Environmental and Social Due Diligence Report

Project Number: 47083-004
January 2022

INDIA: Accelerating Infrastructure Investment Facility in India – Tranche 3 Shamlaji Expressway Private Limited (Part 21 of 34)

Prepared by India Infrastructure Finance Company Limited for the India Infrastructure Finance Company Limited and the Asian Development Bank.

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Rehabilitation & Up-gradation of existing carriageway of Kishangarh - Udaipur Ahmedabad section of NH - 79A, NH - 79, NH - 76 and NH - 8 for km. 0.830 on NH - 79 at Kishangarh and ends near Ahmedabad km 509.259 on NH - 8 including Udaipur Bypass in the States of Rajasthan and Gujarat by M/s NHAI

SIX MONTHLY COMPLIANCE SUBMISSION

CONCESSIONAIRE:

NATIONAL HIGHWAY AUTHORITY

EPC CONTRACTOR:

CHETAK ENTERPRISES PVT. LTD.

JANUARY 2021 TO JUNE 2021

COPY OF ENVIRONMENT CLEARANCE

F.No. 10-37/2011-IA-III
Government of India
Ministry of Environment & Forests
(IA-III Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110 003

Dated: 21st March, 2013

To
Chief General Manager (LA),
National Highways Authority of India,
G- 5&6, Sector – 10, Dwarka,
New Delhi – 110075

Subject: Environmental Clearance for rehabilitation & up-gradation of existing carriageway of Kishangarh-Udaipur-Ahmedabad section of NH-79A, NH-79, NH-76 and NH-8 for km. 0.830 on NH-79 at Kishangarh and ends near Ahmedabad km 509.259 on NH-8 including Udaipur Bypass in the States of Rajasthan and Gujarat by M/s NHAI –Reg.

This has reference to your letter No. 11013/1/2k/Env/56 dated 15.05.2012 seeking Environmental Clearance under the Environment Impact Assessment Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the Environment Impact Assessment Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form-I, EIA, EMP, Public Hearing proceedings and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meeting held on 4th – 5th June, 2012.

2. It is interalia, noted that the proposal involves rehabilitation & up-gradation of existing carriageway of Kishangarh-Udaipur-Ahmedabad section of NH-79A, NH-79, NH-76 and NH-8 for km. 0.830 on NH-79 at Kishangarh and ends near Ahmedabad Km 509.259 on NH-8 including Udaipur Bypass in the State of Rajasthan and Gujarat. The project road starts from km 0.830 on NH 79A in Kishangarh and ends in km 509.295 on NH 8 near Ahmedabad. The project road passes through Ajmer, Bhilwara, Chittorgarh, Udaipur, & Dungarpur districts of Rajasthan State and Sabarkantha & Gandhinagar districts of Gujarat State. A bypass is proposed in for Udaipur town (about 24.50km) to avoid the congestion. The bypass is start at km 117.750 of NH-76 and ends at km 287.000 of NH-8. The terrain is generally plain except some stretches on Bhilwara bypasses, near proposed Udaipur bypass, Khairwara, Bichiwara and Shamala ji, are in hilly. The existing ROW width varies generally from 30 to 60 m. The proposed ROW width is 60m generally except at toll plazas bus-bye and truck lay-bye locations. The project road does not pass through any protected area like wildlife sanctuary, national park, biosphere reserve, etc within 10 km radius area. The project road crosses river Wagan, a perennial water body. Diversion of 73.4156 ha.

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Reserved Forest (RF) land & 9.4500ha Protected Forest (PF) land will involve in Rajasthan state, and, diversion of 173.3900 ha PF (road side plantation) will involve in Gujarat state for the proposed six laning. 75.0 ha. of land has been allotted by the District Administration against the diversion of Forest land. Total 38,213 trees are likely to be felled for six laning of the project road (29,655 trees in Rajasthan State and 8,558 trees in Gujarat State). In the proposed six lane road, 9 no. existing major bridges, 254 no. existing minor bridges, 455 existing box/slab type culverts will be retained and widened/ reconstructed. Also 7 no. new major bridges, 104 no. of new minor bridges (20 on main carriageway & 84no on service roads proximity to existing main carriageway) and 30 no. new culverts are proposed to be constructed. There are additionally 38 no. vehicular underpasses and 114 no. pedestrian/ cattle underpasses are proposed in the project road. Service roads are available at 62 locations amounting to 72.30 km length. In the proposed project 65.965km of existing Length of service road are to be widened and strengthened and 444.34 km length of service road are additionally proposed. Bus Bays have been provided at 120 locations and truck lay byes at 41 locations. All major junctions (59 no.) and minor junctions (420 no.) will be improved in the project road. Toll plaza is proposed on the project road at 8 locations. Quantity of fly-ash is proposed to be utilized for embankment on the project road as per IRC-SP-58-2001 is 10,000 cum from Thermal Power Plant situated within 100 km. Thermal Power Plants which exist within 100km either side of the project road are as Surat Thermal Power Plant, Surat, Dhuvaran Thermal Power Plant, Anand, Gandhinagar Thermal Power Plant, Gandhinagar, Vankbori Thermal Power Plant, Sevalia, and Sabarmati Thermal Power Plant. For construction of the project road, estimated average water requirement is about 10,560 kl/km, which will be met mostly from surface water resources. Approximately 451.59 ha (74.78 in Gujarat and 376.81 ha in Rajasthan) land will be acquired for six laning of the project road including Udaipur bypass. There are 3,127 private properties including residential, commercial and residential-cum-commercial structures, 235 community properties, 183 religious properties within the existing ROW (22.5 to 30 meter each side from the center line of the existing carriageway) of both Rajasthan State and Gujarat State. Affected families will be compensated as per National Highways Act. The budget for environment management and monitoring has been earmarked as approximately Rs. 27.76 Crores. The estimated cost for Resettlement & Rehabilitation is approximately Rs. 344.2 Crores. The Total Civil Cost is Rs. 5,387.30 Crores. The Total Estimated Cost of the project is Rs 5,759.26 crores.

3. The proposal was examined by the EAC in its meeting held on 23rd-24th July, 2011 and finalized ToR including conduct of Public Hearing. Public Hearing conducted in Rajasthan on 13.03.2012 at Udaipur district, 16.03.2012 at Chittirgarh District, 21.03.2012 at Dungarpur District, 09.04.2012 at Bhilwara District, 16.04.2012 at Ajmer District, in Gujarat on 23.03.2012 at Sabarkantha District, 17.04.2012 at Gandhi Nagar.

4. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended

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for the grant of Environmental Clearance for the project. Accordingly, the Ministry hereby accords necessary Environmental Clearance for the above project as per the provisions of Environment Impact Assessment Notification, 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

5. **SPECIFIC CONDITIONS:**

(i) The project involves diversion of 73.415 ha of Reserve Forest land and 9.45 ha of Protected Forest land for which the proponent shall obtain the requisite FC. The proponent can execute the above project on the entire stretch located in non-forest land, provided that the proponent submits an undertaking while making application to get FC that the execution of work on non- forest land shall not be cited as a reason for grant of FC and in case FC is declined, width of the portion of road falling in the forest land will be maintained at its existing level.

