



NABHA POWER LIMITED

Mailing Address: Aspire Tower, 4th floor, Plot No 55, Industrial and Business Park, Phase-I,
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NPL/MoEF/EC/Jul/HSE/19-20/07

Date: 1.07.2019

To,

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

Ref: Environmental Clearance No J-13011/44/2008- IA-II (T) dated 3rd October 2008 and as Amended on dated 15th November 2010.

Sub: Half Yearly Environment Clearance Compliance Report for the Period of 1st Oct 2018 to 31st March 2019.

Dear Sir,

Please find enclosed Half Yearly Environment Clearance Compliance Report of M/s Nabha Power Ltd., Vill. Nalash, Distt- Patiala (Punjab) for the period from 1st October 2018 to 31st March 2019.

Thanking You,

Yours Sincerely,

For Nabha Power Limited



(Rajiv Bhandari)
DGM-HSE

भारत सरकार /Govt. of India
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forests & Climate Change
बेज नं. 24-25, सेक्टर 31-ए
Bays No. 24-25, Sec- 31 A
चण्डीगढ़ Chandigarh



Encl. As above.

Cc: (i) The Executive Environment Engineer, Regional Office, Patiala, Ground Floor, Vatavaran Bhawan, Nabha Road, Patiala
(ii) In-charge-Central Pollution Control Board, Zonal Office (North) PICUP Bhawan Vibhuti Khand, Gomti Nagar, Lucknow (UP) - 226 010

Wholly Owned Subsidiary of L&T Power Development Limited
Corporate Office: L&T House, N M Marg, Ballard Estate, Mumbai-400 001
Regd office: PO Box No -28, Near Nalash, Rajpura-140401, Punjab
CIN No: U40102PB2007PLC031039

SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

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



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

Submitted to:

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

**Regional Office (Northern Region)
Chandigarh-160030**

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

Submitted By:

**NABHA POWER LIMITED
VILL. NALASH**

PATIALA (PUNJAB)

Period: October-2018 to March-2019

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Introduction

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

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

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

SALIENT FEATURES OF NABHA POWER LTD.

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

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

COMPLIANCE REPORT FOR THE PERIOD OF OCT-2018 to MAR-2019

S. No.	MOEF Conditions	Compliance Status
1.	The total land requirement for the project shall be restricted to 1278 acres.	The land requirement for 1400 MW has been restricted within 1278 acres only.
2.	Prior clearance from the competent authority shall be obtained for locating the proposed power plant in proximity (about 3 kms) of the defence installation. A copy of the same shall be furnished to the ministry and the regional office of this ministry within one month from the date of issue of this clearance letter.	NOC from Ministry of defence & AAI obtained on 25 th May, 2009, Ref No.:No. 21(7)/2008/D(Coord) & 22 nd July, 2008, Ref No.: No. AAI/20012/664/ 2008-ARI (NOC) respectively.
3.	Sulphur & ash contents in the coal to be used in the project shall not exceed 0.5% & 34%.	Sulphur & ash contents in the coal being used are below 0.5% & 34%. Respectively. The Testing Reports are attached here as Annexure 1 & 2 .
4.	A bi-flue stack of height 275 m shall be provided with continuous online monitoring equipment for SOx, NOx & particulate matter. Exit velocity of flue gas should not be less than 25 m/sec.	Continuous online monitoring equipment are functional at 275 Mtr. stack on both the flues attached to Boiler 1 & Boiler 2 and monitoring of PM, Sox & Nox. is being done. As per EC validity extension dated 5.02.2014, exit velocity of flue gases shall not be less than 22 m/s therefore the exit velocity of flue gas is being maintained more than 22 m/sec in both the units. The Stack Emission Monitoring Reports from MoEF & CC approved laboratory is attached here as Annexure-3 .
5.	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure particulate emission doesn't exceed 50 mg/m ³ .	The ESP's attached to Boiler 1 & 2 are functional and have efficiencies more than 99.99%. The SPM emissions are < 50 mg/Nm ³ . The stack Emission Monitoring Reports from MoEF & CC approved laboratory is attached here as Annexure-3
6.	Space provision shall be kept for retrofitting for FGD, if required at later date.	Space provision for FGD has already been earmarked
7.	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	The Dust extraction system & Dust suppression system (water sprinklers) is operational in the coal handling area, ash handling and at all transfer points. The photographs of the same is attached here as Annexure-4
8.	Fly ash to be collected in dry form in storage facility (silos) shall be provided. 100% utilization of fly ash shall be achieved from day one. Unutilized fly ash in emergency and bottom ash shall be disposed in ash pond and bottom ash in conventional slurry mode. Mercury and other heavy metals (Hg, Cr, Pb etc.) will be monitored in bottom ash and fly ash as also in the effluent emanating from ash pond.	Fly Ash Silos (3 Nos.) are fully operational. The utilization report of Fly ash is being submitted with the Regional Office, PPCB on monthly basis. However, the same is attached here as Annexure-5 Monitoring of heavy metals is being done for both bottom & fly ash and reports are submitted with the Regional Office, MOEF & PPCB on 6 monthly basis. Latest reports are attached as Annexure-6 .
9.	Ash pond shall be lined with HDPE lining. Adequate safety measures shall also be implemented to protect ash dyke from getting breached.	Ash Pond bed is provided with HDPE lining (500 micron thick) over 50 mm thick sand cushion and top of HDPE liner is protected with 300 mm earth cover
10.	Closed cycle cooling system with cooling towers shall be provided. Effluents shall be treated as per the prescribed norms.	Complied.

11.	The treated effluents conforming to the prescribed standard shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during Monsoon. Arrangement shall be made that effluent & storm water do not get mix.	The Power plant is based on Zero Discharge (ZLD) concept and the treated effluents conforming to prescribed standards are being re- circulated and reused within the Plant. There is no discharge outside the plant boundary.
12.	A Sewage Treatment Plant shall be provided, and treated sewage shall be used for raising green belt/plantation.	The Sewage treatment plant of 50 KLD capacities is in operation. The treated water is being used for Green belt development/Plantation. The treated effluent report is attached as Annexure-7
13.	Rain water harvesting should be adopted. Central Ground Water Authority/board shall be consulted for finalization of appropriate rain water harvesting technology with in a period of three months from the date of clearance and details shall be furnished.	Rain water harvesting pits have been made as per the Rain water harvesting scheme approved by CGWA.
14.	Adequate safety measures shall be provided in plant area to check/minimize spontaneous fire in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry at Chandigarh.	The safety measures submitted to MOEF vide letter ref: NPL/SKN/MOEF/1423 dated: 28 th June 2012 have been implemented to check/minimize spontaneous fire in coal yard.
15.	Provision shall be made for the housing of construction labor 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 labor such as toilets, STP, safe drinking water, medical health care etc.
16.	Storage facilities for liquid fuel such as LDO and HFO/LSHS shall be made in the plant area where risk is minimum to the storage facilities. Onsite and off-site disaster management plan shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modification required, if any shall be incorporated in the DMP.	The Storage tanks for LDO & HFO storage have been made after necessary risk assessment. On site and off-site disaster management plan is prepared and the adequacy of the Plan is being tested on regular basis through conducting mock drills.
17.	Regular monitoring of ground water in and around ash pond area shall be carried out, records maintained and six-monthly reports shall be furnished to Regional Office, Chandigarh.	Regular monitoring is being done and reports are being submitted to MOEF & PPCB on six monthly basis. Latest reports are attached as Annexure-8
18.	A green belt of adequate width and density shall be developed around plant periphery covering about 1/3 rd of project area preferably with local species.	2.5 Lakh trees already planted @2500/ha with local species. The Green Belt Development Report is attached as Annexure-9
19.	Activities under CSR shall be enhanced with proper financial allocation. Details of these activities shall be submitted to the Regional Office of the Ministry, SPCB and the Ministry.	Rs. 4.40 crore has been spent during 2018-19. Details is attached as Annexure-10 .
20.	First aid & sanitation arrangement shall be made for the drivers and other contract workers during construction phase.	First aid centre & adequate sanitation arrangement for the drivers and other contract workers are in place.
21.	Noise level emanating from turbines shall be limited to 75 dB (A). For people working in the high noise area, requisite personal protective equipment like Earplug/ear muffs etc. shall be provided. Workers engaged in noisy area such as turbine area, air compressors etc. shall be periodically examined to maintain audiometry record and for any hearing loss including shifting to non-noisy/less noisy areas.	The Noise levels are maintained well below the prescribed standards. PPE's are being provided to all the workers depending upon the task being performed. Medical examination of the workers engaged in high noise area is being done on six monthly basis and records being maintained.

22.	Regular monitoring of ground level concentration of SO ₂ , NO _x , SPM, RSPM and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of the monitoring shall be decided in consultation with SPCB. Periodic report to be submitted to Regional office of this Ministry.	Monitoring reports are regularly being submitted to Regional office of Ministry and PPCB. Latest report are attached as Annexure-11
23.	The project proponent shall advertise in two local newspaper widely circulated in the region around the project, one of which shall be in the vernacular language of the locality/Municipal area/Gram Panchayat concerned and on the company's website within seven days from the date of clearance letter, informing that the project has been accorded environment clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at website of the ministry of Environment and forests at http://envfor.nic.in .	Complied.
24.	A separate Environment Management Cell with qualified staff to be set up for implementation of the stipulated environmental safeguards.	EMC comprising of qualified staff with adequate experience and knowledge is in place to cater environmental responsibilities.
25.	Half yearly report on status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/Regional Office/CPCB/SPCB.	Complied.
26.	Regional office of the Ministry of Environment & Forests located at Chandigarh will monitor implementation of stipulated conditions. A complete set of documents including EIA report & EMP report along with additional information submitted from time to time shall be forwarded to the regional office for their use during monitoring.	Complied.
27.	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes & year wise expenditure should be reported to Ministry.	Being Complied
28.	The project authorities shall inform the regional office as well as the Ministry regarding the date of financial closure and final approval of project by concerned authorities and the dates of start of land development work and commissioning of plant.	Plant is in Operation and generation capacity is 1400 MW
29.	Full co-operation should be extended to the scientists/officers from the Ministry/Regional office of the Ministry at Chandigarh/the CPCB/the SPCB who would be monitoring compliance of environmental status.	The NPL is providing full co-operation to the scientists/officers from the Ministry/Regional office of the Ministry at Chandigarh/the CPCB/the SPCB who are monitoring compliance of environmental status, time to time.
30.	No additional coal consumption beyond 5.8 MTPA (at 85 % PLF) earlier envisaged for 2 x 660 MW and no additional land for the enhanced capacity shall be permitted.	Being Complied.

31.	The project proponent shall upload the status of compliance of the conditions stipulated in the environmental clearance issued vide Ministry's letter of even no. dated 03.10.2008, in its website and update periodically and also simultaneously send the same by email to regional office of Ministry of Environment and Forests.	NPL website is live & the compliance reports are uploaded periodically on website. Website address: http://www.lntnabhapower.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.	Being Complied.

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

S. No.	MOEF Conditions	Compliance Status
33	Harnessing solar power within the premises of the plant particularly at the available roof tops shall be under taken and status of implementation shall be submitted periodically to regional office of ministry	Solar panels on field hostel roof, Clarifier area, CHP and at DM plant area has already been provided.
34	A long-term study on radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio-activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Radioactive and Heavy metal contents in Coal report is attached as Annexure-12
35	Exit velocity of flue gases shall not be less than 22 m/s. Mercury emissions from stack shall also be monitored on periodic basis.	The exit velocity of flue gases is more than 22 m/s. Mercury emissions from the stack is regularly monitored and the reports are being submitted to MOEF&CC on periodic basis. Latest report is attached as Annexure-3
36	Fugitive emissions shall be controlled to prevent impact on agriculture or non-agriculture land.	Adequate measures to control fugitive emissions already in place.
37	No ground water shall be extracted for use in operation of power plant even in lean season.	Complied.
38	Source sustainability of water requirement shall be carried out by an institute of repute. The study shall also specify the source of water for meeting the requirement during lean season. The report shall be submitted to the Regional Office of ministry within six months.	The Source Sustainability Study of water was conducted before granting the EC by MOEF to know the source of fulfilment of water requirement by the purposed Plant. For Nabha Power Limited the source of water is Bhakhra Canal and necessary permissions in this regard was taken from Irrigation Department, Punjab and was submitted with your kind office before grant of Environmental Clearance. When we had applied for Extn. of EC, our plant was already Commissioned, and we were having valid Consent to Operate from State Pollution Control Board. Therefore, the said condition is not applicable on us.
39	Hydro geological study of the area shall be reviewed annually and report submitted to the ministry. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/ operation of the power plant.	No Ground Water abstraction is being done. We are only using Canal water for generation of Power. Therefore, the said condition is not applicable on us.
40	Minimum required environment flow suggested by the competent authority of the state government shall be maintained in the Channel / Rivers (as applicable) even in lean season.	Agreed
41	C.O.C of 5.0 shall be adopted	Adopted and being complied.

