

- Till 2019-20 23 SHGs with about 230 members.
- A saving of INR 7.86 has been generated to date
- A loan amount of INR 2 Lacks have disbursed from Cooperative Bank to 3 SHGs
- 11 members are involved in entrepreneurial activities
- 25 SHG members have trained in collaboration with ICICI Foundation on Kitchen Gardening
- 4 SHG members have been employed by NRLM as Cluster Resource Person (CRP)
- Produced and supplied 16000 units of face masks during the outbreak of Covid -19

The village Uppal Heri (the village understudy) is located near to NPL plant. 2,000 people are staying in the village. There are concrete/*kutcha* houses in the village. It is a rural village with limited basic amenities. The village has a Garam Panchayat.

The sample consisted of 8 women from 1 SHG operating in village Uppalheri . There was an average of 10-12 women in each SHG. The lowest average membership of about 10 and the highest average membership of 12. The average size of families were five or more members. The total amount of Revolving Fund Assistance received by the women SHGs in Village was Rs. 12,00.

Every month these women collect money and give it to needed women within-group at the 1% rate of interest. Every month they have organised one meeting. Some of them used to

borrow money for purchasing of household items like TV, Refrigerator etc, some of them started their shop.

85% of the women were between the ages of 35 and 45, with the remaining 15% between the ages of 30-35. Out of 12 members, about all were married. About 60.33% of the respondents had primary level education, and about 15.17% had high school education. Further, only about 10% remained illiterate (Table 4). The women of the village were housewives.

As per the cumulative saving done by SHG's in April 2017, it had increased to 2.10 lacs in June 2021. The increment itself showed the improvement and success of SHG's. The SHG had group meetings fortnightly and informal training sessions on finance, group formation, team work, leadership skills, and child wellbeing, such as health and hygiene, sanitation, etc., were conducted. Self-help groups have helped women in multidimensional spheres. They have raised their monthly income through their various economic activities. The self-sufficiency attainment took time but certainly helped in the development of women in terms of their social, economic and political growth. The empowered status was felt by the decision-making trends taken by the women concerning savings. The SHGs have also changed the women's attitudes for better living, greater participation in family decision making, access to financial support and has strengthened their husband's occupation and increased their purchasing power.

During the survey of the social impact, the assessment team interacts with some of the members of the SHG and found that the role of NPL in formation of SHG was missing. These women themselves started the group. They opened their account in a cooperative bank. No training was provided by NPL to SHG women. In the last year, none of the NPL staff neither visited the SHG village nor interact with members of the SHG.

It was concluded that the SHG programme impacted the social empowerment of sample SHG respondents in a significant way. There was an improvement in certain skills also, improvement in control over resources, increase in creditworthiness, increase in self-confidence, freedom from money lenders, improvement in banking habits, increase in access to markets, increase in mobility, improvement in productive skills, improvement in communication skills, increase in bargaining power, improvement in marketing skills. The formation of SHG has created opportunities for women for income-earning activities. The SHG Program has been taken as a resource mobilisation support for women since the self-

help approach gives a sense of achieving collective strength. SHGs are motivated to build capacity in a portion of their members by providing a capacity-building process. in social "status" and "role" It was seen that there was an increase in participation in outdoor activities and participation in decisions.

SKILL DEVELOPMENT CENTRE



थर्मल प्लांट राजपुरा में सड़क सुरक्षा सप्ताह शुरू

[illegible]

इस रीति का अर्थात् पाठ के औपचारिकता से रहा कि जिस तरह दिन जितने दिन हफ्ताओं में खोजें जाते हैं, इन हफ्ताओं में खोज के लिए ऐसे दैनिक नियमों का चयन करना चाहिए। दैनिक नियमों का चयन कर लें कोनो निश्चित प्रकार का मकसद है। इस रीति पर यह, सबसे, मजबूत, लीला, बलविर, समझ, जिसमें हफ्ता के लिए, उन हफ्ता, निश्चित और नियम है।



Road Safety Drive

नाभा धर्मल प्लांट के सहयोग से गांव उगानी में ग्रामीण खेल कस्वाए
कबड्डी में गांव उगानी व 200 मी. रैस में अंकित प्रथम

[illegible]

गया। श्रीमान ने यह बात
ने जान, अपना ने दुमा
उम्मीदी ने लोका लाने का
विषय। इसी लोका लाने का
लोक उम्मीदी ने जान, अपना
ने दुमा, यह लोका ने लोका
लाने का विषय। उम्मीदी ने

उपरी में फाल, यह सब दुर्गे
दुर्गा सोने छोटी की टीन लोहा
स्वयं प्रसन्न किया। 100 मीटर
में में लोहा भद्राङ्ग ने फाल
हो। उपरी में दुर्गा, अमृत
हो। उपरी में विष्णु स्वयं प्रसन्न

Sports To

Tournament

कैंपमें 600 से अधिक मरीजों का चैकअप

फतेहगढ़ साहिब (रामचेत, अमित): पंजाब सरकार सूबे के लोगों को मानक सेहत सहायितयें देने के लिए बचनबद्ध है और सरकार की तरफ से सबत



