

KARNATAKA INDUSTRIAL AREAS DEVELOPMENT BOARD

(A Government of Karnataka Undertaking)

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No.KIADB/JDTP/FCN:20456/5693/2021-22

Date: 13/08/2021

To,

State Level Environment Impact Assessment Authority (SEIAA)

Room No. 706, 7th Floor,

4th Gate, M. S. Building,

Bengaluru -560001, Karnataka.

Respected Sir/ Madam,

Subject: Submission of Half yearly point wise Environmental Compliance report for all the conditions stipulated in the Environmental Clearance issued with respect to Establishment of Bidadi Industrial Area, Phase- II, Sector I & II, KIADB at Ramanagara taluk and district to an extent of 636.44 Acres.

- Ref.:**
1. Environmental Clearance reference no.: SEIAA: 23: IND: 2012 dated 23rd September 2013.
 2. General Condition imposed in the Environmental Clearance for submission of Half yearly Compliance @ Condition No. 4.

With reference to above subject, it is to be informed that SEIAA has issued Environmental Clearance for Establishment of Bidadi Industrial Area, KIADB, Phase- II, Sector I & II, Ramanagara taluk and district to an extent of 636.44 Acres granted vide letter SEIAA: 23: IND: 2012 dated 23rd September, 2013.

In the said Environmental Clearance at the General Condition No. 4, it is stipulated that KIADB has to submit half yearly compliance report to all the conditions stipulated in the EC issued on 23rd September 2013.

Hence, the detailed point wise compliance report to all the conditions stipulated in the Environmental Clearance issued to Bidadi Industrial Area, Phase- II, Sector I & II, is being submitted to SEIAA and the same is attached for your kind perusal and for information.

Kindly acknowledge the same.

Yours faithfully,

Chief Engineer-1
KIADB, Bengaluru

Half Yearly Environmental Compliance Report for all the Conditions Stipulated in Environmental Clearance issued with respect to Establishment of Bidadi Industrial Area, Phase- II, Sector I & II, Ramanagara taluk and district.

For

KARNATAKA INDUSTRIAL AREAS DEVELOPMENT BOARD (KIADB)

#49, 4th & 5th Floors, 'East Wing', Khanija Bhavan, Race Course Road,
Bengaluru – 560001.

Submission to

**The APCCF, Regional office,
Ministry of Environment, Forest and Climate Change (MoEF&CC)**

Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block,
Bangalore- 560 034.

Prepared by

ROBUST MATERIALS TECHNOLOGY PRIVATE LIMITED

(A MoEF&CC, DSIR-Recognized | FSSAI, ISO 45001:2018-Certified | NABL-Accredited | Drugs Control
Department- Approved Company.)