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	Agreed
43	Green belt consisting of 3 tiers of plantations of native species around the plant and at least 100m width shall be raised. Wherever 100m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 75 %.	Complied. The Green Belt Development Report is attached as Annexure-9
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 neighboring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	<p>For villages NPL under the WB scheme helped building of 3 Overhead water tanks. State govt has already implemented scheme of Overhead tanks in all NPL catchment villages. RO water Purifiers have been installed in most of the villages by the state govt.</p> <p>For schools All schools in NPL catchment area have drinking water facilities linked to OH tanks / deep Borewells. NPL supported Govt. Schools/Aganwaries by providing sitting desks, learning tools, renovation of buildings/pathways/boundary walls etc. Additional Class room have been constructed in govt. schools as per need. Libraries have been established in Govt Schools to inculcate the habit of book reading & also to increase general knowledge level.</p>
47	An amount of Rs 22 Crores shall be earmarked as one time capital cost for CSR program. Subsequently a recurring expenditure of Rs 4.4 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with the road map for implementation.	<p>CSR spent of last five years</p> <ul style="list-style-type: none"> - 2014-15 : 4.56 cr - 2015-16 : 4.43 cr - 2016-17 : 4.47 cr - 2017-18 : 4.41 cr - 2018-19 : 4.40 cr
48	CSR scheme should address Public Hearing issues and shall be undertaken based on need based assessment in and around villages within 5.0 km of the site and in constant consultation with the village Panchayat and District administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall also be undertaken. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program. Company shall provide separate budget for community development activities and income generating programs. Vocational training program for possible self-employment and jobs shall be imparted to identify villagers free of cost.	<p>Compiled. Presently working in 49 villages (radius of 5 kms). All schemes are being implemented in the target villages in coordination with village panchayats.</p> <p>Coordination meeting held in February with newly elected 49 villages to discuss and share the NPL CSR initiatives.</p> <p>Skill Training (Girls) – Being imparted free of cost through 11 vocational training centers. Courses being run include Beautician, Tailoring, and Embroidery.</p> <p>NPL supported a group of 23 girl students from surrounding village for 3 months Tally course at National Small-scale Industries Corporation (NSIC) Rajpura.</p>

		Local youth are being given preference for jobs in plant as per their skills, qualification and criteria set for the job.
49	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	- In-built monitoring through a 5-member CSR committee chaired by Sr. Plant Official which meets quarterly to discuss and implement projects identified. - Social Audit got done through Punjab University.
50	An Environmental cell shall be created at the project site itself and shall be headed by an officer of the company of appropriate seniority and qualification. It shall be ensured that the head of the cell shall directly report to the Head of the organization.	Environmental Cell Headed by DGM-HSE is already in place who directly reports to the Head of Organisation.
51	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Regular monitoring of ground water quality including heavy metals is being carried out regularly in and around the Ash Dykes. Piezometer wells are established around the ash pond area and being regularly monitored. Latest reports are attached as Annexure-8
52	Monitoring of the surface quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	No Ground Water is being abstracted as we are using Canal water for generation of Power. The quality and quantity of the canal water is monitored, and records are being maintained. We are already monitoring Heavy metals in Ground Water by taking sample thru Piezometer and submitting the respective reports to Regional office of the ministry at Chandigarh. Latest reports are attached as Annexure-8
53	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Complied. Last Environmental Report was submitted On 28.09.2018 with Regional Office of the Ministry at Chandigarh and PPCB, Patiala.
54	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	HSE Policy has been framed and accordingly officers have been designated for achieving the objectives by adherence to the Policy. We are certified for Integrated Management System requirements (ISO 9001, 14001 & 45001 & 50001)

Annexure – 1

Test Report of Sulphur % in Coal



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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

TEST REPORT



Test Report No. : EL080319GS003/01		EC-19-2/13963	Page No 1/1
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101		
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018		
Type of Sample	Coal		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	08/03/2019		
Sampling Location	From Coal Pile		
Packing, Markings, Seal & Quantity	Poly Bag Marked 'Coal' 1kg approx.		
Date of Receipt of Sample	08/03/2019		
Period of Analysis	08/03/2019 To 12/03/2019		
Date of Reporting	12/03/2019		
Sample Observation	Blackish Powder		

RESULTS

S.No.	Test Parameter	Unit	Results	Standard	Test Method
1	Sulphur as SO ₂	%	0.38	0.5*	Lab SOP No. EL/SOP/C/01

Remarks (if any) Please refer terms & conditions overleaf
*Client's Specification

End of Report

Lab Incharge

Dr. Roopak Kumar
Authorized Signatory-Chemical

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

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

Annexure- 2

Test Report of Ash % in Coal

Annexure-2

Details of Average Ash Content in Coal in %

Month	Average Ash Content in Coal in %
Oct-18	33.86
Nov-18	32.79
Dec-18	32.59
Jan-19	32.00
Feb-19	30.19
Mar-19	31.02
Average	32.08

Annexure- 3

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



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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

TEST REPORT



Test Report No. : EL271218GA004	81-11-19/184.53	Page No. 1/2
Customer	Nabha Power Limited PO Box 28 Near Village-Nafash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018	
Type of Sample	Stack Emission	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	26/12/2018	
Sampling Location	Boiler (Unit-2)	
Sampling Protocol	IS: 11255 & CPCB Guidelines	
Date of Receipt of Sample	27/12/2018	
Period of Analysis	27/12/2018 To 29/12/2018	
Date of Reporting	31/12/2018	
Testing Protocol	EPA: GSR 176 (E), April 2, 1996	
Environmental Conditions	--	

Source of emission	Stack attached to Boiler
Identification/Make	Boiler (Unit-2)
Capacity	2322 TPH
Type of Fuel Used	Coal
Fuel Quantity/hour	340 ton/hr
APCD Details (If provided)	Electrostatic, Precipitator & Cyclone
Stack Identification	Single
Stack Description (Shape & Material)	Circular & Metal
Diameter of Stack (m/inch/mm)	7.5m
Sampling Port hole/Platform	Permanent
Height of Stack from ground level (m)	275m
Height of Stack from nearest roof top (m)	--
Stack Temperature (°K)	401
Sampling Time (Minutes)	90
Stack Velocity (m/sec)	23.1

Not Valid for Consent Purpose

Format No. F/5.10-01/01

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

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



Test Report No. :EL271218GA004

EC-11-19/18463

Page No. 2/2

RESULTS

S.No.	Test Parameter	Unit	Result	Limits	Method
1	Particulate Matter (PM) at 12% CO ₂	mg/Nm ³	38	50	IS 11255 Part-1:1985 (2014)
2	Sulphur Dioxide (SO ₂)	ppm	410	—	Lab SOP: EL/SOP/SE/12
3	Oxides of Nitrogen	ppm	229	—	Lab SOP: EL/SOP/SE/12
4	Carbon Dioxide (CO ₂)	%	9.2	—	Lab SOP: EL/SOP/SE/12
5	Carbon Monoxide (CO)	mg/Nm ³	19	—	Lab SOP: EL/SOP/SE/12
6	Mercury (Hg) Particulate Phase	mg/Nm ³	0.013	0.03	USEPA Method-29

Remarks (if any) Please refer "Terms & Conditions" on back side of Test Report (Page-1).

End of Report

For Eco Laboratories & Consultants Pvt. Ltd.

Lab Incharge

Authorized Signatory

Not valid for any other purpose



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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

TEST REPORT



Test Report No. : EL271218GA005	EC-11-19/18457	Page No. 1/2
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018	
Type of Sample	Stack Emission	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	26/12/2018	
Sampling Location	Boiler (Unit-1)	
Sampling Protocol	IS: 11255 & CPCB Guidelines	
Date of Receipt of Sample	27/12/2018	
Period of Analysis	27/12/2018 To 29/12/2018	
Date of Reporting	31/12/2018	
Testing Protocol	EPA: GSR 176 (E), April 2, 1996	
Environmental Conditions	--	

Source of emission	Stack attached to Boiler
Identification/Make	Boiler (Unit-1)
Capacity	2322 TPH
Type of Fuel Used	Coal
Fuel Quantity/hour	340 ton/hr
APCD Details (If provided)	Electrostatic, Precipitator & Cyclone
Stack Identification	Single
Stack Description (Shape & Material)	Circular & Metal
Diameter of Stack (m/inch/mm)	7.5m
Sampling Port hole/Platform	Permanent
Height of Stack from ground level (m)	275m
Height of Stack from nearest roof top (m)	--
Stack Temperature (°K)	398
Sampling Time (Minutes)	90
Stack Velocity (m/sec)	22

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02

Form No. F/5.104-01/011

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

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Test Report No. :EL271218GA005

EL-26-19/13457

Page No. 2/2

RESULTS

S.No.	Test Parameter	Unit	Result	Limits	Method
1	Particulate Matter (PM) at 12% CO ₂	mg/Nm ³	30	50	IS 11255 Part-1:1985 (2014)
2	Sulphur Dioxide (SO ₂)	ppm	403	--	Lab SOP: EL/SOP/SE/12
3	Oxides of Nitrogen	ppm	222	--	Lab SOP: EL/SOP/SE/12
4	Carbon Dioxide (CO ₂)	%	9.6	--	Lab SOP: EL/SOP/SE/12
5	Carbon Monoxide (CO)	mg/Nm ³	21	--	Lab SOP: EL/SOP/SE/12
6	Mercury (Hg) Particulate Phase	mg/Nm ³	0.016	0.03	USEPA Method-29

Remarks (if any) Please refer "Terms & Conditions" on back side of Test Report (Page-1).

End of Report

For Eco Laboratories & Consultants Pvt. Ltd.

Lab Incharge

Authorized Signatory



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL030419GA001		Page No. 1/2
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Distt Patiala , Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018	
Type of Sample	Stack Emission	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	02/04/2019	
Sampling Location	Boiler (1)	
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	
Date of Receipt of Sample	03/04/2019	
Period of Analysis	03/04/2019 to 06/04/2019	
Date of Reporting	06/04/2019	
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	
Environmental Conditions	--	

Source of emission	Stack attached to Boiler
Identification/Make	Boiler (1)
Capacity	2322 TPH
Type of Fuel Used	Coal
Fuel Quantity/hour	340 ton/hr
APCD Details (If provided)	Electrostatic, Precipitator & Cyclone
Stack Identification	Single
Stack Description (Shape & Material)	Circular & Metal
Diameter of Stack (m/inch/mm)	7.5m
Sampling Port hole/Platform	Permanent
Height of Stack from ground level (m)	275m
Height of Stack from nearest roof top (m)	--
Stack Temperature (°K)	396
Sampling Time (Minutes)	89
Stack Velocity (m/sec)	22.9

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Dr. Raj Singh
Authorized Signatory-Chemical

Form No. E/03/15-11/2019

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Test Report No. :EL030419GA001


Page No. 2/2


RESULTS

S.No.	Test Parameter	Unit	Result	Limits	Method
1	Particulate Matter (PM) at 12% CO ₂	mg/Nm ³	40	50	IS 11255 Part-1:1985 (2014)
2	Sulphur Dioxide (SO ₂)	ppm	590	--	Lab SOP: EL/SOP/SE/12
3	Oxides of Nitrogen	ppm	165	--	Lab SOP: EL/SOP/SE/12
4	Carbon Dioxide (CO ₂)	%	13.4	--	Lab SOP: EL/SOP/SE/12
5	Carbon Monoxide (CO)	mg/Nm ³	4.8	--	Lab SOP: EL/SOP/SE/12
6	Mercury as Particulate Phase (Hgp)	mg/Nm ³	BDL	0.03	USEPA Method-29

Remarks (if any) BDL Below Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).