विधायक कुलजीत सिंह नागरा मैडीकल
चैकअप कैंप का आयोजन करते हुए।

का में लगाए। मुगत मैत्रिकल चैक अप कैम्प में शामिल होने मैत्रिका के। नागरा में अहिक एसे चैक लोग के लिए बहुत सहायक सिद्ध होले है। कैम्प में 600 से अधिक लोग ने अपना चैक अप करवाए। इस चैक पर सरपंच बलवीर सिंह, बलविन्दर सिंह, हरभजन सिंह, गुरसेव जसबीर सिंह समेत बड़ी संख्या गांववासी उपरि

ਥਰਮਲ ਪਲਾਂਟ ਰਾਜਪੁਰਾ ਵਲੋਂ ਵਿਸ਼ਵ ਵਾਤਾਵਰਣ
ਦਿਵਸ 'ਤੇ ਕਰਵਾਇਆ ਨੱਕੜ ਨਾਟਕ



ਗੁਜਪੁਰਾ ਤੇ ਸੋਮਵਾਰ ਦਿਨਿਆ ਸਿੰਘ) ਨਾਭਾ ਪਾਥਰ ਲਿਖਤਿ ਕਰਮਲ ਪਸਾਂਟ
ਗੁਜਪੁਰਾ ਵਿਚਕ ਵਾਤਾਵਰਣ ਵਿਚ ਮੈਂਕੇ ਬਹਮਲ ਖਿਡ ਦੇ ਅੰਗੀਕਾਰੀ ਸ਼ਾਕਨਕਤ
ਸਿੰਘ ਅਤੇ ਲੌਲਤ ਕਾਮਰੇ ਰੇ ਅਯਾਦਾਰੀ ਵਿਚਿ ਖਿਡ ਦਬਾਲੀ ਕਰਨਾ ਹੋਰੇ ਤਰੱਕਾਤਾ
ਵਿਖੇ ਗੁਜਪੁਰਾ ਸੰਭਾਲ ਸੰਧੀ ਪ੍ਰਾਪਤ ਨਾਨਕ ਕਰਬਾਰੇ ਕਿਹਾ ਹੈ ਉਹਨਾਂ ਸਿੰਘ ਸਾਕਨਕਤ
ਸਿੰਘ ਨੇ ਕਿਹਾ ਕਿ ਜਿਸ ਤਰ੍ਹਾਂ ਨੂੰ ਲਿਨ ਪੂਰੁਖਤ ਕਰੇ ਹਿਰਾ ਹੋ ਰਵਾ ਮਾਈ ਗੰਧਲ
ਹੋ ਹਿਰਾ ਹੋ ਸਾਂ ਵਾਤਾਵਰਣ ਨੂੰ ਬਚਾਉਣ ਲਈ ਵਾਤਾ ਵਾਧ ਤੁਹਾ ਲਾਹਿਕੇ ਹਿਰਾ ਹੋ
ਹਨ, ਪਾਸਲੀ ਨੇ ਅੰਗ ਨੂੰ ਲਾਹਿਕੇ ਚਾਹੀਦੀ ਜਿਹਨਾਂ ਦੀ ਵਰਤੋਂ ਹੋਰੀ ਕਰਨੀ
ਚਾਹੀਦੀ ਹੋ ਪਲਾਸਟਿਕ ਦੇ ਸਿਲਾਇਜ਼ ਦੀ ਵਰਤੋਂ ਹੋਰੀ ਕਰਨੀ ਪਾਸਲੀ ਇਸ ਤੋਂ
ਵਾਤਾਵਾ ਹੋਰ ਵੀ ਪ੍ਰਿਥਲ ਕਰਨੇ ਚਾਹੀਦੇ ਹਨ।ਨਿਸਿ ਮੈਂਕੇ ਬਹਮਲ ਪਸਾਂਟ ਹੋਰੀ
ਗਰਨੀਤੀ ਸਿੰਘ ਬਜਜਾ ਮਨਪਤੀ ਸਿੰਘ ਬਲਦਿਵਿ ਸਿੰਘ ਨੇਟਾਂ ਸੁਧਾਨੀਤ ਹੋਰੀ
ਸੁਪਰ ਮੁਕਤਿ ਚਾਲੀ ਕਰਨਾ
ਹੋ ਦਿਲਾਵਾ ਵੱਡੀ ਗਿਣਤੀ

Street Play – Stubble Burning

Street Play – Stubble Burning

ਥਰਮਲ ਪਲਾਂਟ ਰਾਜਪੁਰਾ ਵੱਲੋਂ ਦੂਜਾ ਖੂਨਦਾਨ
ਅਤੇ ਮਫਤ ਮੈਡੀਕਲ ਜਾਂਚ ਕੈਂਪ ਲਾਇਆ

[illegible]

Blood Donation Camp ਸਫਲ ਬਣਾਉਣ ਵਿੱਚ ਵਿਸ਼ੇਸ਼ ਯੋਗਦਾਨ ਪਾਇਆ।

ਨਾਭਾ ਪਾਵਰ ਲਿਮਟਿਡ ਵੱਲੋਂ ਕਿਸਾਨਾਂ ਨੂੰ ਪਹਾਣੀ
ਦੀ ਸਾਂਭ-ਸੰਭਾਲ ਪ੍ਰਤੀ ਕੀਤਾ ਗਿਆ ਜਾਗਰੂਕ



Farmers Meet

Farmers Meet

SUGGESTIONS AND RECOMMENDATIONS

In this section the social audit team has provided suggestions to improve the project delivery of CSR projects of NPL.