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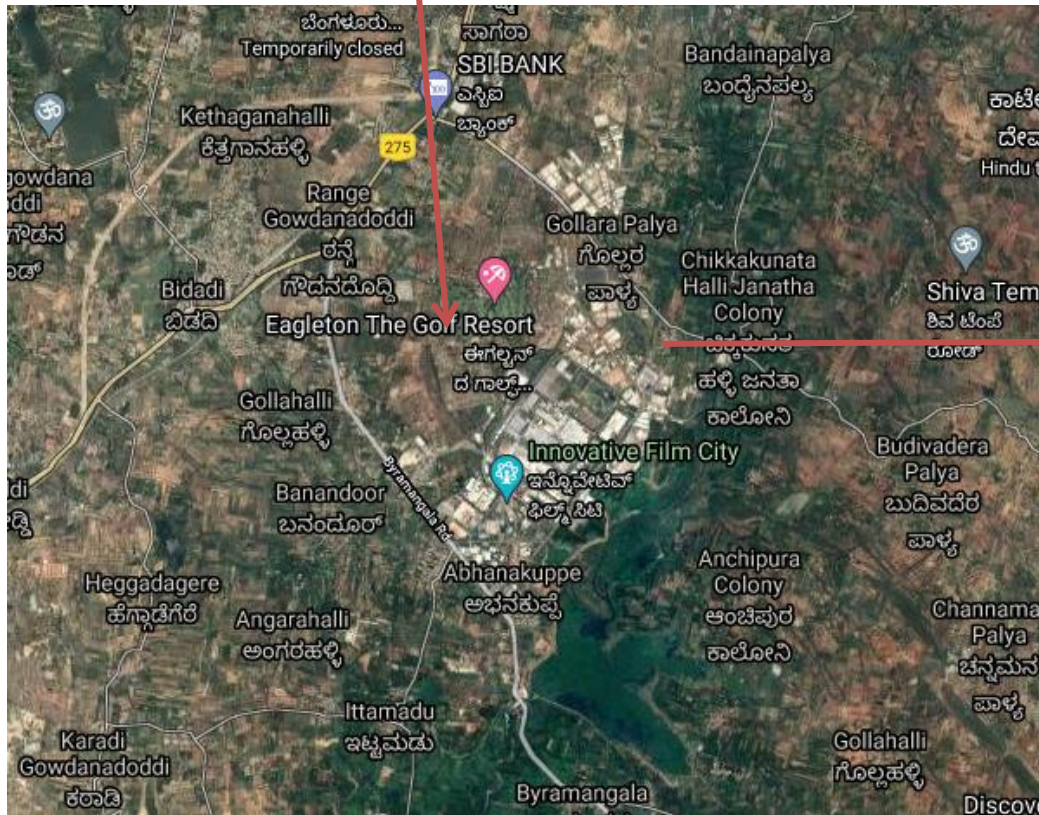
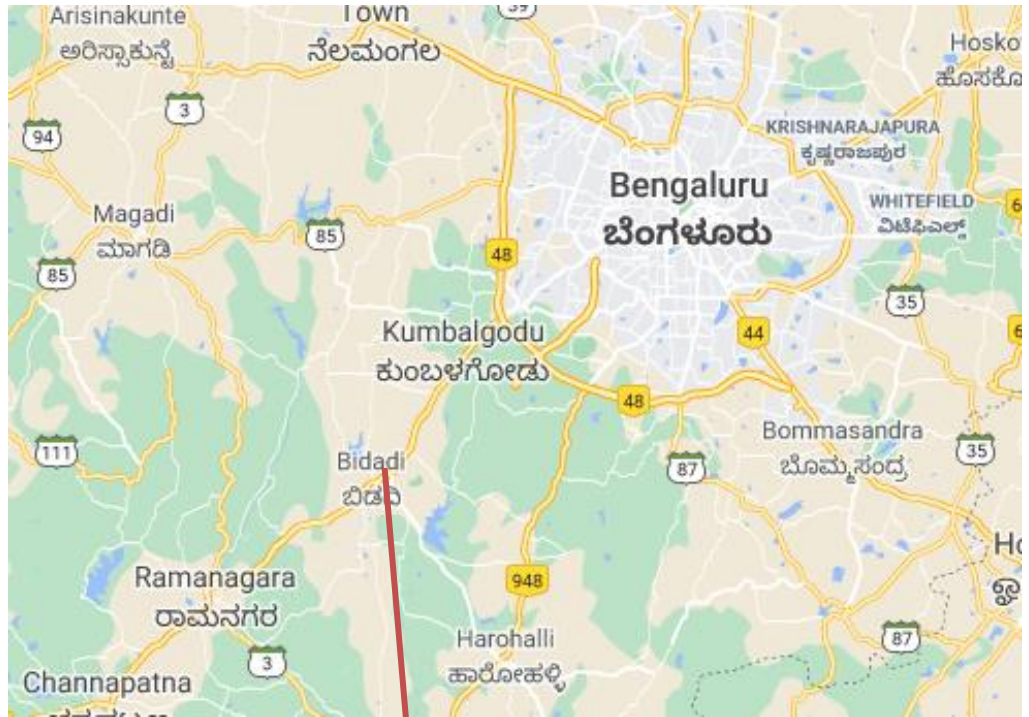
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1.0. PROJECT DETAILS:

- 1) Name of the Project:** Development of Bidadi Industrial Area, Phase- II, Sector I & II at Survey numbers of Shanamangala, Bhimanahalli, Appanakuppe, Talakuppe, Billakempanahalli, Banandur villages of Bidadi hobli, Ramanagara taluk & district.
- 2) Environmental Clearance reference no.:** SEIAA: 23: IND: 2012 dated 23rd September 2013.
- 3) Total Plot Area:** 636.44 Acres.
- 4) Category of Industries:** Orange and Green category.
- 5) Total Water requirement for the Industrial area:** 3,620 KLD (Domestic: 285 KLD + Industrial: 1,265 KLD + Gardening: 2,100 KLD).
- 6) Total Wastewater generation:** 1,150 KLD (Domestic Effluent: 260 KLD + Industrial Effluent: 890 KLD)
- 7) Total Power requirement:** 2700 KW will be sourced from KPTCL.
- 8) Project Cost:** 448 crores.
- 9) Schedule & Category:** 7 (C) & B category
- 10) Address of the Correspondence:**

Chief Development Officer & Chief Engineer,
Karnataka Industrial Areas Development Board (KIADB),
#49, 4th & 5th floors,
Khanija Bhavan, Race Course road,
Bengaluru- 560 001.