(ii) The project indicates 38213 trees fall within the proposed ROW. However bare minimum shall be cut. Avenue plantation shall be carried out as per IRC (SP-21-2009) apart from statutory requirement based on land availability of land within proposed ROW. Compensatory afforestation of will be carried out Necessary prior permission shall be obtained for cutting of trees from the competent authority.

(iii) Fly ash shall be used in the project.

(iv) Explore the possibilities for utilizing the unharmful Industrial waste/slag/marble waste of the nearby vicinity viz. Hindustan Zinc Ltd in keeping the IRC norms.

(v) Rain water harvesting including oil and grease trap shall be provided. Water harvesting structures shall be located at every 500 mts along the road. Vertical drain type rainwater harvesting structures shall be set up to minimize surface runoff losses of rainwater.

(vi) R&R shall be as per the guidelines of State/Central Government.

(vii) IRC guidelines shall be followed for widening & up-gradation of road.

(viii) The responses/commitments made during public hearing shall be complied with letter and spirit.

(ix) All the recommendation of the EMP shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each

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mitigation plan shall be submitted to MoEF along with half yearly compliance report to MoEF-RO.

(x) The seismic nature of the area shall be taken into account while designing the project.

(xi) No ground water shall be used for the project. The project proponent shall obtain necessary permission from the State Irrigation Department before drawing water from the river sources for the purpose of the proposed construction activity.

(xii) Sidewalk shall be provided along the bridges.

(xiii) The drain shall be at least 1 m. away from the toe of the embankment of the road adopting IRC guidelines.

(xiv) Longitudinal drains shall be provided all along the project road to ensure proper drainage of the area. In addition, adequate number of under passes and culverts to act as cross drainage structures shall also be provided.

(xv) The solid waste generated shall be used for rehabilitating the borrow areas.

(xvi) For providing safety to the crossing animals and avoid road accidents speed breakers/rumbled strips shall be constructed at the identified locations of the animal movements. Enough hoardings and signages shall also be put up for the public and vehicles convenience.

(xvii) Minimum of three times the number of trees to be cut shall be planted. It shall be ensured that the trees planted as a part of the afforestation shall be looked after by NHAI. Tree plantation shall be of the same species/local species and survival shall be monitored. Transplantation of trees shall be carried out wherever possible. The tree plantation shall be taken up on the extreme end of the road.

(xviii) Necessary permission for tree felling from the concerned department shall be obtained before commencement of the project work and copies of the same shall be submitted to this Ministry.

(xix) Adequate number of underpasses shall be provided in the habitation areas. The details of such underpasses shall be provided to the Ministry within 6 months from the date of issue of this letter.

(xx) Necessary clearance from the State Government shall be obtained for extraction of sand from the rivers.

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(xxi) Proper signage shall be installed at appropriate locations for the convenience of the traffic movement.

(xxii) The embankments/slopes and the slopes left after cutting shall be provided with vegetative turning to avoid soil erosion.

(xxiii) The hot mix plant shall be located at least 500 mts. Away from habitation and on the barren land to avoid its adverse impact on the human population.

(xxiv) Rehabilitation and payment of compensation to the project affected people (PAPs) shall be made as per the policy of the State Government.

(xxv) Noise barriers shall be provided at appropriate locations particularly in the areas where the alignment passes through inhabited areas so as to ensure that the noise levels do not exceed the prescribed standards.

(xxvi) For road safety, IRC guidelines in respect of road signages, service roads, bus bays, inter-sections, pedestrians crossings, etc. shall be strictly adhered to.

6. **GENERAL CONDITIONS:**

(i) Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment.

(ii) Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.

(iii) Borrow sites for each quarry sites for road construction material and dump sites must be identified keeping in view the following:

(a) No excavation or dumping on private property is carried out without written consent of the owner.

(b) No excavation or dumping shall be allowed on wetlands, forest areas or other ecologically valuable or sensitive locations.

(c) Excavation work shall be done in close consultation with the Soil Conservation and Watershed Development Agencies working in the area, and

(d) Construction spoils including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such materials must be secured so that they shall not leach into the ground water.

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(iv) The construction material shall be obtained only from approved quarries. In case new quarries are to be opened, specific approvals from the competent authority shall be obtained in this regard.

(v) Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.

(vi) Borrow pits and other scars created during the road construction shall be properly levelled and treated.

(vii) Adequate financial provision must be made in the project to implement the aforesaid safeguards.

(viii) The project proponent will set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.

(ix) Full support shall be extended to the officers of this Ministry/ Regional Office, Lucknow and Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.

(x) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Offices, Lucknow and Bhopal of this Ministry regarding the implementation of the stipulated conditions.

(xi) Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.

(xii) The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.

(xiii) In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.

(xiv) The project proponents shall inform the Regional Office, Lucknow and Bhopal as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.

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(xv) A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.

(xvi) Safety provision such as bus bays, service roads intersection improvement etc., will be carried out by the project proponent. The project proponent shall provide adequate facilities as per IRC norms/guidelines.

(xvii) Rajasthan State Pollution Control Board and Gujarat State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/ Tehsildar's office for 30 days.

7. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 2006, including the amendments and rules made thereafter.

8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

9. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office, Lucknow and Bhopal of this Ministry.

10. This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

11. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

12. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.

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13. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.

14. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Office of MoEF by e-mail.

(Lalit Kapur)
Director (IA-III)

Copy to:

1. The Secretary, Department of Environment, Government of Rajasthan, Jaipur.
2. The Secretary, Department of Environment, Government of Gujarat, Gandhinagar, Gujarat
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 110 032.
4. The Member Secretary, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Dugri, Jaipur.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10-A, Gandhinagar, -382010
6. The CCF, Regional Office, Ministry of Environment & Forests , RO(CZ), Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow – 226 020.
7. The Chief Conservator of Forests, Ministry of Env & Forests, RO(WZ) E-5, Kendriya Paryavaran Bhawan,E-5, Arera Colony, Link Road-3, Ravishankar Colony, Bhopal – 462 016.
8. IA - Division, Monitoring Cell, MOEF, New Delhi - 110003.
9. Guard file.

(Lalit Kapur)
Director (IA-III)

Project Director
National Highways Authority of India
[illegible] JODHPUR (Raj.)

POINTWISE REPLY OF CONDITIONS OF ENVIRONMENT CLEARANCE

Pointwise Compliance of EC conditions issued vide letter F. No. 10-37/2011-IA-III dated 21st March 2013.