Rural Development

- NPL needs to have a multi-stakeholder meeting to evaluate the inconsistencies and consider possible steps that could be taken to clarify the existing contradictions and set a new bar of understanding of common thinking about infrastructure development before the start of the new project.
- There is a need for proactive participation from the NPL CSR team to bring stakeholders together and deliberate on issues or areas which can cause potential issues.
- NPL's CSR strategy should immediately translate into better percept of the company internally and externally. Infrastructure development projects unfortunately have not reached that zenith. There are perception issues which require to be taken care of.

Education

- There is no document available that evaluates the need for assistance solely in Mathematics and English and not in other disciplines. Every program's planning process must include a need assessment.
- Lack of monitoring has been observed as tracking of students' performance could not be done during field visits.
- To keep up, teachers employed by NPL must be trained in methodology at all of the schools where NPL CSR is intervening.
- Construction of the Anganwadi centre is to be funded by MNREGA money, according to Ministry of Women and Child Development, Government of India guidelines, but no documentation were discovered to assess whether those funds are available or not with Panchayat. There is a risk of duplicity in funds.
- The role of education department need to strengthen as the involvement is limited.

Skill Development

- The success of skill development lies on creating employment opportunity for the unemployed and unskilled youth NPL along with NSDC should develop support

system to create wage employment as well as self-employment for the beneficiaries through networking with industries.

- There is no mechanism/support from NPL for placement after completion of the training
- There is need to link the self help group to the market and some marketing related trainings should be organised for the staff.
- Skill based training programmes should be need based.

Annexure-10

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. :E01-2112221011 Sample Reg. Date :22-12-2021 Report Date :31-12-2021 Report No. :ICE-2112311539 NABL ULR No. :TC592621000015894F 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 Date of Monitoring Time of Monitoring Purpose of Monitoring Duration of Monitoring, minutes Avg. Flow Rate of Sampling, m ³ /min Volume of air sampled, m ³ Avg. Ambient Temperature, °C	: AAQMS-1 : 15-12-2021 : 16:05 hrs : For Self Monitoring : 1440 : 1.28 : 1840.82 : 14

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
Discipline : Chemical				
Group : Atmospheric Pollution				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	13.08
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	22.83
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	96.10
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	50.08
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	21.12
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

Saurabh Sharma
31-12-2021
Reviewer

31-12-2021
PremKumar
[Authorized Signatory]

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Page 2 of 2

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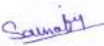
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	32.14
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ(LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ:0.01)

'#' 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
31-12-2021
Reviewer


31-12-2021
Prem Kumar
[Authorized Signatory]

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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. :E01-2112221012 Sample Reg. Date :22-12-2021 Report Date :31-12-2021 Report No. :ICE-2112311537 NABL ULR No. :TC592621000015893F 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 Date of Monitoring Time of Monitoring Purpose of Monitoring Duration of Monitoring, minutes Avg. Flow Rate of Sampling, m ³ /min Volume of air sampled, m ³ Avg. Ambient Temperature, °C	: Near Loco Shed : 15-12-2021 : 15:30 hrs : For Self Monitoring : 1440 : 1.27 : 1786.54 : 18

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
Discipline : Chemical				
Group : Atmospheric Pollution				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	7.90
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	13.17
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	89.11
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	49.24
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	16.10
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	1.5

Saurabh Sharma
31-12-2021
Reviewer

31-12-2021
PremKumar
[Authorized Signatory]

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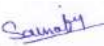
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	25.23
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ(LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ:0.01)

'#' 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
31-12-2021
Reviewer


31-12-2021
Prem Kumar
[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. :E01-2112221013 Sample Reg. Date :22-12-2021 Report Date :31-12-2021 Report No. :ICE-2112311536 NABL ULR No. :TC592621000015892F 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 Date of Monitoring Time of Monitoring Purpose of Monitoring Duration of Monitoring, minutes Avg. Flow Rate of Sampling, m ³ /min Volume of air sampled, m ³ Avg. Ambient Temperature, °C	: Near Storm Water Sump : 15-12-2021 : 16:45 hrs : For Self Monitoring : 1440 : 1.27 : 1812.62 : 15

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
Discipline : Chemical				
Group : Atmospheric Pollution				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), μg/m ³	IS:5182(P-2)	80 Max	11.98
b.	Nitrogen Dioxide(NO ₂), μg/m ³	IS:5182(P-6)	80 Max	20.06
c.	Particulate Matter (PM ₁₀), μg/m ³	IS:5182(P-23)	100 Max	94.12
d.	Particulate matter (PM _{2.5}), μg/m ³	STP/ITC/EW-01	60 Max	55.13
e.	Ozone(O ₃), μg/m ³	IS:5182(P-9)	180 Max	18.11
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

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31-12-2021
Reviewer

31-12-2021
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Page 2 of 2

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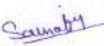
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	31.11
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ(LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ:0.01)

'#' 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
31-12-2021
Reviewer


31-12-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
Panchkula-134109 (Haryana)
Phone : (O) 0172-2561543, 2565825
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Test Report

Document QF : 2501

Page 1 of 2

Issued To	Sample Reg. No. :E01-2112221010
Nabha Power Limited	Sample Reg. Date :22-12-2021
Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala	Report Date :31-12-2021
Rajpura	Report No. :ICE-2112311534
	NABL ULR No. :TC592621000015895F
	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	: 15-12-2021
Time of Monitoring	: 15:00 hrs
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	: 1851.29
Avg. Ambient Temperature, °C	: 15