2.0. LOCATION MAP:



Bidadi Industrial Area Phase II

Fig.1: Map showing Bidadi Industrial Area Phase II.

3.0. Half Yearly Environmental Compliance Report for all the Conditions Stipulated in the Environmental Clearance issued with respect to Establishment of Bidadi Industrial Area, Phase- II, Sector I & II, Ramanagara taluk and district. (Ext- 636.44 Acres)

Sl. No.	CONDITIONS STIPULATED IN THE EC	COMPLIANCE STATUS
A	SPECIFIC CONDITIONS:	
I	Construction Phase:	
1	"Consent for Establishment" shall be obtained from Karnataka State Pollution Control Board under Air and Water Act and a copy shall be submitted to the SEIAA, Karnataka before start of any construction at the site.	Noted. Consent for Establishment from Karnataka State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, has been obtained on 21 st December 2017. Copy has been submitted to SEIAA, Karnataka.
2	Set up an Environment Management cell with appropriate lab facility shall be created as the project starts. It shall monitor all necessary parameters and activities during construction and operational phases from day one. The cell also ensures that the cell manages / maintains all the environmental aspects such as sewage treatment, solid waste disposal, maintenance of green belt areas, etc.	Complied. KIADB has already setup an Environment management cell with necessary facilities and qualified personnel to look after the Environmental aspects to ensure that there is no damage to the Environment.
3	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase. Sufficient number of toilets/bathrooms shall be provided with required mobile toilets, mobile STP for construction work force.	Complied. All necessary infrastructure facilities and basic sanitary facilities will be provided to the workers in the site during the construction phase of the industrial area.
4	A First Aid room should be provided in each of the three proposal project areas both during construction and operation phase.	Noted.
5	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	Noted. All necessary infrastructure facilities and basic sanitary facilities will be provided for all the construction workers during the construction phase. The safe disposal of wastewater and solid wastes generated during the construction phase will be ensured as per the CFE conditions.

6	Provision shall be made for the housing of construction labourers within the site with all necessary infrastructures and facilities. The housing maybe in the form of temporary structures to be removed after the completion of the project. The facilities shall include the crèche.	Complied. Mostly labours/local workers from the surrounding villages/area will be hired during the construction phase so that it is not required to provide temporary housing and Temporary Labour camps will be provided with basic sanitary facilities and water supply.
7	Provision should be made for the supply of fuel (kerosene or cooking gas); utensils such as pressure cookers etc. to the labourers during construction phase.	Noted. Required infrastructure facility and fuel will be provided to all the labourers for cooking during construction phase.
8	All the labourers to be engaged for constructions should be screened for health and adequately treated before engaging them to work at the site and detailed report submitted to SEIAA. Safety standards as per National Building Code (NBC) should be ensured.	Noted.
9	For dis-infection of wastewater which is not meant for recycling the for toilet flushing, use ultraviolet radiation and not chlorination. For treated wastewater meant for reuse for toilet flushing, disinfect by using chlorination.	Noted. During the operation phase of the industrial area, individual Industrial units will be advised to adopt these methods wherever possible for water conservation.
10	All the topsoil excavated during the construction activities should be stored for use in horticulture/ landscape development within the project site.	Complied. The topsoil excavated will be used for landscaping, levelling and plantation purposes in the project site.
11	Disposal of muck construction debris during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Noted. The construction debris will be reused / recycled for backfilling and for construction of roads and when necessary the debris will be disposed in safe and secure manner as per the Construction and Demolition rules 2016.
12	Soil and ground water samples should be tested at the project site during the construction phase to ascertain that there is no threat to ground water quality by leaching of heavy metals and or other toxic contaminants and the reports should be submitted to SEIAA.	Noted and Complied. All necessary precautions will be taken to ensure that there is no contamination of soil and ground water.