End of Report


Lab Incharge


Dr. Rai Singh
Authorized Signatory-Chemical

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Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL080319GA006		Page No. 1/2
Customer	Nabha Power Limited PO Box 28, Near Village-Nafash Distt Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018	
Type of Sample	Stack Emission	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	07/03/2019	
Sampling Location	Boiler (2)	
Sampling Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	
Date of Receipt of Sample	08/03/2019	
Period of Analysis	09/03/2019 to 14/03/2019	
Date of Reporting	14/03/2019	
Testing Protocol	IS: 11255 & CPCB Guidelines (LATS/80/2013-14)	
Environmental Conditions	--	

Source of emission	Stack attached to Boiler
Identification/Make	Boiler (2) (MHI)
Capacity	2322 TPH
Type of Fuel Used	Coal
Fuel Quantity/hour	340 ton/hr
APCD Details (If provided)	Electrostatic, Precipitator & Cyclone
Stack Identification	Single
Stack Description (Shape & Material)	Circular & Metal
Diameter of Stack (m/inch/mm)	7.5m
Sampling Port hole/Platform	Permanent
Height of Stack from ground level (m)	275m
Height of Stack from nearest roof top (m)	--
Stack Temperature (°K)	400
Sampling Time (Minutes)	94
Stack Velocity (m/sec)	22.5

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Dr. Raj Singh
Authorized Signatory - Chemical

Test Report No. EL080319GA006

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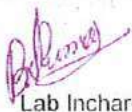
Test Report No. : EL080319GA006

Page No. 2/2


RESULTS

S.No.	Test Parameter	Unit	Result	Limits	Method
1	Particulate Matter (PM) at 12% CO ₂	mg/Nm ³	43	50	IS 11255 Part-1:1985 (2014)
2	Sulphur Dioxide (SO ₂)	ppm	490	--	Lab SOP: EL/SOP/SE/12
3	Oxides of Nitrogen	ppm	175	--	Lab SOP: EL/SOP/SE/12
4	Carbon Dioxide (CO ₂)	%	10.8	--	Lab SOP: EL/SOP/SE/12
5	Carbon Monoxide (CO)	mg/Nm ³	19	--	Lab SOP: EL/SOP/SE/12
6	Mercury as Particulate Phase (Hgp)	mg/Nm ³	BDL	0.03	USEPA Method-29

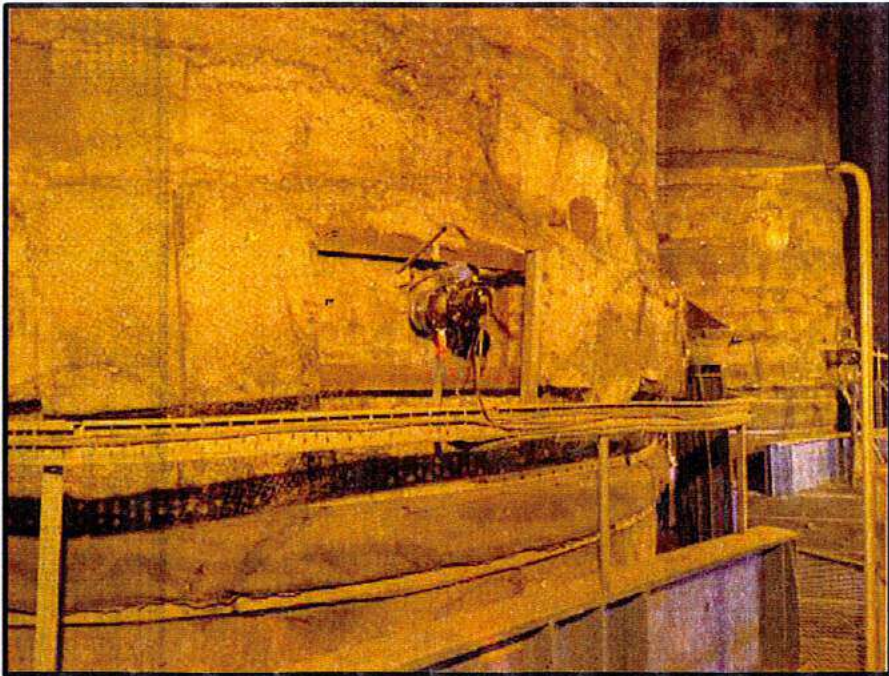
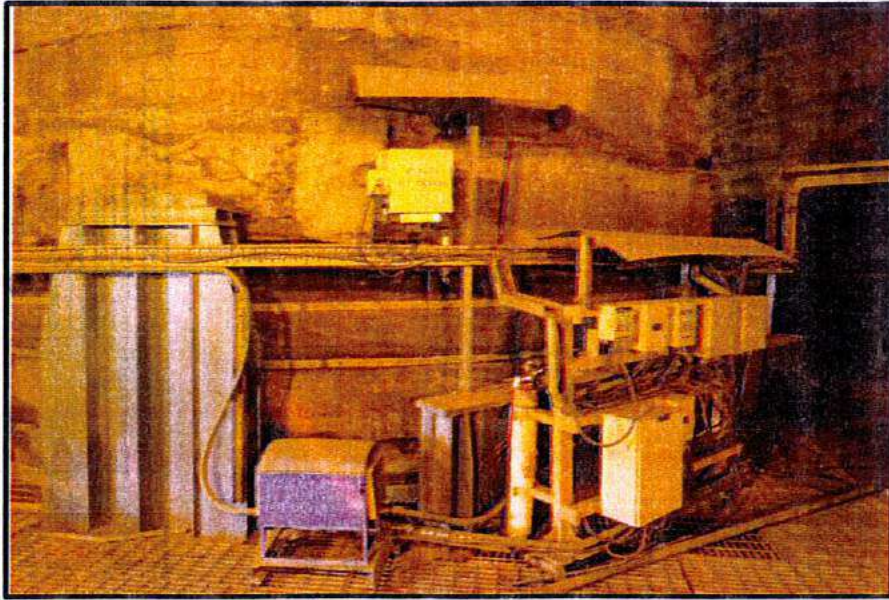
Remarks (if any) BDL Below Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).

****End of Report****
Lab Incharge

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Dr. Rai Singh
Authorized Signatory-Chemical

Annexure-3

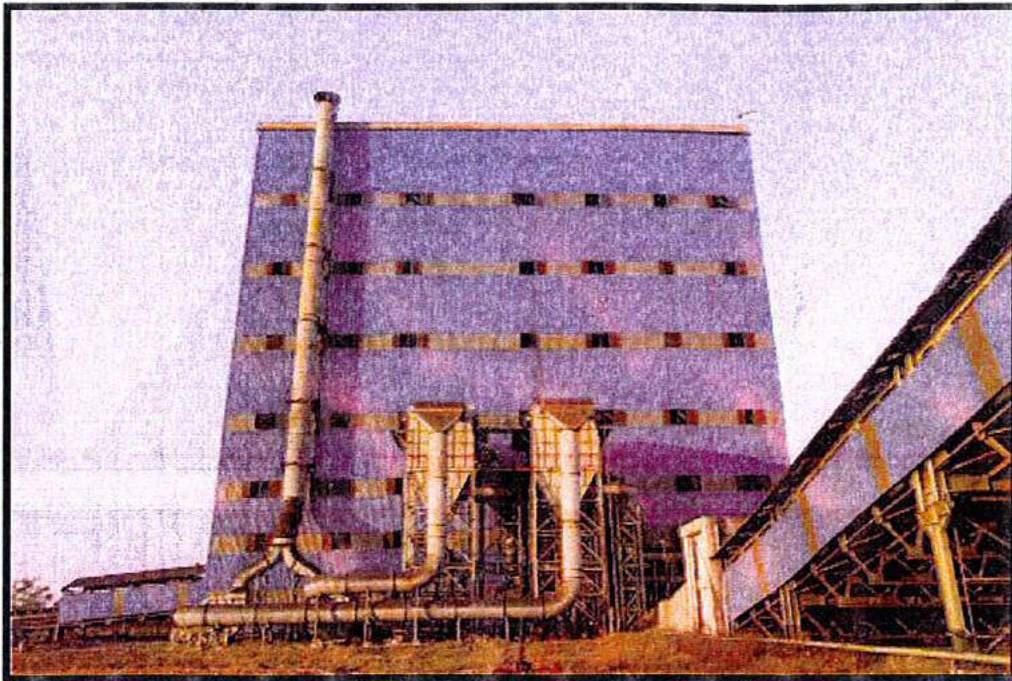


Continuous emission monitoring system installed at main stack for measurement of Particulate Matter & Gaseous Emissions.

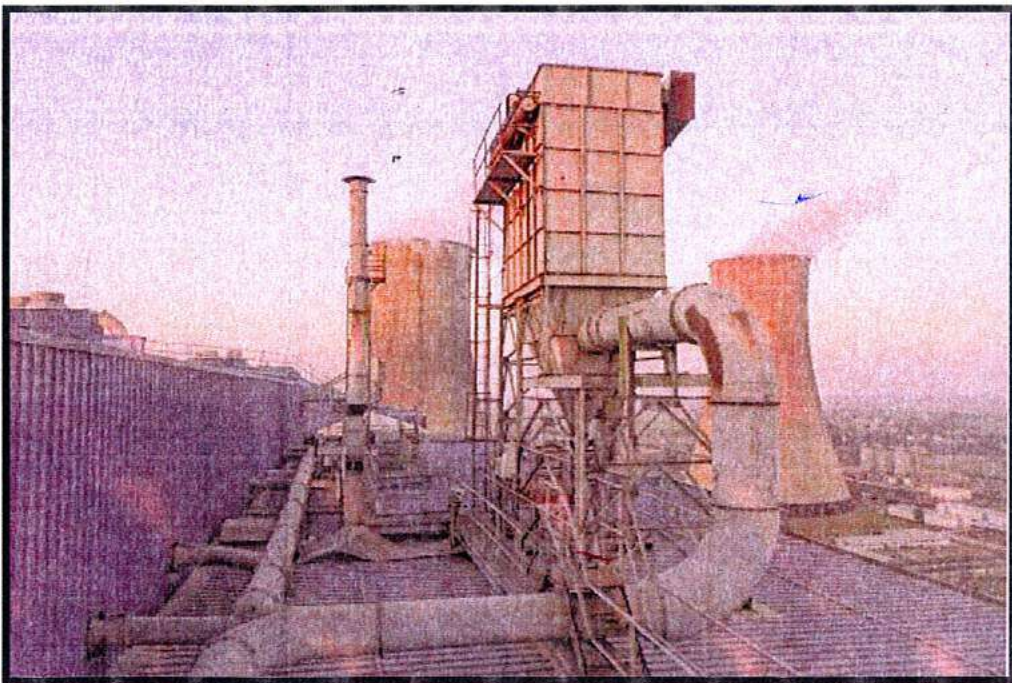
Annexure- 4

Measures taken to control fugitive emissions

Annexure-4



Dust Extraction System at Crusher House



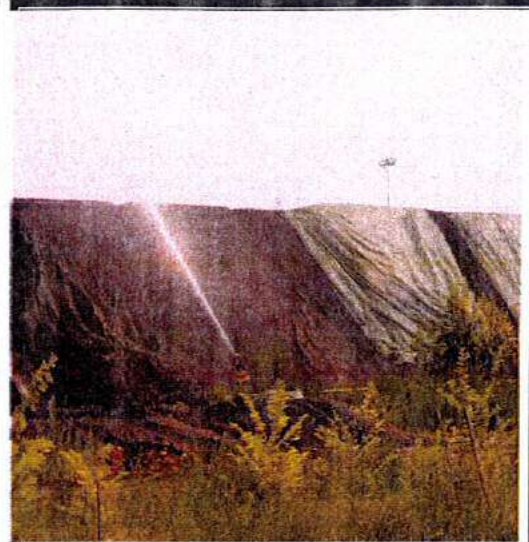
Dust Extraction System at Bunker

Annexure-4

1. Measures taken to control fugitive emissions during coal handling



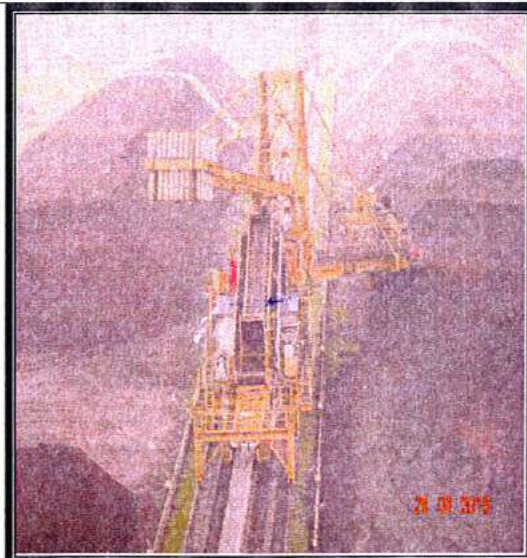
Covered conveyors for transfer of coal from Wagon tippler to coal bunkers for abatement of fugitive emissions