S. No.	EC Conditions	Point-Wise Reply
SPECIFIC CONDITIONS		
1.	The project involves diversion of 73. 415 ha of Reserve Forest land and 9. 45 ha of Protected Forest land for which the proponent shall obtain the requisite FC. The proponent can execute the above project on the entire stretch located in non - forest land, provided that the proponent submits an undertaking while making application to get FO that the execution of work on non - forest land shall not be cited as a reason for grant of FC and in case FC is declined, width of the portion of road falling in the forest land will be maintained at its existing level.	Forest clearance has been obtained dated 23.07.2015.
2.	The project indicates 38213 trees. fall within the proposed ROW However bare minimum shall be cut. Avenue plantation shall be carried out as per IRC (SP - 21 - 2009) apart from statutory requirement based on land availability of land within proposed ROW. Compensatory afforestation of will be carried out Necessary prior permission shall be obtained for cutting of trees from the competent authority.	All the activities will be done as per the forest clearance conditions and directions only. Compensatory plantation has been done and being implemented. • 5 times the number of trees to be felled would be planted, in the form of strip and block plantations depending on the availability of land. Plans for compensatory plantation will be drawn up in consultation with the State Forest Department. Minimum 75 percent survival rate of the saplings will be acceptable otherwise the contractor will replace all casualties at his own cost to ensure this survival percentage. The contractor will maintain the plantation till they handover the project site • The Environment Expert of IC will inspect regularly the survival rate of the plants and compliances with regards to tree plantation guidelines.
3.	Fly ash shall be used in the project.	Noted and being used as per the requirement.
4.	Explore the possibilities for utilizing the unharmful Industrial waste / slag / marble waste of the nearby	Unharmful industrial waste is proposed to be used on land filling sites.

S. No.	EC Conditions	Point-Wise Reply
	vicinity viz. Hindustan Zinc Ltd in keeping the IRC norms.	
5.	Rainwater harvesting including oil and grease trap shall be provided. Water harvesting structures shall be located at every 500 mts along the road. Vertical drain type rainwater harvesting structures shall be set up to minimize surface runoff losses of rainwater.	Rainwater harvesting will be done as per the norms and being implemented.
6.	R & R shall be as per the guidelines of State / Central Government.	All existing major bridges are proposed to be retained after carrying out necessary repairs and rehabilitation works. Repairs shall include but not limited to general cleaning of bridges and area around bridges, restoration of slopes and protective works, removal and relaying of existing wearing coat, repair and replacement of drainage spouts, construction of new crash barriers in place of old railing, reconstruction of approach slab & return wall ,providing of new expansion joints and bearings in place of old ones wherever required and repair and rehabilitation of damaged concrete of any etc. to the complete satisfaction of independent engineer.
7.	IRC guidelines shall be followed for widening & up - gradation of road.	Noted & Agreed.
8.	The responses / commitments made during public hearing shall be complied with letter and spirit.	Noted.
9.	All the recommendation of the EMP shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF along with half yearly compliance report to MoEF - RO.	Noted and being implemented as per committed in EIA report as per guidelines.
10.	The seismic nature of the area shall be taken into account while designing the project.	Noted. The site falls under zone III (as per IS 1893 (Part-I):2002), as per the Seismic Zone Map of. However, some faults specifically Neo-

S. No.	EC Conditions	Point-Wise Reply
		tectonic faults are present throughout Gujarat which could trigger earthquakes.
11.	No ground water shall be used for the project. The project proponent shall obtain necessary permission from the State Irrigation Department before drawing water from the river sources for the purpose of the proposed construction activity.	Agreed.
12.	Sidewalk shall be provided along the bridges.	Noted and being provided.
13.	The drain shall be at least 1 m. away from the toe of the embankment of the road adopting IRC guidelines.	Noted.
14.	Longitudinal drains shall be provided all along the project road to ensure proper drainage of the area. In addition, adequate number of under passes and culverts to act as cross drainage structures Pot shall also be provided.	Noted and being implemented.
15.	The solid waste generated shall be used for rehabilitating the borrow areas.	Agreed.
16.	For providing safety to the crossing animals and avoid road accidents speed breakers / rumbled strips shall be constructed at the identified locations of the animal movements. Enough hoardings and signages shall also be put up for the public and vehicles convenience.	Agreed and being provided.
17.	Minimum of three times the number of trees to be cut shall be planted. It shall be ensured that the trees planted as a part of the afforestation shall be looked after by NHAI. Tree plantation shall be of the same species / local species and survival shall be monitored. Transplantation of trees shall be carried out wherever possible. The tree plantation shall be taken up on the extreme end of the road.	Tree plantation is the major priority of the NHAI as it is the most concerned part of the project. Tree plantation is adopted of the same species / local species and survival is being monitored. Transplantation of trees is being carried out wherever possible.
18.	Necessary permission for free telling from the concerned department shall be obtained before commencement of the project work and copies of the same shall be submitted to this Ministry.	Forest clearance has been obtained and all the activities are being done as per the norms.
19.	Adequate number of underpasses shall be provided in the habitation areas. The details of such	Noted.

S. No.	EC Conditions	Point-Wise Reply
	underpasses shall be provided to the Ministry within 6 months from the date of issue of this letter.	All existing vehicular underpasses are proposed to be retained after carrying out necessary repairs and rehabilitation works. Repairs shall include but not limited to general cleaning of underpasses, repairing/replacement of the Crash barrier/railing and wearing coat.
20.	Necessary clearance from the State Government shall be obtained for extraction of sand from the rivers.	NOCs are obtained from the concerned departments.
21.	Proper signage shall be installed at appropriate locations for the convenience of the traffic movement.	Noted. Approximate 15 crores are proposed for the traffic signs, markings and other road appurtenances.
22.	The embankments / slopes and the slopes Left after cutting shall be provided with vegetative turning to avoid soil erosion.	Agreed.
23.	The hot mix plant shall be located at least 500 mts. Away from habitation and on the barren land to avoid its adverse impact on the human population.	Hot mix plats were installed as per the norms on barren land.
24.	Rehabilitation and payment of compensation to the project affected people (PAPs) shall be made as per the policy of the State Government.	Noted.
25.	Noise barriers shall be provided at appropriate locations particularly in the areas where the alignment passes through inhabited areas so as to ensure that the noise levels do not exceed the prescribed standards.	The Concessionaire will confirm the following: • Servicing of all construction vehicles and machinery will be done for exhaust silencers and will be checked and if found defective will be replaced. • All construction sites within 150 m of the nearest habitation, noisy construction work such as crushing; concrete mixing will be stopped during the night time between 10.00 pm to 6.00 am. • No noisy construction activities will be permitted around educational institutions/health canters (silence

S. No.	EC Conditions	Point-Wise Reply
		zones) up to 100 m from the sensitive receptors. • Monitoring shall be carried out at the construction sites as per the monitoring schedule and results will be submitted to IC and PIU. • Environmental Expert will be required to inspect regularly to ensure the compliance of EMP.
26.	For road safety, IRC guidelines in respect of road signages, service roads, bus bays, inter - sections, pedestrians crossings, etc. shall be strictly adhered to.	Noted and being complied. • Protective footwear and protective goggles to all workers employed on asphalt materials, cement, concrete etc. • Protective goggles and clothing to workers engaged in store breaking activities. • Earplugs to workers exposed to loud noise, and workers working in crushing, compaction, or concrete mixing operation. • Adequate safety measures for workers during handling of materials at site. • The Concessionaire will comply with all the precautions as required for ensuring the safety of the workmen as per the International Labour Organization (ILO). • The Concessionaire will also ensure that no paint containing lead or lead products is used except in the form of paste or readymade paint. They will provide facemasks for use to the workers when paint is applied in the form of spray or a surface having lead paint is rubbed and scraped. The Concessionaire will mark 'no smoking' in high risk areas and enforce noncompliance of use of PPE