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	16.09
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	32.86
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	97.12
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	57.24
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	19.12
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

Saurabh Sharma
31-12-2021
Reviewer

31-12-2021
PremKumar
[Authorized Signatory]

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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. :E01-2112221010 Sample Reg. Date :22-12-2021 Report Date :31-12-2021 Report No. :ICE-2112311534 NABL ULR No. :TC592621000015895F Customer Ref. No. :PO Letter Dated :01.12.2020
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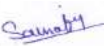
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	28.14
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ(LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ:0.01)

'#' 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
31-12-2021
Reviewer


31-12-2021
Prem Kumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
Panchkula-134109 (Haryana)
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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. :E01-2112221016 Sample Reg. Date :22-12-2021 Report Date :31-12-2021 Report No. :ICE-2112311535 NABL ULR No. :TC592621000015889F 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 Date of Monitoring Time of Monitoring Purpose of Monitoring Duration of Monitoring, minutes Avg. Flow Rate of Sampling, m ³ /min Volume of air sampled, m ³ Avg. Ambient Temperature, °C	: Village- Dabhali : 17-12-2021 : 17:45 hrs : For Self Monitoring : 1440 : 1.27 : 1808.83 : 16

Description				
Description	Ambient Air Quality Monitoring			
S.No.	Parameters	Method	Specification	Result
Discipline : Chemical				
Group : Atmospheric Pollution				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	8.41
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	13.01
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	90.11
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	50.93
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	16.22
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	1.0

Saurabh Sharma
31-12-2021
Reviewer

31-12-2021
PremKumar
[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. :E01-2112221016 Sample Reg. Date :22-12-2021 Report Date :31-12-2021 Report No. :ICE-2112311535 NABL ULR No. :TC592621000015889F Customer Ref. No. :PO Letter Dated :01.12.2020
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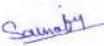
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	27.30
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ(LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ:0.01)

'#' 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
31-12-2021
Reviewer


31-12-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
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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. :E01-2112221015 Sample Reg. Date :22-12-2021 Report Date :31-12-2021 Report No. :ICE-2112311538 NABL ULR No. :TC592621000015890F Customer Ref. No.: PO Letter Dated :01.12.2020
---	--

Test Report as per :	: NAAQS 2009
General Information : Location of Sampling Point Date of Monitoring Time of Monitoring Purpose of Monitoring Duration of Monitoring, minutes Avg. Flow Rate of Sampling, m ³ /min Volume of air sampled, m ³ Avg. Ambient Temperature, °C	: Village- Dadumajra : 17-12-2021 : 17:30 hrs : For Self Monitoring : 1440 : 1.29 : 1848.76 : 15

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
Discipline : Chemical				
Group : Atmospheric Pollution				
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	11.93
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	19.39
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	94.12
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	53.03
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	19.10
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	1.1

Saurabh Sharma
31-12-2021
Reviewer

31-12-2021
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
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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. :E01-2112221015 Sample Reg. Date :22-12-2021 Report Date :31-12-2021 Report No. :ICE-2112311538 NABL ULR No. :TC592621000015890F Customer Ref. No. :PO Letter Dated :01.12.2020
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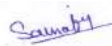
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	23.11
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ(LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ:0.01)

'#' 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
31-12-2021
Reviewer


31-12-2021
Prem Kumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
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Test Report

Document QF : 2501

Page 1 of 2

Issued To	Sample Reg. No. :E01-2112221014
Nabha Power Limited	Sample Reg. Date :22-12-2021
Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala	Report Date :31-12-2021
Rajpura	Report No. :ICE-2112311540
	NABL ULR No. :TC592621000015891F
	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	: 17-12-2021
Time of Monitoring	: 16:30 hrs
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	: 1843.70
Avg. Ambient Temperature, °C	: 15

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	13.16
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	27.10
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	92.10
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	47.98
e.	Ozone(O ₃), µg/m ³	IS:5182(P-9)	180 Max	23.14
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

Saurabh Sharma
31-12-2021
Reviewer

31-12-2021
PremKumar
[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. :E01-2112221014 Sample Reg. Date :22-12-2021 Report Date :31-12-2021 Report No. :ICE-2112311540 NABL ULR No. :TC592621000015891F Customer Ref. No. :PO Letter Dated :01.12.2020
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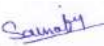
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	34.10
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ(LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	Method of Air sampling & Analysis(Method No. 822)	Not Specified	BLQ(LOQ:0.01)

'#' 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
31-12-2021
Reviewer


31-12-2021
Prem Kumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
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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. :E01-2203140769 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301902 NABL ULR No. :TC592622000005201F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

Test Report as per :	: NAAQS 2009
General Information :	
Location of Sampling Point	: AAQMS No.1
Date of Monitoring	: 10-03-2022
Time of Monitoring	: 17:00 hrs
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring,minutes	: 1440
Avg. Flow Rate of Sampling,m3/min	: 1.26
Volume of air sampled,m3	: 1754.39
Avg. Ambient Temperature,°C	: 21