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

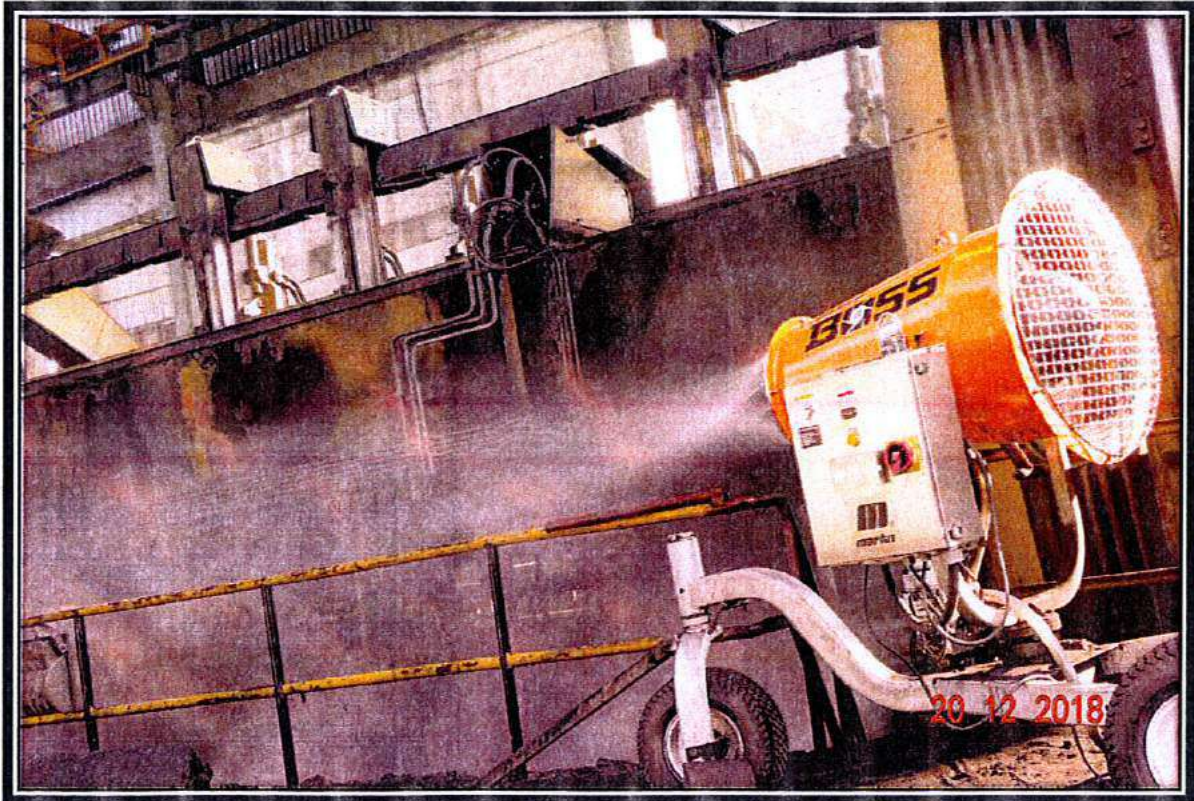


Three side covered wind screen to control fugitive emissions due to wind flow



Automated and Mechanized Coal handling System to minimize manual operations

Annexure-4



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

Annexure-5

Fly Ash Utilization Report

Nabha Power Ltd
Fly Ash Utilization FY 2018-19

Period	Month	Ash Generation Data (MT)				Ash Utilisation Data (MT)		Total Ash Utilised (MT)	%Ash utilised		Remark
		Dry Fly ash Collection	Wet Collection (Pond Ash)		Total	Dry Fly ash	Pond Ash		DFA	Total Ash	
			Bottom Ash	Dry Fly ash							
FY 2018-2019	April	103498.68	16925.15	0	120423.83	103398.68	11579.00	114977.68	100%	95%	
	May	111692.80	13748.12	0	125440.92	111592.80	7577.00	119169.80	100%	95%	
	June	87308.67	15137.81	0	102446.48	87308.67	655	87963.67	100%	86%	
	July	101928.48	17923.12	4100.00	119851.60	97628.48	0	97628.48	96%	81%	
	Aug	103441.06	13036.31	0	116477.37	103741.06	2931.00	106672.06	100%	92%	
	Sept	105179.00	18975.00	1131.00	124154.00	103848.88	3558.00	107406.88	99%	87%	
	Oct	150306.00	30305.00	1919.00	180611.00	148787.72	9453.00	158240.72	99%	88%	
	Nov	85051.45	11990.03	0	97041.48	85051.45	10733.00	95784.45	100%	99%	
	Dec	96425.00	23945.00	0	120370.00	96325.70	7865.00	104190.70	100%	87%	
	Jan	121697.00	21483.00	0	143180.00	121797.43	12829.00	134626.43	100%	94%	
	Feb	99304.65	14716.84	0	114021.49	99204.65	6652	105856.65	100%	93%	
	Mar	61072.00	14355.00	0	75427.00	61171.42	11954	73125.42	100%	97%	
	Total	1226904.79	212540.38	7150	1439445.17	1219857	85786	1305643	99.43	90.70	

Annexure-6

Fly Ash & Bottom Ash Analysis Report



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TEST REPORT

PPCB-Ref. No. Lab/3334/19

Date: 08/03/2019



Test Report No. : EL080319GS001		Page No. 1/1
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018	
Type of Sample	Ash Slurry	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	08/03/2019	
Sampling Location	From Pump House	
Packing, Markings, Seal & Quantity	Poly Bag Marked 'Ash Slurry' 1kg approx.	
Date of Receipt of Sample	08/03/2019	
Period of Analysis	08/03/2019 To 12/03/2019	
Date of Reporting	12/03/2019	
Sample Observation	Greyish Powder	

RESULTS

S.No.	Test Parameter	Unit	Results	Test Method
1	Lead as Pb	mg/kg	BDL(DL-0.1)	Lab-SOP No. EL/SOP/SS/23
2	Arsenic as As	mg/kg	BDL(DL-0.1)	Lab SOP No. EL/SOP/SS/23
3	Total Chromium as Cr	mg/kg	BDL(DL-0.1)	Lab SOP No. EL/SOP/SS/23
	Mercury as Hg	mg/Kg	BDL(DL-0.5)	Lab SOP No. EL/SOP/SS/23

Remarks (if any) BDL-Below Detection Limit; DL-Detection Limit
Please refer terms & conditions overleaf.

End of Report

Lab Incharge

Dr. Roopak Kumar
Authorized Signatory-Chemical

Format No: P/7.5.2-15.11.2018

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Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT

PPCB-Ref. No. I-14/225/2019



Test Report No. : EL080319GS002		Page No. 1/1
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018	
Type of Sample	Fly Ash	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	08/03/2019	
Sampling Location	From Ash Silo	
Packing, Markings, Seal & Quantity	Poly Bag Marked 'Fly Ash' 1kg approx.	
Date of Receipt of Sample	08/03/2019	
Period of Analysis	08/03/2019 To 12/03/2019	
Date of Reporting	12/03/2019	
Sample Observation	Whitish Powder	

RESULTS

S.No.	Test Parameter	Unit	Results	Test Method
1	Lead as Pb	mg/kg	BDL(DL-0.1)	Lab-SOP No. EL/SOP/SS/23
2	Arsenic as As	mg/kg	BDL(DL-0.1)	Lab SOP No. EL/SOP/SS/23
3	Total Chromium as Cr	mg/kg	BDL(DL-0.1)	Lab SOP No. EL/SOP/SS/23
	Mercury as Hg	mg/Kg	BDL(DL-0.5)	Lab SOP No. EL/SOP/SS/23

Remarks (if any) BDL-Below Detection Limit; DL-Detection Limit
Please refer terms & conditions overleaf.

End of Report

Key Saw
Lab Incharge

Dr. Roopak Kumar
Authorized Signatory, Chemical

Format No. F/7.0.2.15.11.2018

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CIN : U74140PB2011PTC034739



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TEST REPORT

PPCB-Ref. No. Lab/3252992

Dated 30.09.2019



Test Report No. : EL080319GS002A		SL/19-20/1325	Page No 1/1
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101		
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018		
Type of Sample	Fly Ash		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	08/03/2019		
Sampling Location	From Ash Silo		
Packing, Markings, Seal & Quantity	Poly Bag Marked 'Fly Ash' 1kg approx.		
Date of Receipt of Sample	08/03/2019		
Period of Analysis	16/03/2019 To 16/04/2019		
Date of Reporting	19/04/2019		
Sample Observation	Whitish Powder		

RESULTS

S.No.	Test Parameter*	Unit	Results	Test Method
1	Alpha Emitters	Bq/kg	Not Detected	APHA 23 rd Ed 7110B Followed by Radiation Counting System
2	Beta Emitters	Bq/kg	Not Detected	APHA 23 rd Ed 7110B Followed by Radiation Counting System
	Gamma Emitters	Bq/kg	Not Detected	APHA 23 rd Ed 7110B Followed by Radiation Counting System

Remarks (if any) * Subcontracted
Please refer terms & conditions overleaf

For Consent/Signature

Lab Incharge

End of Report

Dr. Roopak Kumar
Authorized Signatory-Chemical



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL080319GS001A		EL/19-20/13726	Page No 1/1
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101		
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018		
Type of Sample	Ash Slurry		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	08/03/2019		
Sampling Location	From Pump House		
Packing, Markings, Seal & Quantity	Poly Bag Marked 'Ash Slurry' 1kg approx.		
Date of Receipt of Sample	08/03/2019		
Period of Analysis	16/03/2019 To 16/04/2019		
Date of Reporting	19/04/2019		
Sample Observation	Greyish Powder		

RESULTS

S.No.	Test Parameter*	Unit	Results	Test Method
1	Alpha Emitters	Bq/kg	Not Detected	APHA 23 rd Ed 7110B Followed by Radiation Counting System
2	Beta Emitters	Bq/kg	Not Detected	APHA 23 rd Ed 7110B Followed by Radiation Counting System
	Gamma Emitters	Bq/kg	Not Detected	APHA 23 rd Ed 7110B Followed by Radiation Counting System

Remarks (if any) * Subcontracted
Please refer terms & conditions overleaf

End of Report

Lab Incharge

Dr. Roopak Kumar
Authorized Signatory-Chemical

Form No. F/78/2/15/11/2018

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Annexure-7

Treated Sewage Monitoring Results



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



08/03/2019

Test Report No. : EL080319GE003		Page No. 1/1
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Distt Patiala , Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 DL: 18/09/2018	
Type of Sample	Waste Water	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	08/03/2019	
Sampling Location	STP Outlet	
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1 and APHA	
Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'M-R/08/01' 2 litre + 1 litre	
Date of Receipt of Sample	08/03/2019	
Period of Analysis	08/03/2019 to 12/03/2019	
Date of Reporting	12/03/2019	
Sample Observation	Slightly yellowish turbid liquid with suspended particles.	

RESULTS

S.No.	Test Parameter	Unit	Results	Specifications*	Test Method
1	pH	-	7.65	5.5-9.0	APHA-23rd Ed 2017-4500B
2	Total Dissolved Solids	mg/l	756	--	APHA-23rd Ed 2017- 2540C
3	Total Suspended Solids	mg/l	98	100	APHA-23rd Ed 2017- 2540 D
4	Biochemical Oxygen Demand (BOD)	mg/l	13	30	IS: 3025(P-44) 1993 R-1999 Ad.1 ROD 3days at 27°C
5	Chemical Oxygen Demand (COD)	mg/l	32	250	APHA-23rd Ed 2017- 5220B
6	Oil & Grease	mg/l	BDL(DL 3)	10	APHA-23rd Ed 2017- 5520D

Remarks (if any) BDL=Below Detection Level, DL=Detection Level

*as per discharge of environmental pollutants (wastewater) in inland surface water as per The Environment (Protection) Rules, 1986

Please refer Terms & Conditions overleaf

Not Valid for Consent Purpose

End of Report

[Signature]
Lab Incharge

[Signature]
Dr. Deepak Kumar
Authorized Signatory-Chemical

Generated: 7/7/2019, 10:20:19

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Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Dated 31/12/2018

Test Report No. : EL261218GE001	EC-19/12449	Page No. 1/1
Customer	Nabha Power Limited PO Box 28 Near Village-Nafash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 DL: 18/09/2018	
Type of Sample	Waste Water	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	26/12/2018	
Sampling Location	STP Outlet	
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1 and APHA	
Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'D/26/01' 2 litre + 1 litre	
Date of Receipt of Sample	26/12/2018	
Period of Analysis	26/12/2018 To 31/12/2018	
Date of Reporting	31/12/2018	
Sample Observation	Liquid with suspended particles.	

RESULTS

S.No.	Test Parameter	Unit	Results	Specifications*	Test Method
1	pH	-	7.59	5.5-9.0	APHA-23rd Ed 2017-4500B
2	Total Dissolved Solids	mg/l	498	2100	APHA-23rd Ed 2017- 2540C
3	Total Suspended Solids	mg/l	25	100	APHA-23rd Ed 2017- 2540 D
4	Biochemical Oxygen Demand (BOD)	mg/l	7.8	30	IS: 3025(P-44) 1993 R-1999 Ad.1 BOD 3days at 27°C
5	Chemical Oxygen Demand (COD)	mg/l	36	250	APHA-23rd Ed 2017- 5220B
6	Oil & Grease	mg/l	BDL (DL 3)	10	APHA-23rd Ed 2017- 5520D

Remarks (if any) BDL=Below Detection Level; DL=Detection Level; Please refer terms & conditions overleaf.

*as per discharge of environmental pollutants (wastewater) in inland surface water as per The Environment(Protection)Rules, 1986
Please refer Terms & Conditions overleaf.

For Consent Purpose

End of Report

For Eco Laboratories & Consultants Pvt. Ltd.

Lab Incharge

Authorized Signatory

Format No. F/5.10-01/01

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

Annexure-8

Ground Water Quality Monitoring Results

POLLUTION CONTROL BOARD, PATIALA
NABHA ROAD, PATIALA
GROUNDWATER REPORT



TC-7045

1. Laboratory Sample No. GW 291-296/H.O. Lab/G.W. Monitoring/2018-19
2. UIR Number UIR/TC/7045/200000000307P
3. Name of Industry Ground Water Samples taken from M/s Nabha Power Limited, Vill. Nallas, Patiala.
4. Name of Sample collecting Officer. Mr. Nikhil Gupta, A.I.E.
5. Designation of authorizing Test I.T., RO, Patiala.
6. Date & Time of Sample collection 18.12.2018
7. Date & Time of Sample receipt in Lab 19.12.2018
8. Period of Analysis 19.12.2018 to 31.12.2018
9. Test Methods As per relevant parts of IS: 3025 & Methods of APHA

Results

Sr. no.	Parameters	Near Coal Handling Plant	Near Storm Water Sump	Near the ash dyke	Between Ash dyke and reservoir
1	pH	8.09	8.06	7.88	7.44
2	Total Suspended Solids mg/l	BDL	BDL	BDL	BDL
3	Total Dissolved Solids mg/l	371	360	382	508
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	92	80	86	238
7	*Magnesium mg/l	7.3	5	6	24.4
8	Sulphate mg/l	24	37	25	37
9	*Mercury mg/l	BDL	BDL	BDL	BDL
10	*Lead mg/l	BDL	BDL	BDL	BDL
11	Total Chromium mg/l	BDL	BDL	BDL	BDL

* Not covered under scope of NABH

Note: BDL means Below Method Detection Limit.