13	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	Noted. All the construction debris generated during the construction phase will be used for filling up of low lying area. However, all the construction and hazardous waste generated during the operation phase of industries will be directed to store in safe and secure manner and disposed carefully, to prevent the contamination of the ground water.
14	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.	Noted. The fuel used in the DG sets used during construction phase will have low sulphur content and it is ensured that air and noise emissions will be within the prescribed norms, so that there was no disturbance created due to operation of DG sets. DG sets with acoustic enclosures only will be used to comply with the norms.
15	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.	Complied. All the required Necessary precautions will be taken to store diesel in safe and secure manner, so that there are no accidents or harm to the environment. Individual industries in the notified area are also advised to take necessary precautions and to obtain clearances from competent authority for the safe storage of diesel.
16	Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	Individual hired vehicle owners will be directed to keep the hired vehicles in good condition and emission documents will be maintained by the vehicle owner which conforms to the prescribed standards and the workers will be advised to use the vehicles during the non-peak hours as per the guidelines of Honourable High court of Karnataka in WP. No. 1958/2011 (LB-RES-PIL) on 04.12.2012 for different activities involved in construction work.
17	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.	Contractor & all the Construction workers at the Project site will be advised to take necessary precautions and measures to reduce the noise and air emission levels, contributed during construction and adequate measures were taken to keep the emission within the stipulated standards.

18	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003.	Noted. As far as possible Fly ash will be used as building material during the construction phase. The individual Industrial units will be directed to strictly follow the provisions of Fly ash notification and use the fly ash products for building and construction purposes.
19	Ready mixed concrete must be used in building construction.	Noted.
20	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Noted.
21	Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices and only tertiary treated water shall be used for construction as per G.O. No. FEE 188 ENV 2003 dated 14.08.2003.	Noted.
22	No ground water is to be drawn without permission from the Central/ State Ground Water Authority.	Noted. Necessary permission will be obtained for digging the new Borewell from Central Ground Water Authority and no ground water will be drawn without permission from the Central/ State Ground Water Authority. Also during the operation phase, industries will also be informed about the same.
23	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	Noted and Industries operating in the area will be informed to provide dual plumbing system wherever possible for efficient use of water.
24	Treatment of 100% grey water by decentralized treatment should be done.	Noted. The issue will not arise during the construction phase, during the operation phase, Individual industries will be treating the wastewater generated in the in-house Wastewater treatment plant installed as per the requirement and it is ensured that the treated water shall meet to prescribed norms notified by competent authority.
25	The provision of Energy Conservation Building code 2006 shall be fully complied with.	Noted and will be adopted wherever possible. During the operation phase, individual industries will be provided directions before allotting the plots, so as to comply with the Energy conservation measures as per ECBC, 2006 and its amendments.
26	Roof should meet prescriptive requirement as per Energy Conservation Building Code, 2007 by using appropriate thermal insulation material.	Noted and during the operation phase, Individual industries will adopt wherever possible as per ECBC, 2007 and its amendments.

27	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, 2007 which is proposed to be mandatory for all air conditioned spaces while it is optional for non-air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	Noted and during the operation phase, individual industries will adopt wherever possible.
28	The Proponent shall obtain the construction material such as stones and jelly etc. only from the approved quarries and other construction material shall also be procured from the authorized agencies/traders.	Complied. Construction materials such as stones, jelly and other construction material will be re obtained from the approved quarries and construction materials shall also be procured from the authorized agencies /traders.
29	The proponent shall obtain approval from the competent authorities for structural safety of the buildings due to earthquake, adequacy of fire fighting equipment's, etc. as per National Building Code including protection measures from lightening etc.	Noted and the same will be informed to the industries before allotment of the plots.
30	The project authority shall ensure that no water bodies are polluted due to project activities and nala/ water bodies within the project areas are well protected with sufficient buffer.	Noted. As suggested in the EC and industrial plots allotted in the Industrial area will be advised to take care of the water bodies as part of their Corporate Environment Responsibility. No alterations of natural drainage pattern will be done during the Project Construction activities. Sufficient buffer as per eth zoning regulations of local bodies will be kept around the water bodies to prevent pollution of any water body and required area will be left untouched for natural conservation.
31	Safety standards as per National Building Code (NBC), 2005 should be followed and ensured.	Noted and followed.
32	The project Authorities shall ensure that the National Building Code, 2005 is complied with and adhered to.	Noted and followed. Individual industries will also be advised to follow the same as per instructions in NBC, 2005 and its amendments.
33	The project authorities shall not use Kharab land if any, for any purpose and keep available to the general public duly displaying a board as public property. No structure of any kind be put up in the Kharab land arid shall be afforested and maintained as green belt only.	Agreed. No such land is used by KIADB for the project proposed and green belt is developed wherever possible.