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂),µg/m ³	IS:5182(P-2)	80 Max	8.03
b.	Nitrogen Dioxide(NO ₂),µg/m ³	IS:5182(P-6)	80 Max	16.35
c.	Particulate Matter (PM ₁₀),µg/m ³	IS:5182(P-23)	100 Max	90.34
d.	Particulate matter (PM _{2.5}),µg/m ³	STP/ITC/EW-01	60 Max	46.30

Saurabh Sharma
30-03-2022
Reviewer

30-03-2022
PremKumar
[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. :E01-2203140769 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301902 NABL ULR No. :TC592622000005201F Customer Ref. No. :PO Letter Dated :01.12.2020
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e.	Ozone(O ₃),µg/m ³	IS:5182(P-9)	180 Max	18.22
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	24.15
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	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, Requirement as per NAAQS 2009.
Sampling Procedure: SOP/ITC/EW/056

REMARKS :N/A

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


Saurabh Sharma
30-03-2022
Reviewer


30-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
Panchkula-134109 (Haryana)
Phone : (O) 0172-2561543, 2565825
Email : customersupport@itclabs.com
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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. :E01-2203140771 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301873 NABL ULR No. :TC592622000005224F 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	: 10-03-2022
Time of Monitoring	: 16:30 hrs
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	: 1734.57
Avg. Ambient Temperature, °C	: 22

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), μg/m ³	IS:5182(P-2)	80 Max	9.30
b.	Nitrogen Dioxide(NO ₂), μg/m ³	IS:5182(P-6)	80 Max	13.13
c.	Particulate Matter (PM ₁₀), μg/m ³	IS:5182(P-23)	100 Max	87.17
d.	Particulate matter (PM _{2.5}), μg/m ³	STP/ITC/EW-01	60 Max	41.25

Saurabh Sharma
30-03-2022
Reviewer

30-03-2022
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. :E01-2203140771 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301873 NABL ULR No. :TC592622000005224F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

e.	Ozone(O ₃),µg/m ³	IS:5182(P-9)	180 Max	19.19
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	1.6
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	23.13
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	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, Requirement as per NAAQS 2009.
Sampling Procedure: SOP/ITC/EW/056

REMARKS :N/A

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


Saurabh Sharma
30-03-2022
Reviewer


30-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
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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. :E01-2203140772 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301895 NABL ULR No. :TC592622000005222F 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	: 10-03-2022
Time of Monitoring	: 15:55 hrs
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring,minutes	: 1440
Avg. Flow Rate of Sampling,m3/min	: 1.25
Volume of air sampled,m3	: 1720.51
Avg. Ambient Temperature,°C	: 24

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂),µg/m ³	IS:5182(P-2)	80 Max	6.25
b.	Nitrogen Dioxide(NO ₂),µg/m ³	IS:5182(P-6)	80 Max	17.01
c.	Particulate Matter (PM ₁₀),µg/m ³	IS:5182(P-23)	100 Max	85.27
d.	Particulate matter (PM _{2.5}),µg/m ³	STP/ITC/EW-01	60 Max	39.98

Saurabh Sharma
30-03-2022
Reviewer

30-03-2022
PremKumar
[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. :E01-2203140772 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301895 NABL ULR No. :TC592622000005222F Customer Ref. No. :PO Letter Dated :01.12.2020
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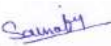
e.	Ozone(O ₃),µg/m ³	IS:5182(P-9)	180 Max	18.23
f.	Lead(As Pb),µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ:0.1)
g.	Carbon Monoxide(CO),mg/m ³	IS:5182(P-10)	4 Max	1.3
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	22.21
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	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, Requirement as per NAAQS 2009.
Sampling Procedure: SOP/ITC/EW/056

REMARKS :N/A

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


Saurabh Sharma
30-03-2022
Reviewer


30-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
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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. :E01-2203140770 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301872 NABL ULR No. :TC592622000005227F 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	: 10-03-2022
Time of Monitoring	: 15:00 hrs
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	: 1728.71
Avg. Ambient Temperature, °C	: 23

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), μg/m ³	IS:5182(P-2)	80 Max	9.95
b.	Nitrogen Dioxide(NO ₂), μg/m ³	IS:5182(P-6)	80 Max	19.28
c.	Particulate Matter (PM ₁₀), μg/m ³	IS:5182(P-23)	100 Max	93.25
d.	Particulate matter (PM _{2.5}), μg/m ³	STP/ITC/EW-01	60 Max	50.08

Saurabh Sharma
30-03-2022
Reviewer

30-03-2022
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. :E01-2203140770 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301872 NABL ULR No. :TC592622000005227F Customer Ref. No. :PO Letter Dated :01.12.2020
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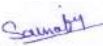
e.	Ozone(O ₃),µg/m ³	IS:5182(P-9)	180 Max	21.27
f.	Lead(As Pb),µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ:0.1)
g.	Carbon Monoxide(CO),mg/m ³	IS:5182(P-10)	4 Max	1.5
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	26.35
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	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, Requirement as per NAAQS 2009.
Sampling Procedure: SOP/ITC/EW/056

REMARKS :N/A

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


Saurabh Sharma
30-03-2022
Reviewer


30-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
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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. :E01-2203140773 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301881 NABL ULR No. :TC592622000005220F 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	: 12-03-2022
Time of Monitoring	: 12:15 hrs
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring,minutes	: 1440
Avg. Flow Rate of Sampling,m3/min	: 1.20
Volume of air sampled,m3	: 1659.56
Avg. Ambient Temperature,°C	: 23