S. No.	EC Conditions	Point-Wise Reply
		with zero tolerance. These will be reflected in the construction Safety Plan to be prepared by the Concessionaire during mobilization and will be approved by IC and PIU. • The Concessionaire will take all necessary measures for the safety of traffic during construction and provide, erect and maintain such barricades, including signs, markings, flags, lights and flagmen as proposed in the Traffic Control Plan/Drawings and as required by the Environmental Expert of IC for the information and protection of traffic approaching or passing through the section of any existing cross roads. • The Concessionaire will ensure that all signs, barricades, pavement markings are provided as per the MoRTH specifications or as directed by the Engineer., a Traffic Management Plan will be devised and implemented to the satisfaction of the Concessionaire's vehicle drivers must be strictly controlled particularly when plying on local/village roads.
GENERAL CONDITIONS:		
1.	Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment.	Noted. All the activities will be done as per commitment done in EMP and norms.
2.	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Noted.
3.	Borrow sites for each quarry sites for road construction material and dump site ' s must be identified keeping in view the following.	Noted.

S. No.	EC Conditions	Point-Wise Reply
a)	No excavation or dumping on private property is carried out without written consent of the owner.	Agreed.
b)	No excavation or dumping shall be allowed on wetlands, forest areas or other ecologically valuable or sensitive locations.	Agreed.
c)	Excavation work shall be done in close consultation with the Soil Conservation and Watershed Development Agencies working in the area, and.	Agreed. Soil study was done before initiation of work and all the activities are being done as per norms.
d)	Construction spoils including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such materials must be secured so that they shall not leach into the ground water.	Construction spoils including bituminous material and other hazardous materials are not allowed to contaminate water courses and the dump sites for such materials are secured so that they shall not leach into the ground water.
e)	The construction material shall be obtained only from approved quarries. In case new quarries are to be opened, specific approvals from the competent authority shall be obtained in this regard.	Noted.
f)	Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.	Only covered vehicles allowed for transport the material.
g)	Borrow pits and other scars created during the road construction shall be properly levelled and treated.	Noted.
h)	Adequate financial provision must be made in the project to implement the aforesaid safeguards.	Noted. Activities to be done only as per EMP and financial closure.
i)	The project proponent will set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Noted. Environment Management Plan has been prepared and being implemented.
j)	Full support shall be extended to the officers of this Ministry / Regional Office, Lucknow and Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in	Noted.

S. No.	EC Conditions	Point-Wise Reply
	respect of mitigation measures and other environmental protection activities.	
k)	A six - Monthly monitoring report shall need to be submitted by the project proponents to the Regional Offices, Lucknow and Bhopal of this Ministry regarding the implementation of the stipulated conditions.	Monitoring is being done by third party (NABL approved laboratory) and six-monthly reports are being submitted as per the norms to concerned authorities.
l)	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary, in the interest of environment and the same shall be complied with.	Agreed.
m)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Agreed.
n)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	Agreed.
o)	The project proponents shall inform the Regional Office, Lucknow and Bhopal as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Agreed.
p)	A copy of the clearance letter shall be marked to concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been made received while processing the proposal.	Agreed. Published and availed to the concerned authorities.
q)	Safety provision such as bus bays, service roads intersection improvement etc., will be carried out by the project proponent, the project proponent shall provide adequate facilities as per IRC norms / guidelines.	Agreed.
r)	Rajasthan State Pollution Control Board and Gujarat State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office Tehsildar's office for 30 days.	Agreed.

S. No.	EC Conditions	Point-Wise Reply
4.	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 2006, including the amendments and rules made thereafter.	All the permissions are obtained from concerned authorities as per the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 2006, including the amendments and rules made thereafter.
5.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Noted and approvals are obtained.
6.	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.Envfor.nic.in; The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office, Lucknow and Bhopal of this Ministry.	Noted and complied.
7.	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Versus Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.	Agreed.
8.	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed and noted.

S. No.	EC Conditions	Point-Wise Reply
9.	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Noted.
10.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Six monthly compliance is being submitted to the concerned authorities in soft copy and hard copy as well.
11.	The environmental statement for each financial year ending 31st March in Form -V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sell lo the respective Regional Office of MoEF by e – mail.	Noted and being complied.

MONITORING REPORTS

ENVIRONMENT POLLUTION ANALYSIS LAB

(AN ISO 9001, ISO 14001, OHSAS 18001, NABL CERTIFIED LAB)

Job Description : Environmental Testing, Factory Act (Rajasthan, Haryana & Punjab), ETP/STP Manufacturing & Operation Work etc.

Mob. No. : +91-7062303278,+91-9759427231, E-mail :pollutionanalysislab@gmail.com, Info@pollutionlab.co.in

TEST CERTIFICATE

Project Name & Address:-

SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2630	**Report No:-**	EPAL/21/2135

AMBIENT AIR ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1. **Type of the Sample**	:	Ambient Air Sample
2. **Map Coordinates**	:	**23° 14'39"N, 72°44'24"E**
3. **Point of Sample Collection**	:	**Mota Chiloda**
4. **Purpose of Analysis**	:	Monitoring
5. **Sample Collected/ Supplied by**	:	Lab Rep.
6. **Method of sampling**	:	IS : 5182 (P-14)

B. TEST RESULTS:

Sr. No.	Parameters	Results	Std. Limit	Protocol Used
1	Particulate Matter(PM_{10}) ($\mu g/m^3$)	146.2	100	IS: 5182,(P-23)
2	Particulate Matter($PM_{2.5}$) ($\mu g/m^3$)	54.1	60	CPCB Guidelines (Vol.-1)
3	Sulphur Dioxide (SOX) ($\mu g/m^3$)	14.6	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX) ($\mu g/m^3$)	21.6	80	IS: 5182,(P-6)
5	Carbon Mono Oxide (CO) (mg/m^3)	1.26	4	CO Meter

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
02. Sample will be destroyed one month from the date of issue of test certificate.
03. Any complaints about this report should be communicated within 7 days of issue of this report.
04. The report is not to be reproduced- wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.