--End of Report--

Analyzed by *Sonu Kumar*
01-01-19

Endst. No: 74-75

Dr. 11/12/19
Scientific Officer

A copy of the above is forwarded to the:-

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

11/11/19
Asstt. Scientific Officer

Annexure-9

Green Belt Photographs

Annexure-9

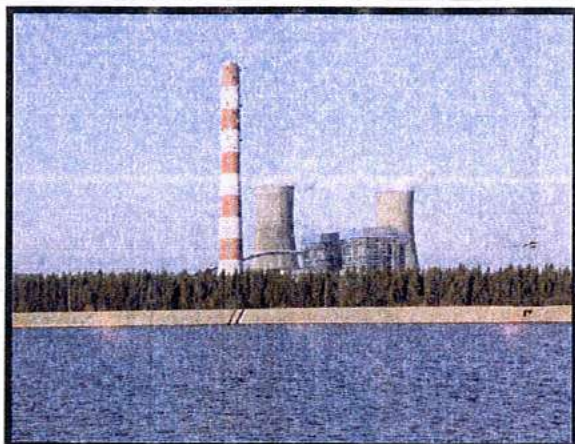
NPL is having a complete dedicated team of skilled horticulturists for the forestation and greenery development program at our plant. A green belt of 2.50 lac plants is developed inside as well outside plant premises. Also small patches of gardens are developed inside of the plant premises wherever the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



Pic-1 Green belt around coal stock pile area



Pic-2 Green belt around plant premises



Pic-3 Green belt along boundary



Pic-4 Green belt on both sides of road

Annexure-10

CSR Report

Nabha Power Limited

Corporate Social Responsibility

October/18-March/19

Cancer Camp – 7th October ,Village Rangian



- Cancer detection camp was organized in association with World Cancer Care society and village panchayat of Rangian.
- 950 persons had gone through check up from nearby 12 villages.
- Well equipped mobile vans and team of expert doctors carried out tests which includes Mammography, Bone Density, Prostate Cancer, Throat/Oral Cancer along with general checkup of routine illness.

4th NPL Cup- Chak Khurd27th October 2018**Team/Player Participation**

Event	Teams	Players	Total Players
Kabaddi	18	10	180
Volley ball	11	8	88
Tug of war	10	9	90
			358

Results

Event	1st	2nd	3rd
Kabaddi	Chak Khurd	Bhateri	Dadu Majra
Tug of war	Uppal Heri	Sindhuran	Cholti Kheri
Volley Ball	Bhagrana	Dadu Majra	Ugani Sahib

**Visit of Experts from Environmentalist Foundation of India**24th Oct 2018

Purpose:- To clean village ponds & enhance their water storage capacity which further can be used for irrigation , fish pond or as a source of ground water recharge.

Locations Identified				
Sr. No.	Village	Pond Area	Appx Cost	Work Includes
1	Bhagrana	6.2 Acre	24.6 L	Survey/Soil Analysis/ Dewatering/Excavation/ Machinery/ Labour/ Fencing/ Plantation
2	Sindran	2.3 Acre	18.7 L	Same as Above
3	Salempur	3 Acre	24.6 L	Same as Above

Activities/Participation by SHGs

Date	Organized By	Place	Total Sale		
16-10-2018	Cooperative Bank	Fatehgarh Sahib	1200		
22-10-2018	Cooperative Bank	Lala Laj Pat Bhawan-CHD	3160		
23-10-2018	Cooperative Bank	Lala Laj Pat Bhawan-CHD	2900	Exhibition organised by Cooperative Bank at	Exhibition organized by Cooperative Bank at Chandigarh Date- 22 nd/ 23rd-10-2018
24-10-2018	NPL Ladies Club	Zirkpur	1250		
25-10-2018	NPL Ladies Club	Mehndi-Zirkpur	560		
25-10-2018	NPL Ladies Club	Mohali	1000		
26-10-2018	NPL Ladies Club	Mohali	10150	Exhibition at Zirkpur by NPL Ladies Club	
31-10-2018	CSR	NPL-Diwali Special	13000		Mehndi Event on Karwa Chauth At Mohali 25/26-10-2018
31-10-2018	Panjab University	Chandigarh	5300		Diwali Special Exhibition at NPL, Rajpura Date-31-10-2018
			38520		

Training Students Enrolled

Sr. No.	Centre	Students	Commencement
1	Rangian	17	Aug-12
2	Nalash Khurd	21	Nov-13
3	Sural Kalan	45	Feb-11
4	Badali Mai Ki	32	May-18
5	Salempur	30	Nov-17
6	Dhuman	27	Aug-17
7	Basantpura	27	Aug-17
8	Bhagrana	26	Sep-17
9	Bhateri	31	Oct-17
10	Uppal Heri	38	Feb-18
11	Bakshiwal Basti	40	Feb-18
1	Nalash Kalan	Shifted	Aug-13
2	Sadhror	Shifted	Apr-14
3	Mirzapur	Shifted	Aug-15
4	Sindhuran	Shifted	Aug-15
5	Sarai Banjara	Shifted	Aug-16
6	Harna	Shifted	Nov-13
7	Jansua	Shifted	Aug-15
8	Niamatpur	Shifted	Aug-15
		334	

Old

New

Shifted

Welfare Schemes

Shagan Scheme Case Processed

Month	Beneficiaries	Amount
April	14	2.94
May	4	0.84
June	10	2.10
July	2	0.42
August	8	1.68
September	19	3.99
October	12	2.52
November		14.49 L
December		
January		
February		
March		

Female Child Scheme Case Processed

Month	Beneficiaries	Amount (in Lacs)
April	5	1.05
May	7	1.47
June	0	0
July	22	4.62
August	8	1.68
September	10	2.10
October	0	0
November		10.92 L
December		
January		
February		
March		

Development of Pond- Salempur



- Meeting held with village representatives/stakeholders and Dept. of Water & Sanitation to review & discuss the plan of Pond development.

Problem:-

No outlet of pond water.
 Overflow water affected the surrounding land
 Pond area reduced due to encroachment.
 Polluting the ground water of nearby houses.
 Issue of health and hygiene



Construction of Roads



Sarai Banjara



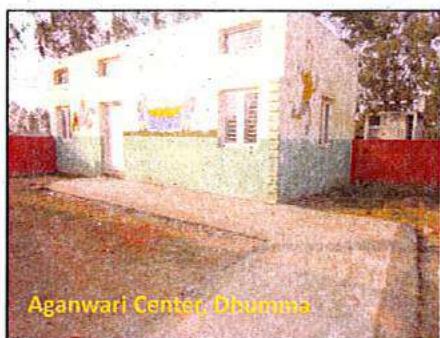
Rangian

Sr. No.	Village	Location	Length of Road In mtr	Current Status
1	Sarai Banjara Basti	Connecting Road	50	Ready For Concreting
2	Niamatpur	Graveyard Road	375	On hold
3	Baras	Peripheral Road	320	Ready For Concreting
4	Srai Banjara	Peripheral Road	180	Ready For Concreting
5	Rangian	Peripheral Road	490	Laying of GSB
6	Akbarpur	Peripheral Road	100	Yet to be start
7	Jansua	School Connecting Road	380	Drain work in progress



Jansua

Renovation of Existing Infrastructure



Aganwari Center, Dhumma



SC Dharamshala, Sadhror

Purpose

Face uplifting/Renovation of existing village infrastructure like Dharamshala, Panchayat building, Aganwari Center, School, Health Center etc.

Sr. No.	Village	Location
1	Sadhror	SC Dhamshala
2	Salempur	Middle School
3	Basantpura	Panchayat Building
4	Sindran	Aganwari Center
5	Ugani	Aganwari & Health Center
6	Mirzapur	Library Room
7	Jansua	Library Room
8	Dadu Majra	Library Room
9	Basantpura	Library Room

Kotla Lab



		Challenges	Suggestions
Month	Total	Patients wants instant reports or on same day	Lab attendant asked to deliver reports through WhatsApp Reports can be Delivered at Lab in the evening, NPL staff bus can collect reports from RJP
Aug-18	193	Excess Govt. Holidays (remain closed on avg.8-10 days)	Only Rajpura Path Lab Holiday Calendar will be followed Sunday will Remain closed
Sep-18	139		
Oct-18	89	Certain test rates are high.	Need to check with other Labs (Rajpura/Patiala)
Nov-18	94		
Dec-18		Irregular availability of Doctor	Earlier Zila Parishad conducted a sudden visit, which results improvement in Doctor's attendance Need to contact concerned authority again
G.Total	515		

Welfare Schemes-Case Processed

Shagan Scheme

Month	Beneficiaries	Amount
April	14	2.94
May	4	0.84
June	10	2.10
July	2	0.42
August	8	1.68
September	19	3.99
October	12	2.52
November	28	5.88
December		20.37
January		
February		
March		

Female Child Scheme

Month	Beneficiaries	Amount (in Lacs)
April	5	1.05
May	7	1.47
June	0	0
July	22	4.62
August	8	1.68
September	10	2.10
October	0	0
November	8	1.68
December		12.6
January		
February		
March		

Support extended under Welfare Scheme



Scheme	Families	Village Covered	Amount
Shagan	21	13	4.41
Female Child	23	13	4.83
	44	26	9.24



Activities/Participation by SHGs

Date	Organized By	Place
17-11-2018	Cooperative Deptt	Bassi Pathana
20-11-2018	Cooperative Deptt	Sirhind



Exhibition organised by Cooperative Deptt



SHG got appreciation letter & Award for their activity and participation from
Department of Cooperative Society

Expanding Skill Training Opportunities

- Bhateri Training Centre has been shifted to a new location Sural Khurd.
- Accommodation provided by Village Panchayat
- 30 students have been enrolled ,also coving surrounding villages Harna and Sural Kalan



Training Students Enrolled

Sr. No.	Centre	Students	Commencement
1	Rangian	15	Aug-12
2	Nalash Khurd	21	Nov-13
3	Sural Kalan	45	Feb-11
4	Badali Mai Ki	21	May-18
5	Salempur	28	Nov-17
6	Dhuman	26	Aug-17
7	Basantpura	27	Aug-17
8	Bhagrana	26	Sep-17
9	Sural Khurd	27	Nov-18
10	Uppal Heri	38	Feb-18
11	Bakshiwal Basti	39	Feb-18
1	Bhateri	Shifted	Oct-17
1	Nalash Kalan	Shifted	Aug-13
2	Sadhror	Shifted	Apr-14
3	Mirzapur	Shifted	Aug-15
4	Sindhra	Shifted	Aug-15
5	Sarai Banjara	Shifted	Aug-16
6	Harna	Shifted	Nov-13
7	Jansua	Shifted	Aug-15
8	Niamatpur	Shifted	Aug-15
		313	

Old

New

Shifted

Visit of Principal Secretary ,Govt. of Punjab



- Principal Secretary along with ADC (Development) Fatehgarh Sahib and BDPO Khara visited Training center Salempur and had interaction with Women SHG members.



- Appreciated the Spices work of SHG and assured further Training through R-SETI at local village level.
- Emphasized on women empowerment through SHGs

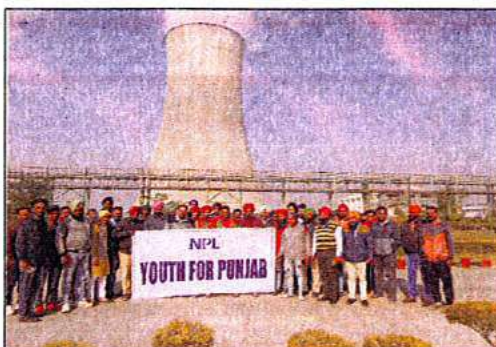
Farmers visit to Agro Tech Fair Chandigarh



- A group of 34 farmers from 14 villages had a visit to Agro Tech Fair, Chandigarh being organized by CII.
- Farmers had exposure about the latest Agro machinery, Tools, Seeds and interaction with Agro experts/ researchers

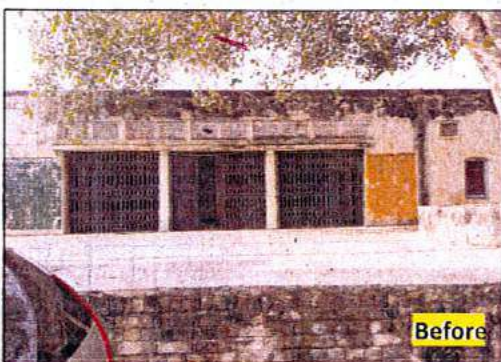


Youth Dialogue



- 64 Youth representatives from 25 villages
- Resource persons from Cooperative Bank and Youth Activists
- To provide platform to Youth of surrounding villages.
- Use their skill/talent for village development.
- Engage them in social activities like Blood donation camps/Sports/Swachh Village movement etc,

Renovation of Sub Health Centers



In order to strengthen the Health services in the vicinity of Plant Govt Sub Health centers have renovated.