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂),µg/m ³	IS:5182(P-2)	80 Max	8.09
b.	Nitrogen Dioxide(NO ₂),µg/m ³	IS:5182(P-6)	80 Max	19.28
c.	Particulate Matter (PM ₁₀),µg/m ³	IS:5182(P-23)	100 Max	89.12
d.	Particulate matter (PM _{2.5}),µg/m ³	STP/ITC/EW-01	60 Max	46.72

Saurabh Sharma
30-03-2022
Reviewer

30-03-2022
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. :E01-2203140773 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301881 NABL ULR No. :TC592622000005220F Customer Ref. No. :PO Letter Dated :01.12.2020
---	--

e.	Ozone(O ₃),µg/m ³	IS:5182(P-9)	180 Max	20.02
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	22.55
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	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, Requirement as per NAAQS 2009.
Sampling Procedure: SOP/ITC/EW/056

REMARKS :N/A

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


Saurabh Sharma
30-03-2022
Reviewer


30-03-2022
PremKumar
[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. :E01-2203140774 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301900 NABL ULR No. :TC592622000005207F 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	: 12-03-2022
Time of Monitoring	: 11:00 hrs
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	: 1731.09
Avg. Ambient Temperature, °C	: 23

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂), µg/m ³	IS:5182(P-2)	80 Max	12.42
b.	Nitrogen Dioxide(NO ₂), µg/m ³	IS:5182(P-6)	80 Max	23.02
c.	Particulate Matter (PM ₁₀), µg/m ³	IS:5182(P-23)	100 Max	92.14
d.	Particulate matter (PM _{2.5}), µg/m ³	STP/ITC/EW-01	60 Max	50.08

Saurabh Sharma
30-03-2022
Reviewer

30-03-2022
PremKumar
[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. :E01-2203140774 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301900 NABL ULR No. :TC592622000005207F Customer Ref. No. :PO Letter Dated :01.12.2020
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e.	Ozone(O ₃),µg/m ³	IS:5182(P-9)	180 Max	21.24
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	1.5
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	26.31
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	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, Requirement as per NAAQS 2009.
Sampling Procedure: SOP/ITC/EW/056

REMARKS :N/A

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


Saurabh Sharma
30-03-2022
Reviewer


30-03-2022
PremKumar
[Authorized Signatory]

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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. :E01-2203140775 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301882 NABL ULR No. :TC592622000005219F 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	: 12-03-2022
Time of Monitoring	: 13:30 hrs
Purpose of Monitoring	: For Self Monitoring
Duration of Monitoring,minutes	: 1440
Avg. Flow Rate of Sampling,m3/min	: 1.26
Volume of air sampled,m3	: 1719.30
Avg. Ambient Temperature,°C	: 27

Description				
Description		Ambient Air Quality Monitoring		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO ₂),µg/m ³	IS:5182(P-2)	80 Max	10.09
b.	Nitrogen Dioxide(NO ₂),µg/m ³	IS:5182(P-6)	80 Max	16.21
c.	Particulate Matter (PM ₁₀),µg/m ³	IS:5182(P-23)	100 Max	90.27
d.	Particulate matter (PM _{2.5}),µg/m ³	STP/ITC/EW-01	60 Max	48.82

Saurabh Sharma
30-03-2022
Reviewer

30-03-2022
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. :E01-2203140775 Sample Reg. Date :14-03-2022 Report Date :30-03-2022 Report No. :ICE-2203301882 NABL ULR No. :TC592622000005219F Customer Ref. No. :PO Letter Dated :01.12.2020
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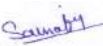
e.	Ozone(O ₃),µg/m ³	IS:5182(P-9)	180 Max	18.93
f.	Lead(As Pb),µg/m ³	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ:0.1)
g.	Carbon Monoxide(CO),mg/m ³	IS:5182(P-10)	4 Max	1.4
h.	Ammonia(NH ₃),µg/m ³	Method of Air Sampling & Analysis(Method No. 401)	400 Max	24.87
i.	Benzene (C ₆ H ₆),µg/m ³	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)
j.	Benzo (a) Pyrene Particulate Phase only,ng/m ³	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m ³	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)
m.	Mercury (as Hg),µg/m ³	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, Requirement as per NAAQS 2009.
Sampling Procedure: SOP/ITC/EW/056

REMARKS :N/A

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


Saurabh Sharma
30-03-2022
Reviewer


30-03-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
Panchkula-134109 (Haryana)
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Visit us : www.itclabs.com

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Annexure-11

Expenses Incurred for Environment Protection Measures in FY 2021-2022.