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TEST CERTIFICATE

Project Name & Address:-

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Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2631	**Report No:-**	EPAL/21/2136

AMBIENT AIR ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1. **Type of the Sample**	:	Ambient Air Sample
2. **Map Coordinates**	:	**23° 11'16"N, 72°42'39"E**
3. **Point of Sample Collection**	:	**Majra**
4. **Purpose of Analysis**	:	Monitoring
5. **Sample Collected/ Supplied by**	:	Lab Rep.
6. **Method of sampling**	:	IS : 5182 (P-14)

B. TEST RESULTS:

Sr. No.	Parameters	Results	Std. Limit	Protocol Used
1	Particulate Matter(PM_{10}) ($\mu g/m^3$)	136.8	100	IS: 5182,(P-23)
2	Particulate Matter($PM_{2.5}$) ($\mu g/m^3$)	50.6	60	CPCB Guidelines (Vol.-I)
3	Sulphur Dioxide (SOX) ($\mu g/m^3$)	12.1	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX) ($\mu g/m^3$)	22.0	80	IS: 5182,(P-6)
5	Carbon Mono Oxide (CO) (mg/m^3)	1.18	4	CO Meter

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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TEST CERTIFICATE

Project Name & Address:-

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Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2632	**Report No:-**	EPAL/21/2137

AMBIENT AIR ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1. **Type of the Sample**	:	Ambient Air Sample
2. **Map Coordinates**	:	**23° 27'9"N, 72°52'3"E**
3. **Point of Sample Collection**	:	**Prantij**
4. **Purpose of Analysis**	:	Monitoring
5. **Sample Collected/ Supplied by**	:	Lab Rep.
6. **Method of sampling**	:	IS : 5182 (P-14)

B. TEST RESULTS:

Sr. No.	Parameters	Results	Std. Limit	Protocol Used
1	Particulate Matter(PM_{10}) ($\mu g/m^3$)	138.2	100	IS: 5182,(P-23)
2	Particulate Matter($PM_{2.5}$) ($\mu g/m^3$)	57.1	60	CPCB Guidelines (Vol.-1)
3	Sulphur Dioxide (SOX) ($\mu g/m^3$)	11.8	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX) ($\mu g/m^3$)	29.0	80	IS: 5182,(P-6)
5	Carbon Mono Oxide (CO) (mg/m^3)	1.08	4	CO Meter

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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TEST CERTIFICATE

Project Name & Address:-

SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2633	**Report No:-**	EPAL/21/2138

AMBIENT AIR ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1. **Type of the Sample**	:	Ambient Air Sample
2. **Map Coordinates**	:	**23° 36'07.3"N, 72°10'57.0"E**
3. **Point of Sample Collection**	:	**Gadhoda Camp**
4. **Purpose of Analysis**	:	Monitoring
5. **Sample Collected/ Supplied by**	:	Lab Rep.
6. **Method of sampling**	:	IS : 5182 (P-14)

B. TEST RESULTS:

Sr. No.	Parameters	Results	Std. Limit	Protocol Used
1	Particulate Matter(PM_{10}) ($\mu g/m^3$)	136.8	100	IS: 5182,(P-23)
2	Particulate Matter($PM_{2.5}$) ($\mu g/m^3$)	55.4	60	CPCB Guidelines (Vol.-1)
3	Sulphur Dioxide (SOX) ($\mu g/m^3$)	13.6	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX) ($\mu g/m^3$)	23.0	80	IS: 5182,(P-6)
5	Carbon Mono Oxide (CO) (mg/m^3)	1.14	4	CO Meter

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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TEST CERTIFICATE

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SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2634	**Report No:-**	EPAL/21/2139

AMBIENT AIR ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1. **Type of the Sample**	:	Ambient Air Sample
2. **Map Coordinates**	:	**23° 34'5"N, 73°5'56"E**
3. **Point of Sample Collection**	:	**Gamboi**
4. **Purpose of Analysis**	:	Monitoring
5. **Sample Collected/ Supplied by**	:	Lab Rep.
6. **Method of sampling**	:	IS : 5182 (P-14)

B. TEST RESULTS:

Sr. No.	Parameters	Results	Std. Limit	Protocol Used
1	Particulate Matter(PM_{10}) ($\mu g/m^3$)	140.0	100	IS: 5182,(P-23)
2	Particulate Matter($PM_{2.5}$) ($\mu g/m^3$)	57.6	60	CPCB Guidelines (Vol.-I)
3	Sulphur Dioxide (SOX) ($\mu g/m^3$)	16.8	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX) ($\mu g/m^3$)	26.2	80	IS: 5182,(P-6)
5	Carbon Mono Oxide (CO) (mg/m^3)	1.32	4	CO Meter

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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TEST CERTIFICATE

Project Name & Address:-

SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2635	**Report No:-**	EPAL/21/2140

AMBIENT AIR ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1. **Type of the Sample**	:	Ambient Air Sample
2. **Map Coordinates**	:	**23° 38'45"N, 73°18'25"E**
3. **Point of Sample Collection**	:	**Asal Camp**
4. **Purpose of Analysis**	:	Monitoring
5. **Sample Collected/ Supplied by**	:	Lab Rep.
6. **Method of sampling**	:	IS : 5182 (P-14)

B. TEST RESULTS:

Sr. No.	Parameters	Results	Std. Limit	Protocol Used
1	Particulate Matter (PM_{10}) ($\mu g/m^3$)	132.1	100	IS: 5182,(P-23)
2	Particulate Matter ($PM_{2.5}$) ($\mu g/m^3$)	54.6	60	CPCB Guidelines (Vol.-1)
3	Sulphur Dioxide (SOX) ($\mu g/m^3$)	12.8	80	IS: 5182,(P-2)
4	Nitrogen Dioxide (NOX) ($\mu g/m^3$)	20.4	80	IS: 5182,(P-6)
5	Carbon Mono Oxide (CO) (mg/m^3)	1.24	4	CO Meter

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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TEST CERTIFICATE

Project Name & Address:-

SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date :-	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2636	**Report No:-**	EPAL/21/2141

NOISE LEVEL MONITROING TEST REPORT

A. SAMPLE PARTICULARS:

1.	**Type of the Sample**	:	Noise level (Ambient)
2.	**Map Coordinate**	:	**23° 14'39"N, 72°44'24"E**
3.	**Sampling Location**	:	**Mota Chiloda**
4.	**Purpose of Analysis**	:	Monitoring
5.	**Sample Collected/ Supplied by**	:	Lab Rep.

B. TEST RESULTS:

Noise Location	Day			Night		
	L Max	L Mim	L equ	L Max	L Min	L equ
Motal Chiloda	58.8	46.1	52.4	38.4	30.2	34.3

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note :- * Day time mean 6:00 am to 10:00 pm
** Night Time mean 10:00 pm to 6:00 am

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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Job Description : Environmental Testing, Factory Act (Rajasthan, Haryana & Punjab), ETP/STP Manufacturing & Operation Work etc.

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TEST CERTIFICATE

Project Name & Address:-

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Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2637	**Report No:-**	EPAL/21/2142

NOISE LEVEL MONITROING TEST REPORT

A. SAMPLE PARTICULARS:

1.	**Type of the Sample**	:	Noise level (Ambient)
2.	**Map Coordinate**	:	**23° 11'16"N, 72°33'39.8"E**
3.	**Sampling Location**	:	**Majra Chowki**
4.	**Purpose of Analysis**	:	Monitoring
5.	**Sample Collected/ Supplied by**	:	Lab Rep.