- Jansui
- Bhappal
- Ugani Sahib



Renovation of Aganwari/Schools

Sindran

After



To meet the basic needs of the educational institutions of surrounding villages, renovation/repair has been carried out.

- Sindram
- Basantpura
- Dadu Majra
- Jansua



Before



Balsuan

Development of Existing Panchayat Buildings



After

Abandoned panchayat building have been repaired/renovated to bring them back in use

- Sadhror
- Badali Mai Ki
- Gurditpura



Before

Construction of Educational Wing

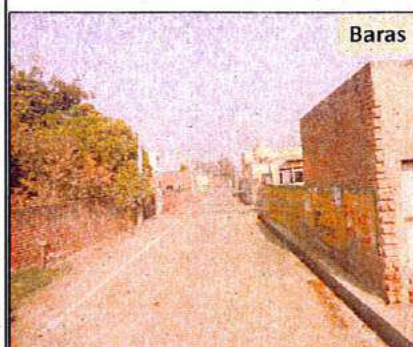


To be developed and used by Children as a
Computer Room/Activity Room



To be completed by the end of Jan/19
and will be handed over to concerned
authorities

Construction of Roads

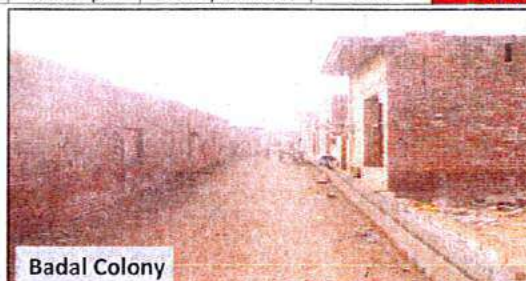


Baras



Sarai Banjara

Sr. No.	Village	Location	Length of Road (in mtr)	Current Status
1	Baras	Peripheral Road	320	Completed
2	Sarai Banjara Basti	Connecting Road	50	Completed
3	Sarai Banjara	Peripheral Road	180	Concrete in Progress
4	Rangian	Peripheral Road	490	Ready for Concrete
5	Jansua	School Connecting Road	380	Ready for Concrete
6	Badal Colony	Connecting Road	50	Ready for Concrete
7	Akbarpur	Peripheral Road	100	On hold
8	Niamatpur	Graveyard Road	375	On hold



Badal Colony

**Shagan Scheme
Case Processed**

Month	Beneficiaries	Amount
April	14	2.94
May	4	0.84
June	10	2.10
July	2	0.42
August	8	1.68
September	19	3.99
October	12	2.52
November	28	5.88
December	20	4.20
		24.57

**Female Child Scheme
Case Processed**

Month	Beneficiaries	Amount
April	5	1.05
May	7	1.47
June	0	0
July	22	4.62
August	8	1.68
September	10	2.10
October	0	0
November	8	1.68
December	16	3.36
		15.96

Welfare Schemes

Support extended during Dec/18

Scheme	Families	Village Covered	Amount
Shagan	11	9	2.31
Female Child	04	04	0.84
	15	13	3.15

Training Students Enrolled			
Sr. No.	Centre	Students	Commencement
1	Rangian	18	Aug-12
2	Nalash Khurd	23	Nov-13
3	Sural Kalan	15	Feb-11
4	Badali Mai Ki	19	May-18
5	Salempur	16	Nov-17
6	Dhuman	34	Aug-17
7	Basantpura	33	Aug-17
8	Bhagrana	26	Sep-17
9	Sural Khurd	29	Nov-18
10	Uppal Heri	35	Feb-18
11	Bakshiwala Basti	36	Feb-18
1	Bhateri	Shifted	Oct-17
1	Nalash Kalan	Shifted	Aug-13
2	Sadhror	Shifted	Apr-14
3	Mirzapur	Shifted	Aug-15
4	Sindhra	Shifted	Aug-15
5	Sarai Banjara	Shifted	Aug-16
6	Harna	Shifted	Nov-13
7	Jansua	Shifted	Aug-15
8	Niamatpur	Shifted	Aug-15
		284	
<div>Old</div> <div>New</div> <div>Shifted</div>			

Enhancing the Capabilities of SHGs

Two knitting machines have been purchased for two SHGs of Upalheri →



One Seed Grinder (Heavy Duty) has been purchased for SHG- Umang of Salempur →



Kotla Lab



Month	Total
Aug-18	193
Sep-18	139
Oct-18	89
Nov-18	94
Dec-18	
G. Total	515

Road Infrastructure

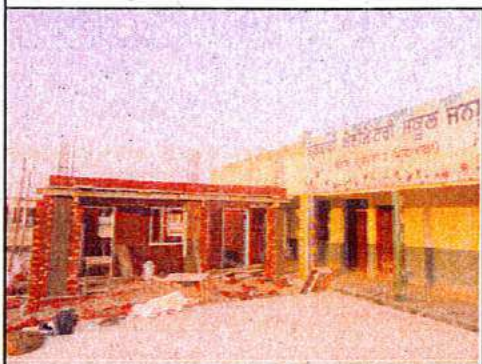


Sr. No.	Village	Location	Length of Road (in mtr)	Current Status
1	Baras	Peripheral Road	320	Completed
2	Sarai Banjar Basti	Connecting Road	50	Completed
3	Sarai Banjar	Peripheral Road	180	Completed
4	Rangian	Peripheral Road	490	Completed
5	Jansua	School Connecting Road	380	Completed
6	Badal Colony	Connecting Road	50	Completed
7	Akbarpur	Peripheral Road	100	On hold
8	Niamatpur	Graveyard Road	375	On hold

Alternate Roads

- Kehargarh
- Baskhiwala
- Dadu Majra

Development of Schools/Aganwaries



Sr. No.	Location	Work Description
1	Govt. Destitute Home, Rajpura	Study cum extra curricular wing for children Area:-
2	Govt. Elementary School, Jansua	Additional Class room size 22 feet x 20 feet including veranda. Most needy village .School has strength of 350 children
3	Govt. Elementary School, Jansua	Additional Class room size 22 feet x 20 feet including veranda. Existing building has been declared unsafe by the dept.



Women Empowerment

- Festival of Lohri was celebrated & dedicated to girls/women.
- SHG members along with Training Center students and instructors participated and presented their talent.
- NPL Ladies Club members also became the part of the occasion.



Support to Self Help Groups

In order to strengthen & encourage the Women SHGs, NPL supported four SHGs with required machines. This would help these SHGs to increase their production and income capacity.

Sr. No.	SHG name & Village	Machine
1	Umang SHG Salempur	Mixer grinder for masala making
2	Chardi Kala Sarai Banjara	Fashion maker for Stitching and Embroidery
3	Deepak SHG Uppal Heri	Knitting Machine
4	Chardi Kala Uppal Heri	Knitting Machine



Training Students Enrolled

Sr. No.	Centre	Students	Commencement
1	Rangian	18	Aug-12
2	Nalash Khurd	18	Nov-13
3	Sural Kalan	17	Feb-11
4	Badali Mai Ki	17	May-18
5	Jansua	30	Jan-19
6	Dhuman	32	Aug-17
7	Basantpura	31	Aug-17
8	Bhagrana	23	Sep-17
9	Sural Khurd	30	Nov-18
10	Uppal Heri	35	Feb-18
11	Bakshiwal Basti	35	Feb-18
1	Salempur	Shifted	Jan-19
2	Bhateri	Shifted	Oct-17
3	Nalash Kalan	Shifted	Aug-13
4	Sadhror	Shifted	Apr-14
5	Mirzapur	Shifted	Aug-15
6	Sindhra	Shifted	Aug-15
7	Sarai Banjara	Shifted	Aug-16
8	Harna	Shifted	Nov-13
9	Jansua	Shifted	Aug-15
10	Niamatpur	Shifted	Aug-15
		286	

Old

New

Shifted

Shagan Scheme Case Processed

Month	Beneficiaries	Amount
April	14	2.94
May	4	0.84
June	10	2.10
July	2	0.42
August	8	1.68
September	19	3.99
October	12	2.52
November	28	5.88
December	20	4.20
January	13	2.73
February		27.3
March		

Female Child Scheme Case Processed

Month	Beneficiaries	Amount (in Lacs)
April	5	1.05
May	7	1.47
June	0	0
July	22	4.62
August	8	1.68
September	10	2.10
October	0	0
November	8	1.68
December	16	3.36
January	9	1.89
February		17.85
March		

Welfare Schemes

Support extended during Jan/19

Scheme	Families	Village Covered	Amount
Shagan	25	15	5.25 lacs
Female Child	2	2	0.42 lacs



Support to Subsidiary Health Center, Kotla



- To strengthen the existing Govt. Health Facilities, NPL Supported SHC Kotla with basic medical check up tools .
- A New Doctor has been appointed , who is involving local panchayat, donors to get their contribution for SHC.
- Local donors contributed to purchase generic medicines for SHC.



- Nebulizer-1
- Stethoscope-1
- BP apparatus (Digi)- 1
- Weigh Machine (Digi)-1
- X-Ray Check Machine-1

Kotla Lab



Month	Total
Aug-18	193
Sep-18	139
Oct-18	89
Nov-18	94
Dec-18	72
G. Total	646

NPL Received Greentech CSR award 2018 for significant contribution in Women Empowerment through imparting Skill Training and formation of Women Self Help Groups in the surrounding villages.

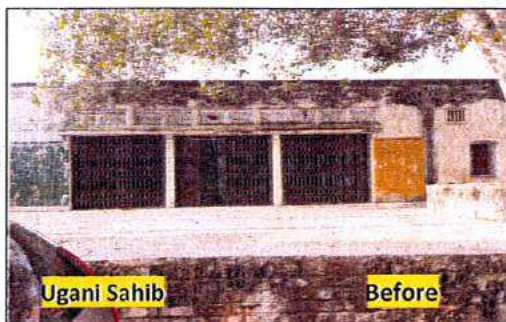


Youth Engagement



- Motivate rural youths towards Sports
- No of Rural Sports Tournament conducted – 02
- Villages - Chak Khurd & Mirzapur
- No of teams participated – 62
- Youth representative engaged – 64
- Resource person engaged - Cooperative Bank/ Youth activists

Renovation of Sub Health Centers

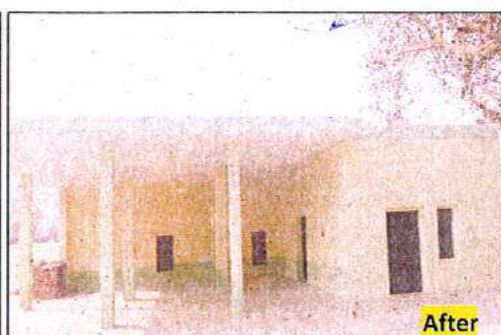
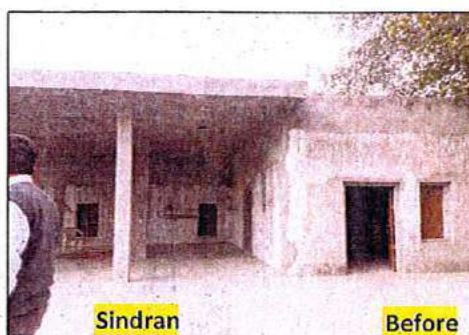


In order to strengthen the Health services in the vicinity of Plant Govt Sub Health centers have renovated.

- Jansui (Catering 2000 population)
- Bhappal (Catering 2000 population)
- Ugani Sahib (Catering 2000 population)



Renovation of Aganwari/Schools



To meet the basic needs of the educational institutions of surrounding villages, renovation/repair has been carried out.

- Sindran
- Basantpura
- Dadu Majra
- Jansua



Path Lab Facility



Monthly Patients Intake



Sr. No.	Centre	Students	Commencement
1	Rangian	15	Aug-12
2	Sural Kalan	17	Feb-11
3	Kotla	32	Feb-19
4	Balsuan	25	Mar-19
5	Jansua	35	Feb-19
6	Dhuman	26	Aug-17
7	Basantpura	24	Aug-17
8	Dadumajra	31	Mar-19
9	Sural Khurd	29	Nov-18
10	Uppal Heri	26	Feb-18
11	Bakshiwala Basti	30	Feb-18
1	Salempur	Shifted	Jan-18
2	Bhateri	Shifted	Oct-17
3	Nalash Kalan	Shifted	Aug-13
4	Sadhror	Shifted	Apr-14
5	Mirzapur	Shifted	Aug-15
6	Sindhra	Shifted	Aug-15
7	Sarai Banjara	Shifted	Aug-16
8	Harna	Shifted	Nov-13
9	Jansua	Shifted	Aug-15
10	Niamatpur	Shifted	Aug-15
11	Nalas Khurd	Shifted	Nov-13
12	Bhagrana	Shifted	Sep-17
13	Badali Mai Ki	Shifted	May-18
		290	

Activity for the month of March'19/Training Program

Training program - Jute Bag Making
Village - Bhateri

Duration- 15 days

Organized by- ICICI Foundation

Total beneficiaries – 35 no's



Training program - Paper Bag making
Village - Sural Kalan.