Details of Expenses Incurred for Environment Protection Measures IN FY 2021-22		
S.No.	Particulars	Amount (Rs)
A	Air Pollution	
1	Cost of Energy Consumption in ESPs/Bag Filters	93593002
2	Cost of Maintenance of Ash Silos	200000
3	Cost of operation of Dust Suppression and Extraction System	617882
4	Cost Of ESP Upgradation Cost of electrical spares for ESP maintenance	4963000
5	Cost of electrical services for ESP	2000000
6	AMC Services for ESP for FY 2021-22	2787665
7	Unit #1 Annual Overhauling Services	3883380
8	Unit#2 Capital Overhauling Services	6726002
9	ESP Spares & Consumables	2700129
10	Water Pollution	
11	Cost of Energy Consumption in STP	96617
12	Cost of Energy Consumption in ETP	6626190
13	Cost of Chemical used at ETP and STP	8331469
14	Environment Monitoring Expenses	
15	Cost of Manpower	1083000
16	Cost of Consumables	254418
17	Cost of running of Environment monitoring vehicle	875044
18	AMC/Calibration for environment monitoring equipments.	48616
19	AMC/Calibration/ maintenance of online environment monitoring equipments.	3774000
20	Consent Management	
21	Assistance for filing of application (consent fee)	752840
22	Consent to Operation Renewal Fee for Air and Water	17386600
23	Third Party MoEF&CC approved laboratory testing charges.	
24	Third Party MoEF&CC approved laboratory testing charges for AAQ,Stack,Waste water,Fly Ash, Bottom Ash etc.	356357
25	Infrastructure Development	
26	Construction of Roads	11700000
27	Provision of Wind shields	1500200
28	Provision of Wind shields at Silos	24190
29	Green Belt Development & Maintenance	
30	Development and Maintenance of Green Plants	6000000
31	Maintenance of Landscape Area	4200000
32	Salary & Wages of HSE Professionals	
33	Salary & Wages of HSE Professionals	8606688
34	Solar Harnessing Expenses	
35	Solar Harnessing and maintenance Expenses	288500
36	Housekeeping Expenses	
37	Housekeeping Expenses	18197677
38	Ash Dyke Management	
39	Expenses for Ash Dyke Maintenance(Civil)	1370000
40	Expenses for Ash Dyke Maintenance(Mechanical)	250000
41	Energy Consumption for transportation of Bottom Ash.	
42	Energy Consumption for transportation of Bottom Ash & Fly Ash	88806487
43	Training, Subscription & Legal Updates and Promotional Activities	
44	Subscription & Legal Updates	17700
45	World Environment Day Celebration.	12012
46	Disposal of Hazardous Waste	
47	Disposal of hazardous waste charges.	299301
48	E waste disposal charges.	
49	Bio-medical disposal charges.	20232
50	FGD installation	
51	Construction/installation cost of FGD	2179220871
52	Total in Rupees(₹)	2477570070

Annexure-12

**The Photograph of Main Gate
Display.**



NABHA POWER LIMITED



2 X 700 MW RAJPURA SUPER THERMAL POWER STATION

ENVIRONMENTAL DATA DISPLAY

	UNIT-1	UNIT-2	UOM
OPACITY	41.3	42.0	mg/NM3
SO2	885.9	1265.8	mg/NM3
NOX	221.9	197.5	mg/NM3



Annexure-13

Solar Harness Report.

**Solar Energy Generation Report For the Period From
October -2021 to March -2022.**

S.NO	Month	Energy (Meters) KWh
1	Oct-21	19490
2	Nov-21	13294
3	Dec-21	8144
4	Jan-22	8965
5	Feb-22	17458
6	Mar-22	20663
Total		88014

Annexure-14

Test Report of Heavy Metal Analysis in Coal.

Test Report


Document QF : 2501

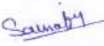
Page 1 of 2

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2203140753 Sample Reg. Date :14-03-2022 Report Date :19-03-2022 Report No. :ICE-2203191099 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)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	500gm
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in poly bag
m)	Date of Receipt	14-03-2022
n)	Date of Start	14-03-2022
o)	Date of Completion	19-03-2022
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample collected by lab rep. on 11.03.2022
s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA


Saurabh Sharma
19-03-2022
Reviewer


19-03-2022
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. :E01-2203140753 Sample Reg. Date :14-03-2022 Report Date :19-03-2022 Report No. :ICE-2203191099 Customer Ref. No.: PO Letter Dated :01.12.2020
---	---

u)	Supplied By #	NA
----	---------------	----

PART B : SUPPLEMENTARY INFORMATIONS

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

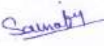
Description				
Description		Coal Sample		
S.No.	Parameters	Method	Specification	Result
	Discipline : Chemical			
	Group : Pollution & Environment			
1.	Heavy Metals			
a.	Lead as Pb, (mg/kg)	In House		3.37
b.	Mercury as Hg (mg/kg)	In House		BLQ(LOQ:1.0)
c.	Arsenic as As, (mg/kg)	In House		BLQ(LOQ:1.0)
d.	Chromium as Cr (mg/kg)	In House		6.17

'#' represents Customer Defined Fields

NOTE : NA- Not Applicable, BLQ- Below limit of Quantification, LOQ- Limit of Quantification, Purpose - For self Monitoring

REMARKS :N/A

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


Saurabh Sharma
19-03-2022
Reviewer


19-03-2022
PremKumar
[Authorized Signatory]

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Annexure-15

Test Report of Radioactivity in Coal, Fly Ash& Bottom Ash.