B. TEST RESULTS:

Noise Location	Day			Night		
	L Max	L Mim	L equ	L Max	L Min	L equ
Majra	56.4	42.8	49.6	40.1	31.6	35.8

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note :- * Day time mean 6:00 am to 10:00 pm
** Night Time mean 10:00 pm to 6:00 am

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2638	**Report No:-**	EPAL/21/2143

NOISE LEVEL MONITROING TEST REPORT

A. SAMPLE PARTICULARS:

1. **Type of the Sample**	:	Noise level (Ambient)
2. **Map Coordinate**	:	**23° 27'9"N, 72°52'3"E**
3. **Sampling Location**	:	**Prantij**
4. **Purpose of Analysis**	:	Monitoring
5. **Sample Collected/ Supplied by**	:	Lab Rep.

B. TEST RESULTS:

Noise Location	Day			Night		
	L Max	L Mim	L equ	L Max	L Min	L equ
Prantij	60.2	46.4	53.3	38.6	29.4	34.0

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note :- * Day time mean 6:00 am to 10:00 pm
** Night Time mean 10:00 pm to 6:00 am

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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TEST CERTIFICATE

Project Name & Address:-

SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2639	**Report No:-**	EPAL/21/2144

NOISE LEVEL MONITROING TEST REPORT

A. SAMPLE PARTICULARS:

1.	**Type of the Sample**	:	Noise level (Ambient)
2.	**Map Coordinate**	:	**23° 36'07.3"N, 72°10'57.0"E**
3.	**Sampling Location**	:	**Gadhoda Camp**
4.	**Purpose of Analysis**	:	Monitoring
5.	**Sample Collected/ Supplied by**	:	Lab Rep.

B. TEST RESULTS:

Noise Location	Day			Night		
	L Max	L Mim	L equ	L Max	L Min	L equ
Gadhoda	57.1	43.8	50.4	41.2	33.6	74.8

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note :- * Day time mean 6:00 am to 10:00 pm
** Night Time mean 10:00 pm to 6:00 am

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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(AN ISO 9001, ISO 14001, OHSAS 18001, NABL CERTIFIED LAB)

Job Description : Environmental Testing, Factory Act (Rajasthan, Haryana & Punjab), ETP/STP Manufacturing & Operation Work etc.

Mob. No. : +91-7062303278,+91-9759427231, E-mail :pollutionanalysislab@gmail.com, Info@pollutionlab.co.in

TEST CERTIFICATE

Project Name & Address:-

SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date :	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2639	**Report No:-**	EPAL/21/2144

NOISE LEVEL MONITROING TEST REPORT

A. SAMPLE PARTICULARS:

1.	**Type of the Sample**	:	Noise level (Ambient)
2.	**Map Coordinate**	:	**23° 38'32"N, 72°18'31"E**
3.	**Sampling Location**	:	**Asal Camp**
4.	**Purpose of Analysis**	:	Monitoring
5.	**Sample Collected/ Supplied by**	:	Lab Rep.

B. TEST RESULTS:

Noise Location	Day			Night		
	L Max	L Mim	L equ	L Max	L Min	L equ
Asal Camp	55.1	39.2	47.1	42.6	34.4	38.5

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note :- * Day time mean 6:00 am to 10:00 pm
** Night Time mean 10:00 pm to 6:00 am

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TEST CERTIFICATE

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SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date :	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2640	**Report No:-**	EPAL/21/2145

NOISE LEVEL MONITROING TEST REPORT

A. SAMPLE PARTICULARS:

1.	**Type of the Sample**	:	Noise level (Ambient)
2.	**Map Coordinate**	:	**23° 34'5"N, 73°5'57.0"E**
3.	**Sampling Location**	:	**Gamboi**
4.	**Purpose of Analysis**	:	Monitoring
5.	**Sample Collected/ Supplied by**	:	Lab Rep.

B. TEST RESULTS:

Noise Location	Day			Night		
	L Max	L Mim	L equ	L Max	L Min	L equ
Gamboi	56.4	39.2	47.8	39.2	30.8	35.8

Area Code	Category of Area/Zone	Limit as per E(P)A 1986 (The Noise Pollution Regulation & Control Rule, 2006) in dB (A) Leq.	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note :- * Day time mean 6:00 am to 10:00 pm
** Night Time mean 10:00 pm to 6:00 am

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TEST CERTIFICATE

Project Name & Address:-

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Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2641	**Report No:-**	EPAL/21/2146

GROUND WATER ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1	**Type of the Sample**	:	Ground Water Sample
2	**Map Coordinates**	:	**23° 11'16.0"N, 72°44'24"E**
3	**Point of Sample Collection**	:	Majra Camp
4	**Purpose of Analysis**	:	Monitoring
5	**Sample Collected/ Supplied by**	:	Lab Rep.

B. TEST RESULTS:

Sr. No.	Parameters	Unit	Results	IS 10500 :2012	
				Acceptable limits	Permissible limits
1	Turbidity	NTU	<1	1	5
2	pH	--	7.72	6.5-8.5	NR
3	Conductivity	µS/cm	1068	$	$
4	Total Dissolve Solids	mg/l	682	500	2000
5	Alkalinity as $CaCO_3$	mg/l	288.4	200	600
6	Total Hardness as $CaCO_3$	mg/l	304.1	300	600
7	Calcium as Ca	mg/l	72.9	75	200
8	Magnesium as Mg	mg/l	28.7	30	100
9	Sodium	mg/l	52	$	$
10	Potassium	mg/l	8	$	$
11	Bicarbonate	mg/l	276.4	$	$
12	Chloride as Cl	mg/l	146.2	250	1000
13	Sulphate as SO_4	mg/l	14.6	200	400
14	Nitrate as NO_3	mg/l	12.8	45	NR
15	Fluoride as F	mg/l	0.58	1.00	1.5

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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TEST CERTIFICATE

Report No:- EPAL/19/1596 **Continue Page :-02**

Sl. No.	Parameters	Unit	Results	IS 10500 :2012	
				Acceptable limits	Permissible limits
16	Phenolic compound as C_6H_5OH	mg/l	BDL	0.001	0.002
17	Cyanide	mg/l	BDL	0.05	NR
18	Aluminum	mg/l	BDL	0.03	0.2
19	Arsenic	mg/l	BDL	0.01	0.05
20	Cadmium	mg/l	BDL	0.003	NR
21	Chromium as Cr^{+6}	mg/l	BDL	0.05	NR
22	Iron	mg/l	0.21	0.3	NR
23	Copper	mg/l	BDL	0.05	1.5
24	Lead	mg/l	BDL	0.01	NR
25	Manganese	mg/l	BDL	0.1	0.3
26	Mercury	mg/l	BDL	0.001	NR
27	Zinc	mg/l	2.1	5	15

Remarks: **BDL** – Below Detection Limit
BDL Limit :- 0.001
$ - Not Specified

Checked By

Approved By

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TEST CERTIFICATE

Project Name & Address:-

SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2642	**Report No:-**	EPAL/21/2147

GROUND WATER ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1	**Type of the Sample**	:	Ground Water Sample
2	**Map Coordinates**	:	**23° 26'46.7"N, 72°50'50.5"E**
3	**Point of Sample Collection**	:	**Prantij**
4	**Purpose of Analysis**	:	Monitoring
5	**Sample Collected/ Supplied by**	:	Lab Rep.