Duration- 10 days

Organized by- SBI (Rural Self Employment
Training Institute)

Total beneficiaries- 35



Welfare Schemes

Welfare Scheme	Beneficiaries (March)	Amount (Lac)	Total Beneficiaries (FY 2018-19)	Amount
Female Child	30	6.30	114	23.94
Shagan Scheme	42	8.82	233	48.93
Total	72	15.12	347	72.87

* 347 beneficiaries have been covered from 45 Villages

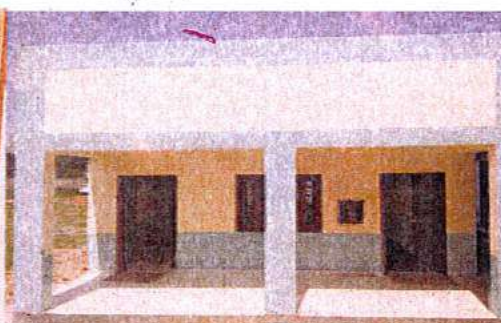


Status : Education – Academic Support

Name of activities	Nos of activity	No of students participated
Library Session	2	60
Career Guidance	1	24
Science Lab activity	1	21
Non verbal Communication	1	17
Total	5	122

**Status— Infrastructural support**

Name of activities	No. of Beneficiaries
Inauguration of activity room at Rajpura (2000 sq. ft)	60
New Classroom in Primary School at Jansua	40
Facelift of classrooms of 2 schools (Naina & Salempur)	85
Total	185



Status : Support Class – March 2019

Profiling of individual students - Evaluation of grades of 21 students

Result of Students						
S.No	Name of Students	Class	Maths	English	Maths	English
1.	Sahil	3rd	04/10	06/10	06/10	04/10
2.	Rahul	3rd	05	06	07	06
3.	Hasmanpreet S.	3rd	05	05	05	06
4.	Simranjeet Kaur	3rd	05	03	06	05
5.	Gagandeep Singh	3rd	06	04	06	05
6.	Meenakshi	4th	07	05	07	08
7.	Mandeep Kaur	4th	09	07	08	08
8.	Ishu	4th	10	06	09	08
9.	Paramveer Singh	4th	04	07	06	05
10.	Akshpreet Singh	4th	10	05	10	07
11.	Amanpreet Kaur	4th	06	06	07	08
12.	Anmolpreet K.	7th	08	08	09	08
13.	Ramran	7th	08	07	10	09
14.	Jasleen Kaur	5th	08	04	08	07
15.	Simranjeet Kaur	5th	08	06	08	08
16.	Harshpreet Singh	5th	08	05	09	07
17.	Neha	5th	02	03	05	05
18.	Haseman Singh	5th	06	04	07	07
19.	Gurinder Singh	5th	05	03	06	06
20.	Mansi	4th	06	04	08	07
21.	Jashanpreet S.	6th	04	02	07	05

Current status – New session will begin from July 2019

Annexure-11

Ambient Air Quality Monitoring Results



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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

TEST REPORT



Test Report No. :EL070319GA001		Page No. 1/2
Customer	Nabha Power Limited PO Box 28, Near Village-Nafash Dist Patiala , Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	06/03/2019 to 07/03/2019	
Sampling Location	Near Loco Shed	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.	
Date of Receipt of Sample	07/03/2019	
Period of Analysis	07/03/2019 To 12/03/2019	
Date of Reporting	12/03/2019	
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQM/36/2012-13) & NAAQS 2009	
Environmental Condition	Clear Sky	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	RespirableSuspended Particulate Matter (PM10)	µg/m3	83	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m3	49	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO2)	µg/m3	14	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m3	29	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH3)	µg/m3	20	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O3)	µg/m3	14	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m3	0.68	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8	Lead (Pb)	µg/m3	0.10	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m3	BDL(DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m3	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C6H6)*	µg/m3	BDL(DL 5)	05	IS 5182 Part-11:2005 (RA 2017)
12	Benzo Pyrene (BaP), Particulate	ng/m3	BDL(DL 1)	01	IS 5182 Part-12: 2004 RA 2014

Not Valid for Consent Purpose

Form No: E/2/42/19/31/2018

ECO BHAWAN

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

Dr. Raj Singh

Authorized Signature Chemical

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Test Report No. :EL070319GA001					Page No. 2/2
S.No.	Test Parameter	Units	Results	MAAQS 2009	Test Method
12	Phase Only				

Remarks (if any) : BDL Below Detection Limit, DL-Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).


Lab Incharge

****End of Report****


Dr. Rai Singh
Authorized Signatory-Chemical

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Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL070319GA002		Page No. 1/2
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	06/03/2019 to 07/03/2019	
Sampling Location	Near NDCT	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.	
Date of Receipt of Sample	07/03/2019	
Period of Analysis	07/03/2019 To 12/03/2019	
Date of Reporting	12/03/2019	
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQM/36/2012-13) & NAAQS 2009	
Environmental Condition	Clear Sky	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m ³	80	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m ³	44	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO ₂)	µg/m ³	14	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m ³	25	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH ₃)	µg/m ³	19	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O ₃)	µg/m ³	15	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m ³	0.79	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8	Lead (Pb)	µg/m ³	0.11	10	IS 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m ³	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m ³	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C ₆ H ₆)	µg/m ³	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP), Particulate	ng/m ³	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

Revision: R7/8/2015/102810

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Test Report No. :EL070319GA002					Page No. 2/2
S.No.	Test Parameter	Units	Results	MAAQS 2009	Test Method
12	Phase Only				

Remarks (if any) BDL Below Detection Limit; DL-Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).


Lab Incharge

End of Report


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

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL070319GA003		Page No. 1/2
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	06/03/2019 to 07/03/2019	
Sampling Location	Near Switch Yard	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.	
Date of Receipt of Sample	07/03/2019	
Period of Analysis	07/03/2019 To 12/03/2019	
Date of Reporting	12/03/2019	
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQM/36/2012-13) & NAAQS 2009	
Environmental Condition	Clear Sky	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m ³	80	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m ³	46	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO ₂)	µg/m ³	17	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m ³	28	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH ₃)	µg/m ³	21	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O ₃)	µg/m ³	18	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m ³	0.71	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8	Lead (Pb)	µg/m ³	0.11	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m ³	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m ³	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C ₆ H ₆)	µg/m ³	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP), Particulate	ng/m ³	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

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Formal No. 3/2019/10/2018

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Test Report No. : EL070319GA003					Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
12	Phase Only				

Remarks (if any) BDL Below Detection Limit; DL-Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).


Lab Incharge

End of Report


Dr. Rai Singh
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For Consent Purpose



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Lab No. EL/070319GA004

Dated 30/09/2019

Test Report No. :EL070319GA004		Page No. 1/2
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala , Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	06/03/2019 to 07/03/2019	
Sampling Location	Near Storm Water Sump	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.	
Date of Receipt of Sample	07/03/2019	
Period of Analysis	07/03/2019 To 12/03/2019	
Date of Reporting	12/03/2019	
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQM/36/2012-13) & NAAQS 2009	
Environmental Condition	Clear Sky	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	RespirableSuspended Particulate Matter (PM10)	µg/m3	79	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m3	42	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO2)	µg/m3	16	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m3	26	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH3)	µg/m3	20	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O3)	µg/m3	17	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m3	0.72	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8	Lead (Pb)	µg/m3	0.09	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m3	BDL(DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m3	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C6H6)*	µg/m3	BDL(DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP). Particulate	ng/m3	BDL(DL 1)	01	IS 5182 Part-12: 2004 RA 2014

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Format no. R/282/8, 01/2018

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PFCB-Ref. No. Lab/5223897

Dated-30.09.2019

Test Report No. : EL070319GA004					Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
12	Phase Only				

Remarks (if any) BDL Below Detection Limit; DL-Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).


Lab Incharge

End of Report


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

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL080319GA007		Page No. 1/2
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala , Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	07/03/2019 to 08/03/2019	
Sampling Location	Vill. Dabhali, Rajpura	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.	
Date of Receipt of Sample	08/03/2019	
Period of Analysis	08/03/2019 To 12/03/2019	
Date of Reporting	12/03/2019	
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQM/36/2012-13) & NAAQS 2009	
Environmental Condition	Clear Sky	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	70	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m3	38	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO2)	µg/m3	12	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m3	23	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH3)	µg/m3	21	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O3)	µg/m3	18	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m3	0.58	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8	Lead (Pb)	µg/m3	0.09	1.0	IS. 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m3	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m3	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C6H6)*	µg/m3	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP), Particulate	ng/m3	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

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Form No. FZ/02/15/112049

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Test Report No. : EL080319GA007					Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
12	Phase Only				

Remarks (if any) BDL Below Detection Limit; DL-Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).


Lab Incharge

End of Report


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

CIN : U74140PB2011PTC034739



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

TEST REPORT



12/03/2019

Test Report No. : EL080319GA008		Page No. 1/2
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	07/03/2019 to 08/03/2019	
Sampling Location	Vill. Dadumajra	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.	
Date of Receipt of Sample	08/03/2019	
Period of Analysis	08/03/2019 To 12/03/2019	
Date of Reporting	12/03/2019	
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQM/36/2012-13) & NAAQS 2009	
Environmental Condition	Clear Sky	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m ³	73	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m ³	39	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO ₂)	µg/m ³	13	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m ³	24	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH ₃)	µg/m ³	19	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O ₃)	µg/m ³	16	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m ³	0.64	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8	Lead (Pb)	µg/m ³	0.09	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m ³	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m ³	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C ₆ H ₆)	µg/m ³	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP), Particulate	ng/m ³	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

Valid for Consent Purpose

Form No. ETL-02/15/12/2018

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Test Report No. :EL080319GA008					Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
12	Phase Only				

Remarks (if any) BDL Below Detection Limit, DL-Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).

End of Report


Lab Incharge

Not Valid for Consent Purpose


Dr. Rai Singh
Authorized Signatory-Chemical



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



CO-03-15-10/03/2019
Date: 30.03.2019

Test Report No. : EL080319GA009		Page No. 1/2
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 DL: 18/09/2018	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	07/03/2019 to 08/03/2019	
Sampling Location	Vill. Salempura, Rajpura	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.	
Date of Receipt of Sample	08/03/2019	
Period of Analysis	08/03/2019 To 12/03/2019	
Date of Reporting	12/03/2019	
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQM/36/2012-13) & NAAQS 2009	
Environmental Condition	Clear Sky	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m ³	75	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m ³	40	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO ₂)	µg/m ³	14	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m ³	27	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH ₃)	µg/m ³	23	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O ₃)	µg/m ³	15	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m ³	0.62	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)
8	Lead (Pb)	µg/m ³	0.10	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m ³	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m ³	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C ₆ H ₆)	µg/m ³	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP), Particulate	ng/m ³	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

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Form No. 1/7/02/15/012019

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PFC POLYMER Lab, Gurgaon
Date: 30.03.2011

Test Report No. : EL080319GA009					Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
12	Phase Only				

Remarks (if any) BDL Below Detection Limit; DL-Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).

Lab Incharge

End of Report

Dr. Rai Singh
Authorized Signatory-Chemical

Valid for Consent Purpose



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL241218GA001	E-75-19/12443	Page No. 1/2
Customer	Nabha Power Limited PO Box 26 Near Village-Malash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	22/12/2018 to 23/12/2018	
Sampling Location	Near NDCT	
Sampling Protocol	IS: 11255 (Pt-1) 1985 Reaff. 2003/CPCB Guidelines & Customer's Requirements	
Date of Receipt of Sample	24/12/2018	
Period of Analysis	24/12/2018 To 28/12/2018	
Date of Reporting	31/12/2018	
Testing Protocol	NAAQS 2009	
Environmental Condition	Clear sky & cold condition.	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	90	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m3	57	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO2)	µg/m3	16	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m3	24	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH3)	µg/m3	17	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O3)	µg/m3	15	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m3	BDL (DL 1.5)	04	Lab SOP: EL/SOP/AAQ/03
8	Lead (Pb)	µg/m3	BDL (DL 0.04)	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m3	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m3	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C6H6)*	µg/m3	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP). Particulate	ng/m3	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

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Form No. F/5.10-01/01

ECO BHAWAN

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

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File No. EL241218GA001


Date: 10/03/2021


Test Report No. :EL241218GA001					Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
12	Phase Only				

Remarks (if any) BDL Below Detection Limit, DL-Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).

****End of Report****

For Eco Laboratories & Consultants Pvt. Ltd.