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

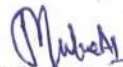
Test Report No.:	NN(D)/21-22/441	Date:	05.04.2022
Service No.	NN(D)/21-22/441(03)	Customer's Ref.	Sample Collected by Mr. Amit Kumar on dtd 03.03.2022
Customer's name and address: M/s Nabha Power Limited Post Box 28, Near village Nalash Rajpura, Distt. Patiala 140401, Punjab Kind attn.: Mr. Hemant Nimkar			
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	
03.03.2022	04.04.2022	3	

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

Page 3 of 3

.....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)

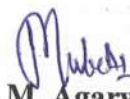
TEST REPORT

Test Report No.:	NN(D)/21-22/441	Date:	05.04.2022
Service No.	NN(D)/21-22/441(01)	Customer's Ref.	Sample Collected by Mr. Amit Kumar on dtd 03.03.2022
Customer's name and address:			
M/s Nabha Power Limited, Post Box 28, Near village Nalash Rajpura, Distt. Patiala 140401, Punjab Kind attn.: Mr. Hemant Nimkar			
Sample Description	Coal		
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	
03.03.2022	04.04.2022	3	

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

Page 1 of 3



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)

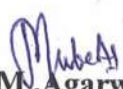
TEST REPORT

Test Report No.:	NN(D)/21-22/441	Date:	05.04.2022
Service No.	NN(D)/21-22/441(02)	Customer's Ref.	Sample Collected by Mr. Amit Kumar on dtd 03.03.2022
Customer's name and address: M/s Nabha Power Limited Post Box 28, Near village Nalash Rajpura, Distt. Patiala 140401, Punjab Kind attn.: Mr. Hemant Nimkar			
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	
03.03.2022	04.04.2022	3	

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

Page 2 of 3


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

Annexure-16

Test Report of Surface Water Quality.

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. :E01-2201271548 Sample Reg. Date :27-01-2022 Report Date :03-02-2022 Report No. :ICE-2202030391 NABL ULR No. :TC592622000002027F Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

Test Report as per IS: BIS Specification IS:10500-2012	With Amendment No.(s): 01 to 03
---	--

PART A : PARTICULARS OF SAMPLE SUBMITTED

a)	Nature of Sample #	Surface Water
b)	Sample Condition	Good
c)	Grade / Variety / Type / Class / Size etc.	NA
d)	Brand Name	NA
e)	Declared Values,if any	NA
f)	Code No.	
g)	Batch Number #	NA
h)	D.O.M #	NA
i)	Date of Expiry #	NA
j)	Sample Quantity #	2 Ltr
k)	Batch Size/Location #	NA
l)	Mode of Packing	Packed in bottles
m)	Date of Receipt	27-01-2022
n)	Date of Start	27-01-2022
o)	Date of Completion	03-02-2022
p)	Seal (Intact/Not Intact/Unsealed)	NA
q)	IO'S Signature (Signed/Unsigned)	Unsigned
r)	Any Other Information	Sample Collected by lab rep. Mr. vinay on 25.01.2022


Vikrant
03-02-2022
Reviewer


03-02-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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

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Page 2 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2201271548 Sample Reg. Date :27-01-2022 Report Date :03-02-2022 Report No. :ICE-2202030391 NABL ULR No. :TC592622000002027F Customer Ref. No. :PO Letter Dated :09.07.2021
---	--

s)	Test Request Submitted By	Nabha Power Limited-Rajpura (Punjab)
t)	Manufactured By #	NA
u)	Supplied By #	NA

PART B : SUPPLEMENTARY INFORMATIONS

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

Description					
Description		Coloured liquid with Suspended particles			
S.No.	Parameters	Method	Acceptable Limit	Permissible Limit	Result
	Discipline : Chemical				
	Group : Water				
1.	Organoleptic &Physical Parameter				
a.	Colour (Hazen)	IS:3025(Part4):1983(RA:2017)amd. no1	5 Max.	15 Max.	10
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	7.95
d.	Turbidity(NTU)	IS:3025(Part 10):1984(RA:2017)	1 Max.	5 Max.	16.5
e.	Total Dissolved Solids,(mg/l)	IS:3025(Part 16):1984(RA:2006)	500 Max.	2000 Max.	172

V. Saini

Vikrant
03-02-2022
Reviewer

PremKumar

03-02-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)
Panchkula-134109 (Haryana)
Phone : (O) 0172-2561543, 2565825
Email : customersupport@itclabs.com
Visit us : www.itclabs.com

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Test Report

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Page 3 of 3

Issued To Nabha Power Limited Near Village: Nalash, P.B. No.28, Rajpura, Distt. Patiala Rajpura	Sample Reg. No. :E01-2201271548 Sample Reg. Date :27-01-2022 Report Date :03-02-2022 Report No. :ICE-2202030391 NABL ULR No. :TC592622000002027F Customer Ref. No.: PO Letter Dated :09.07.2021
---	--

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.	8.3
b.	Fluoride as F (mg/l)	IS:3025(Part 60):2008 amd. no 1(RA:2013)	1.0 Max.	1.5 Max.	0.2
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)
f.	Sulphate(as SO ₄) (mg/l)	IS:3025(Part 24):1986(RA:2014)	200 Max.	400 Max.	34.4
g.	Total Alkalinity(as CaCO ₃)(mg/l)	IS:3025(Part 23)	200 Max.	600 Max.	79.1
h.	Total Hardness(as CaCO ₃), (mg/l)	IS 3025 (Part 21)	200 Max.	600 Max.	97.9

'#' represents Customer Defined Fields

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

REMARKS :N/A

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

V. Saini

Vikrant
03-02-2022
Reviewer

PremKumar

03-02-2022
PremKumar
[Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

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

Panchkula-134109 (Haryana)

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