B. TEST RESULTS:

Sl. No.	Parameters	Unit	Results	IS 10500 :2012	
				Acceptable limits	Permissible limits
1	Turbidity	NTU	<1	1	5
2	pH	--	7.58	6.5-8.5	NR
3	Conductivity	µS/cm	1042.0	$	$
4	Total Dissolve Solids	mg/l	678	500	2000
5	Alkalinity as $CaCO_3$	mg/l	298.1	200	600
6	Total Hardness as $CaCO_3$	mg/l	312.6	300	600
7	Calcium as Ca	mg/l	74.8	75	200
8	Magnesium as Mg	mg/l	30.4	30	100
9	Sodium	mg/l	54	$	$
10	Potassium	mg/l	10	$	$
11	Bicarbonate	mg/l	290.4	$	$
12	Chloride as Cl	mg/l	138.2	250	1000
13	Sulphate as SO_4	mg/l	9.6	200	400
14	Nitrate as NO_3	mg/l	2.0	45	NR
15	Fluoride as F	mg/l	0.24	1.00	1.5

Checked By

Approved By

Note: 01. The result listed refer only to the tested samples and applicable parameters.
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TEST CERTIFICATE

Report No:- EPAL/19/1597

Continue Page :-02

Sl. No.	Parameters	Unit	Results	IS 10500 :2012	
				Acceptable limits	Permissible limits
16	Phenolic compound as C_6H_5OH	mg/l	BDL	0.001	0.002
17	Cyanide	mg/l	BDL	0.05	NR
18	Aluminum	mg/l	BDL	0.03	0.2
19	Arsenic	mg/l	BDL	0.01	0.05
20	Cadmium	mg/l	BDL	0.003	NR
21	Chromium as Cr^{+6}	mg/l	BDL	0.05	NR
22	Iron	mg/l	0.15	0.3	NR
23	Copper	mg/l	BDL	0.05	1.5
24	Lead	mg/l	BDL	0.01	NR
25	Manganese	mg/l	BDL	0.1	0.3
26	Mercury	mg/l	BDL	0.001	NR
27	Zinc	mg/l	1.48	5	15

Remarks: **BDL** – Below Detection Limit
BDL Limit :- 0.001
$ - Not Specified

Checked By

Approved By

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TEST CERTIFICATE

Project Name & Address:-

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Sample Receipt Date :	- 15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2643	**Report No:-**	EPAL/21/2148

GROUND WATER ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1	**Type of the Sample**	:	Ground Water Sample
2	**Map Coordinates**	:	**23° 33'3"N, 73°6'22"E**
3	**Point of Sample Collection**	:	**Gamboi**
4	**Purpose of Analysis**	:	Monitoring
5	**Sample Collected/ Supplied by**	:	Lab Rep.

B. TEST RESULTS:

Sl. No.	Parameters	Unit	Results	IS 10500 :2012	
				Acceptable limits	Permissible limits
1	Turbidity	NTU	<1	1	5
2	pH	–	7.60	6.5-8.5	NR
3	Conductivity	µS/cm	986.2	$	$
4	Total Dissolve Solids	mg/l	642	500	2000
5	Alkalinity as $CaCO_3$	mg/l	306.4	200	600
6	Total Hardness as $CaCO_3$	mg/l	318.6	300	600
7	Calcium as Ca	mg/l	76.0	75	200
8	Magnesium as Mg	mg/l	30.2	30	100
9	Sodium	mg/l	58	$	$
10	Potassium	mg/l	12	$	$
11	Bicarbonate	mg/l	296.1	$	$
12	Chloride as Cl	mg/l	146.2	250	1000
13	Sulphate as SO_4	mg/l	10.4	200	400
14	Nitrate as NO_3	mg/l	2.6	45	NR

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TEST CERTIFICATE

Sl. No.	Parameters	Unit	Results	IS 10500 :2012	
				Acceptable limits	Permissible limits
15	Fluoride as F	mg/l	0.21	1.00	1.5

Report No:- EPAL/19/1597

Continue Page :-02

Sl. No.	Parameters	Unit	Results	IS 10500 :2012	
				Acceptable limits	Permissible limits
16	Phenolic compound as C_6H_5OH	mg/l	BDL	0.001	0.002
17	Cyanide	mg/l	BDL	0.05	NR
18	Aluminum	mg/l	BDL	0.03	0.2
19	Arsenic	mg/l	BDL	0.01	0.05
20	Cadmium	mg/l	BDL	0.003	NR
21	Chromium as Cr^{+6}	mg/l	BDL	0.05	NR
22	Iron	mg/l	0.15	0.3	NR
23	Copper	mg/l	BDL	0.05	1.5
24	Lead	mg/l	BDL	0.01	NR
25	Manganese	mg/l	BDL	0.1	0.3
26	Mercury	mg/l	BDL	0.001	NR
27	Zinc	mg/l	1.8	5	15

Remarks: **BDL** – Below Detection Limit
BDL Limit :- 0.001
$ - Not Specified

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TEST CERTIFICATE

Project Name & Address:-

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Sample Receipt Date :	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2644	**Report No:-**	EPAL/21/2149

DG STACK EMISSION ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1. Location	:	**Majra Camp**
2. Capacity of D.G. / Make	:	62.5 KVA / Sudhir
3. Type of the Sample	:	D.G. Stack Emission
4. Type of Fuel Used	:	Diesel
5. Stack Height in Feet	:	7 Feet
7. Diameter of stack in Inch	:	4 Inch
8. Instrument Status	:	Calibrated
9. Point of Sample Collection	:	From Silencer
10. Purpose of Analysis	:	Monitoring
11. Sample Collected/ Supplied by	:	Lab Rep.

B. OBSERVATIONS:

1. Stack Temperature, °C	:	216
2. Ambient Temperature, °C	:	28
3. Flue gas velocity, m/sec	:	12.6
4. Sampling flow rate, lt./min.	:	15.0
5. Period of sampling, minutes	:	30

C. TEST RESULTS:

S.No.	Parameters	Results	Standard Limits	Protocol Used
1.	PM(Particulate Matter),gm/kwh	0.08	0.2	IS 11255(P-1)
2.	Sulphur dioxide(SO_2), gm/kwh	0.042	---	IS 11255(P-2)
3.	Oxides of Nitrogen(NO_2), gm/kwh	0.56	$NO_x + HC \leq 4.0$	IS 11255(P-7)
4.	Hydro Carbon(HC), gm/kwh	0.028		BY HC METER
5.	Carbon Mono Oxide(CO), gm/kwh	0.36	3.5	BY CO METER

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Sample Receipt Date :	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2645	**Report No:-**	EPAL/21/2150

DG STACK EMISSION ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1. Location	:	**Gadhoda Camp**
2. Capacity of D.G. / Make	:	160 KVA / Sudhir
3. Type of the Sample	:	D.G. Stack Emission
4. Type of Fuel Used	:	Diesel
5. Stack Height in Feet	:	7 Feet
7. Diameter of stack in Inch	:	6 Inch
8. Instrument Status	:	Calibrated
9. Point of Sample Collection	:	From Silencer
10. Purpose of Analysis	:	Monitoring
11. Sample Collected/ Supplied by	:	Lab Rep.