Lab Incharge


Authorized Signatory

Not Valid for Consent Purpose



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL241218GA002		EC-18-19/12444	Page No. 1/2
Customer	Nabha Power Limited PO Box 28 Near Village-Nafash Dist Patiala, Rajpura-140101		
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018		
Type of Sample	Ambient Air		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	22/12/2018 to 23/12/2018		
Sampling Location	Near Storm Water Sump		
Sampling Protocol	IS: 11255 (Pt-1) 1985 Reaff. 2003/CPCB Guidelines & Customer's Requirements		
Date of Receipt of Sample	24/12/2018		
Period of Analysis	24/12/2018 To 28/12/2018		
Date of Reporting	31/12/2018		
Testing Protocol	NAAQS 2009		
Environmental Condition	Clear sky & cold conditions.		

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m ³	85	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m ³	52	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO ₂)	µg/m ³	19	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m ³	28	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH ₃)	µg/m ³	17	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O ₃)	µg/m ³	14	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m ³	BDL (DL 1.5)	04	Lab SOP: EL/SOP/AAQ/03
8	Lead (Pb)	µg/m ³	BDL (DL 0.04)	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m ³	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m ³	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C ₆ H ₆)	pg/m ³	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP). Particulate	ng/m ³	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

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ECO BHAWAN

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Test Report No. :EL241218GA002		EC-CST/12444			Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
12	Phase Only				


Remarks (if any) BDL Below Detection Limit, DL-Detection Limit

Please refer "Terms & Conditions" on back side of Test Report (Page-1).

End of Report


Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.


Authorized Signatory

For Client's Purpose



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL241218GA003	EC-23-19/18445	Page No. 1/2
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala, Rajpura-140101	
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	22/12/2018 to 23/12/2018	
Sampling Location	Near Loco Shed	
Sampling Protocol	IS: 11255 (Pt-1) 1985 Reaff. 2003/CPCB Guidelines & Customer's Requirements	
Date of Receipt of Sample	24/12/2018	
Period of Analysis	24/12/2018 To 28/12/2018	
Date of Reporting	31/12/2018	
Testing Protocol	NAAQS 2009	
Environmental Condition	Clear sky & cold conditions.	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	89	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m3	55	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO2)	µg/m3	13	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m3	25	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH3)	µg/m3	18	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O3)	µg/m3	13	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m3	BDL (DL 1.5)	04	Lab SOP: EL/SOP/AAQ/03
8	Lead (Pb)	µg/m3	BDL (DL 0.04)	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m3	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m3	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C6H6)*	µg/m3	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP), Particulate	ng/m3	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

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14

Format No. F/5.10-01/01

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
Test Report No. :EL241218GA003					EC-18-19/17445	Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method	
12	Phase Only					

Remarks (if any) BDL Below Detection Limit; DL-Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).

****End of Report****


Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.


Authorized Signatory

Valid for Consent Purpose



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. :EL241218GA004	ELC-79/18446	Page No. 1/2
Customer	Nabha Power Limited PO Box 28 Near Village-Nakash Dist Patiala , Rajpura-140101	
Work Order No. & Date	NPL/47000-08931 Dt.: 18/09/2018	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	22/12/2018 to 23/12/2018	
Sampling Location	Near Switch Yard	
Sampling Protocol	IS: 11255 (Pt-1) 1985 Reaff. 2003/CPCB Guidelines & Customer's Requirements	
Date of Receipt of Sample	24/12/2018	
Period of Analysis	24/12/2018 To 28/12/2018	
Date of Reporting	31/12/2018	
Testing Protocol	NAAQS 2009	
Environmental Condition	Clear sky & cold conditions.	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	RespirableSuspended Particulate Matter (PM10)	µg/m3	86	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m3	51	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO2)	µg/m3	18	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m3	24	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH3)	µg/m3	16	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O3)	µg/m3	11	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m3	BDL (DL 1.5)	04	Lab SOP: EL/SOP/AAQ/03
8	Lead (Pb)	µg/m3	BDL (DL 0.04)	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m3	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m3	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C6H6)*	µg/m3	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP), Particulate	ng/m3	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

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Test Report No. : EL241218GA004					EC-18-19/17446	Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method	
12	Phase Only					

Remarks (if any) BDL Below Detection Limit; DL-Detection Limit
Please refer "Terms & Conditions" on back side of Test Report (Page-1).

End of Report

For Eco Laboratories & Consultants Pvt. Ltd.


Lab Incharge


Authorized Signatory



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL241218GA005		EC-19/18447	Page No. 1/2
Customer	Nabha Power Limited PO Box 28 Near Village-Nafash Dist Patiala, Rajpura-140101		
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018		
Type of Sample	Ambient Air		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	23/12/2018 to 24/12/2018		
Sampling Location	Vill. Dadu Majra		
Sampling Protocol	IS: 11255 (Pt-1) 1985 Reaff. 2003/CPCB Guidelines & Customer's Requirements		
Date of Receipt of Sample	24/12/2018		
Period of Analysis	24/12/2018 To 28/12/2018		
Date of Reporting	31/12/2018		
Testing Protocol	NAAQS 2009		
Environmental Condition	Clear sky & cold conditions.		

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m ³	81	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m ³	44	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO ₂)	µg/m ³	11	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m ³	20	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH ₃)	µg/m ³	19	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O ₃)	µg/m ³	14	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m ³	BDL (DL 1.5)	04	Lab SOP: EL/SOP/AAQ/03
8	Lead (Pb)	µg/m ³	BDL (DL 0.04)	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m ³	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m ³	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C ₆ H ₆)*	µg/m ³	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP), Particulate	ng/m ³	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

Not Valid for Comparison

24/1

Form No. F/5.10-01/01

ECO BHAWAN

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Test Report No. :EL241218GA005		EC-16-19/19447			Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
12	Phase Only				

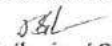
Remarks (if any) BDL Below Detection Limit; DL-Detection Limit

Please refer "Terms & Conditions" on back side of Test Report (Page-1).

****End of Report****

For Eco Laboratories & Consultants Pvt. Ltd.


Lab Incharge


Authorized Signatory

Valid for Consent Purpose



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL241218GA006		EC-18-101/17448	Page No. 1/2
Customer	Nabha Power Limited PO Box 28 Near Village-Nalash Dist Patiala, Rajpura-140101		
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018		
Type of Sample	Ambient Air		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	23/12/2018 to 24/12/2018		
Sampling Location	Vill. Salempur		
Sampling Protocol	IS: 11255 (Pt-1) 1985 Reaff. 2003/CPCB Guidelines & Customer's Requirements		
Date of Receipt of Sample	24/12/2018		
Period of Analysis	24/12/2018 To 28/12/2018		
Date of Reporting	31/12/2018		
Testing Protocol	NAAQS 2009		
Environmental Condition	Clear sky & cold conditions.		

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	83	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m3	49	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO2)	µg/m3	13	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m3	24	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH3)	µg/m3	16	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O3)	µg/m3	12	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m3	BDL (DL 1.5)	04	Lab SOP: EL/SOP/AAQ/03
8	Lead (Pb)	µg/m3	BDL (DL 0.04)	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m3	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m3	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C6H6)*	µg/m3	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP), Particulate	ng/m3	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

Not Valid for any other purpose

18

Formal No. F/5.10-01/01

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

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Test Report No. : EL241218GA006		EC-15-10/17448			Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
12	Phase Only				


Remarks (if any) BDL Below Detection Limit; DL-Detection Limit

Please refer "Terms & Conditions" on back side of Test Report (Page-1).

****End of Report****


Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.


Authorized Signatory

Valid for Consent Purpose



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Test Report No. : EL241218GA007		EL-18-19/12449	Page No. 1/2
Customer	Nabha Power Limited PO Box 28 Near Village-Nafash Dist Patiala, Rajpura-140101		
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018		
Type of Sample	Ambient Air		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	23/12/2018 to 24/12/2018		
Sampling Location	Vill. Dabhali		
Sampling Protocol	IS: 11255 (Pt-1) 1985 Reaff. 2003/CPCB Guidelines & Customer's Requirements		
Date of Receipt of Sample	24/12/2018		
Period of Analysis	24/12/2018 To 28/12/2018		
Date of Reporting	31/12/2018		
Testing Protocol	NAAQS 2009		
Environmental Condition	Clear sky & cold conditions.		

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Respirable Suspended Particulate Matter (PM10)	µg/m3	84	100	IS 5182 : Part-23:2006 RA 2017
2	Particulate Matter (PM2.5)	µg/m3	49	60	Lab SOP: EL/SOP/AAQ/01
3	Sulphur Dioxide (SO2)	µg/m3	10	80	IS 5182 : Part-2:2001, RA 2017
4	Oxides of Nitrogen	µg/m3	22	80	IS 5182: Part-6:2006 RA2017
5	Ammonia (NH3)	µg/m3	19	400	Lab SOP: EL/SOP/AAQ/02
6	Ozone (O3)	µg/m3	9	180	IS 5182 Part-9: 1974, RA 2014
7	Carbon Monoxide (CO)	mg/m3	BDL (DL 1.5)	04	Lab SOP: EL/SOP/AAQ/03
8	Lead (Pb)	µg/m3	BDL (DL 0.04)	1.0	IS: 5182 Part-22: 2004 (RA 2014)
9	Arsenic (As)	ng/m3	BDL (DL 1)	06	Lab SOP: EL/SOP/AAQ/04
10	Nickel (Ni)	ng/m3	BDL (DL 10)	20	Lab SOP: EL/SOP/AAQ/04
11	Benzene (C6H6)*	µg/m3	BDL (DL 5)	05	IS 5182 Part-11:2006 (RA 2017)
12	Benzo Pyrene (BaP). Particulate	ng/m3	BDL (DL 1)	01	IS 5182 Part-12: 2004 RA 2014

Not Valid for Consent Purpose

✓

Formel No. F/5.10-01/01

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Test Report No. :EL241218GA007		EC-18-19/18449			Page No. 2/2
S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
12	Phase Only				


Remarks (if any) BDL Below Detection Limit; DL-Detection Limit

Please refer "Terms & Conditions" on back side of Test Report (Page-1).

End of Report


Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.


Authorized Signatory

Annexure-12

Report of Heavy Metals and Radioactive elements



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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

TEST REPORT

PPCB-Ref. No. Lab/3238897

Dated-30.09.2011



Test Report No. : EL080319GS003A		24/19-20/13724	Page No. 1/1
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101		
Work Order No. & Date	NPL/47000-06931 Dt: 18/09/2018		
Type of Sample	Coal		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	08/03/2019		
Sampling Location	From Coal Pile		
Packing, Markings, Seal & Quantity	Poly Bag Marked 'Coal' 1kg approx.		
Date of Receipt of Sample	08/03/2019		
Period of Analysis	16/03/2019 To 16/04/2019		
Date of Reporting	19/04/2019		
Sample Observation	Blackish Powder		

RESULTS

S.No.	Test Parameter*	Unit	Results	Test Method
1	Alpha Emitters	Bq/kg	Not Detected	APHA 23 rd Ed 7110B Followed by Radiation Counting System
2	Beta Emitters	Bq/kg	Not Detected	APHA 23 rd Ed 7110B Followed by Radiation Counting System
	Gamma Emitters	Bq/kg	Not Detected	APHA 23 rd Ed 7110B Followed by Radiation Counting System

Remarks (if any) * Subcontracted
Please refer terms & conditions overleaf

Not Valid for Consent Purpose

End of Report

[Signature]
Lab Incharge

[Signature]
Dr. Roopak Kumar
Authorized Signatory-Chemical

Form No. P/32/15/11/2011

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Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



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TEST REPORT



Details of Sample

Test Report No. : EL080319GS003/00		EC-19-34/13962	Page No. 1/1
Customer	Nabha Power Limited PO Box 28, Near Village-Nalash Dist Patiala, Rajpura-140101		
Work Order No. & Date	NPL/47000-06931 Dt.: 18/09/2018		
Type of Sample	Coal		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	08/03/2019		
Sampling Location	From Coal Pile		
Packing, Markings, Seal & Quantity	Poly Bag Marked 'Coal' 1kg approx.		
Date of Receipt of Sample	08/03/2019		
Period of Analysis	08/03/2019 To 12/03/2019		
Date of Reporting	12/03/2019		
Sample Observation	Blackish Powder		

RESULTS

S.No.	Test Parameter	Unit	Results	Standard	Test Method
1	Lead as Pb	mg/kg	BDL(DL-0.1)	--	Lab SOP No. EL/SOP/SS/23
2	Arsenic as As	mg/kg	BDL(DL-0.1)	--	Lab SOP No. EL/SOP/SS/23
3	Total Chromium as Cr	mg/kg	BDL(DL-0.1)	--	Lab SOP No. EL/SOP/SS/23
	Mercury as Hg	mg/Kg	BDL(DL-0.5)	--	Lab SOP No. EL/SOP/SS/23

Remarks (if any) BDL-Below Detection Limit, DL-Detection Limit
Please refer terms & conditions overleaf
*Client's Specification

End of Report

Lab Incharge

Valid for Consent Purpose

Dr. Deepak Kumar
Authorized Signatory-Chemical

Format No. F/82/15/11/2016