B. OBSERVATIONS:

1. Stack Temperature, °C	:	230
2. Ambient Temperature, °C	:	26
3. Flue gas velocity, m/sec	:	14.1
4. Sampling flow rate, lt./min.	:	16.0
5. Period of sampling, minutes	:	30

C. TEST RESULTS:

S.No.	Parameters	Results	Standard Limits	Protocol Used
1.	PM(Particulate Matter),gm/kwh	0.10	0.2	IS 11255(P-1)
2.	Sulphur dioxide(SO_2), gm/kwh	0.058	---	IS 11255(P-2)
3.	Oxides of Nitrogen(NO_2), gm/kwh	0.72	$NO_x + HC \leq 4.0$	IS 11255(P-7)
4.	Hydro Carbon(HC), gm/kwh	0.036		BY HC METER
5.	Carbon Mono Oxide(CO), gm/kwh	0.40	3.5	BY CO METER

Checked By

Approved By

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TEST CERTIFICATE

Project Name & Address:-

SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2646	**Report No:-**	EPAL/21/2151

DG STACK EMISSION ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1. Location	:	**Asal Camp**
2. Capacity of D.G. / Make	:	160 KVA / Sudhir
3. Type of the Sample	:	D.G. Stack Emission
4. Type of Fuel Used	:	Diesel
5. Stack Height in Feet	:	7 Feet
7. Diameter of stack in Inch	:	6 Inch
8. Instrument Status	:	Calibrated
9. Point of Sample Collection	:	From Silencer
10. Purpose of Analysis	:	Monitoring
11. Sample Collected/ Supplied by	:	Lab Rep.

B. OBSERVATIONS:

1. Stack Temperature, °C	:	226
2. Ambient Temperature, °C	:	28
3. Flue gas velocity, m/sec	:	14.8
4. Sampling flow rate, lt./min.	:	17.0
5. Period of sampling, minutes	:	30

C. TEST RESULTS:

S. No.	Parameters	Results	Standard Limits	Protocol Used
1.	PM(Particulate Matter),gm/kwh	0.12	0.2	IS 11255(P-1)
2.	Sulphur dioxide(SO_2), gm/kwh	0.064	---	IS 11255(P-2)
3.	Oxides of Nitrogen(NO_2), gm/kwh	0.84	$NO_x + HC \leq 4.0$	IS 11255(P-7)
4.	Hydro Carbon(HC), gm/kwh	0.032		BY HC METER
5.	Carbon Mono Oxide(CO), gm/kwh	0.34	3.5	BY CO METER

Checked By **Approved By**

Note: 01. The result listed refer only to the tested samples and applicable parameters.
02. Sample will be destroyed one month from the date of issue of test certificate.
03. Any complaints about this report should be communicated within 7 days of issue of this report.
04. The report is not to be reproduced- wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.

ENVIRONMENT POLLUTION ANALYSIS LAB

(AN ISO 9001, ISO 14001, OHSAS 18001, NABL CERTIFIED LAB)

Job Description : Environmental Testing, Factory Act (Rajasthan, Haryana & Punjab), ETP/STP Manufacturing & Operation Work etc.

Mob. No. : +91-7062303278,+91-9759427231, E-mail :pollutionanalysislab@gmail.com, Info@pollutionlab.co.in

TEST CERTIFICATE

Project Name & Address:-

SIX-LANNINGOF SHAMLA JI TO MOTACHILODA SECTION OF NH-08 FROM KM 401.200 TO KM 494.410 (LENGTH 93.210 KM) IN THE STATE OF GUJARAT UNDER NHDP PHASE –V (PACKAGE-VI) ON HYBRID ANNUITY MODE

Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2647	**Report No:-**	EPAL/21/2152

DG STACK EMISSION ANALYSIS REPORT

A. SAMPLE PARTICULARS:

1. Location	:	**Gamboi Camp**
2. Capacity of D.G. / Make	:	82.5 KVA / Sudhir
3. Type of the Sample	:	D.G. Stack Emission
4. Type of Fuel Used	:	Diesel
5. Stack Height in Feet	:	7 Feet
7. Diameter of stack in Inch	:	4 Inch
8. Instrument Status	:	Calibrated
9. Point of Sample Collection	:	From Silencer
10. Purpose of Analysis	:	Monitoring
11. Sample Collected/ Supplied by	:	Lab Rep.

B. OBSERVATIONS:

1. Stack Temperature, °C	:	218
2. Ambient Temperature, °C	:	28.0
3. Flue gas velocity, m/sec	:	12.6
4. Sampling flow rate, lt./min.	:	15.0
5. Period of sampling, minutes	:	30

C. TEST RESULTS:

S. No.	Parameters	Results	Standard Limits	Protocol Used
1.	PM(Particulate Matter),gm/kwh	0.10	0.2	IS 11255(P-1)
2.	Sulphur dioxide(SO_2), gm/kwh	0.048	---	IS 11255(P-2)
3.	Oxides of Nitrogen(NO_2), gm/kwh	0.62	$NO_x + HC \leq 4.0$	IS 11255(P-7)
4.	Hydro Carbon(HC), gm/kwh	0.038		BY HC METER
5.	Carbon Mono Oxide(CO), gm/kwh	0.42	3.5	BY CO METER

Checked By

Approved By

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Sample Receipt Date : -	15/03/2021	**Date of Report :-**	21/03/2021
Job Order No:-	EPAL/21/03/2648	**Report No:-**	EPAL/21/2153

NOISE LEVEL MONITROING TEST REPORT

A. SAMPLE PARTICULARS:

1. **Type of the Sample**	:	DG Noise level
2. **Map Coordinate**	:	**23° 11'16.0"N, 72°44'24"E**
3. **Sampling Location**	:	**Majra Camp**
4. **Purpose of Analysis**	:	Monitoring
5. **Sample Collected/ Supplied by**	:	Lab Rep.

B. TEST RESULTS:

Sr. No.	Location	Parameter	Min.	Max.	Avg.	Insertion Loss
1	DG Set(62.5 KVA) (Canopy door Open)	Noise level(dB)A	95.8	98.1	96.9	--
2	DG Set(62.5 KVA) (Canopy door Close)	Noise level(dB)A	68.2	71.4	69.8	27.1

Noise Limit:-Minimum insertion loss should be 25 dB(A) or maximum 75 dB(A) at the outside of DG room

Checked By

Approved By

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