34	The authorities should include the condition while issuing plots to the prospective individual industries that they should develop greenbelt of at least 33% of the plot area.	Noted and greenbelt is developed as per the EC conditions and the condition will be included in the agreement during the allotment of plots for the projects.
35	The industrial units in the industrial area and the associated facilities shall be strictly in accordance with the norms laid down by the Karnataka State Government and KSPCB/CPCB.	Noted and being Complied. Each industrial unit will be advised to comply with the same. All industries shall follow the conditions & norms laid down by the Competent Authority.
36	The project authorities shall strictly adhere to the commitments made in the letter No. IADB/IDTP/EC/ 90/3479/2013-14 dated 04-06-2013 with regard to establishment of STP/CETP, buffer zone, green belt, conditions to be incorporated in the lease document while allotting plots to individual industries, environment safety aspects etc.	Agreed and complied as suggested with regard to establishment of STP/CETP, buffer zone, green belt. Each industrial unit was informed about the conditions with laid down with respect to Environment safety and protection and the conditions are incorporated in the lease document as well during the allotment of plots.
37	The Project Authorities shall undertake the activities towards the corporate social commitment plan made vide letter dated 11.03.2013 with total budget no less than Rs. 13 lakhs and shall be executed within a period of 2013-2017 as committed and report be submitted to the Authority.	Noted.
II Operation Phase		
1	The Company shall implement all the recommendations made in the Environmental Impact Assessment /EMP report and risk assessment report.	Noted. All the recommendations made in the Environmental Management Plan and applicable mitigation measures will be adopted wherever applicable and mitigation plans so adopted shall be included in the half yearly Compliance report and shall be submitted to the Regional Office of MoEF&CC, Bangalore.

2	<p>The installation of the Sewage Treatment Plant (STP) shall be got certified by an independent expert and a report in this regard should be submitted to the SEIAA before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of treated sewage shall conform to the norms & standards of the Karnataka State Pollution Control Board. Treated sewage should be used for flushing, gardening, etc. as proposed. Necessary measures should be made to mitigate the odour problem from STP.</p>	<p>Noted. ETP and STP of required capacity will be provided in the proposed industrial area. Required land area has already been allotted for establishment of ETP and STP at the site. At present as there are limited number of industries which are generating waste water. Once industrial area is completely occupied by all the industries and there is a sufficient load, the treatment plants will be installed. The industries transporting wastewater to CETP is also less as individual industries have agreed to install in-house STP/ ETP to treat the wastewater generated within the industry. The industries are also advised to adapt Zero Liquid discharge technology wherever possible/ applicable for efficient treatment of wastewater, so that the treated water conform to the norms and standards prescribed by KSPCB/CPCB and also so that there is zero discharge of effluent from the industry & 100% reuse/recycle of the treated water.</p>
3	<p>The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.</p>	<p>Noted. During the construction phase, all the solid wastes generated from construction activity will be collected systematically in a safe and secured manner and will be disposed to authorized vendors/ disposers. Industries are informed to follow the guidelines issued by KSPCB/ CPCB or the local authority.</p>
4	<p>Diesel power generating sets proposed as source of back-up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG-sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Karnataka State Pollution Control Board.</p>	<p>Noted. The fuel used in the DG sets used during construction phase will have low sulphur content and it will be ensured that the air and noise emissions will be within the prescribed norms, so that there was no disturbance created due to operation of DG sets. The industries are advised to install required Pollution Control Equipment's wherever necessary and acoustic enclosures are provided to DG sets to reduce the environmental pollution (Air and Noise) as per the guidelines of KSPCB/ CPCB. Stack height for DG sets are provided as per CPCB/ KSPCB norms.</p>

5	Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	Noted as suggested. Each individual industry will be informed to maintain the noise levels as per the CPCB/KSPCB norms.
6	The project proponent shall ensure that the greenery of the area is maintained. Further, 33% of the project area shall be dedicated for green belt development. The local Forest department shall be associated for this purpose and requisite budget earmarked.	Agreed. It is proposed to develop 15 m green belt all along the boundary of the industrial area. Avenue plantation in the adjoining roads can also be seen in the project site and the individual industries have also been advised to do the same in the allotted plot area. Also individual industrial units are also advised to maintain green belt for 33% of the allotted plot area as applicable.
7	Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.	Noted and weep holes will be provided as suggested. Individual industries are advised to do the same.
8	Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5mts. above the highest ground water table.	Noted. The project area and the industries proposed to operate within the area will be directed to provide with rain water harvesting systems and the industries will be advised to adopt pre-treatment facility as per the guidelines set by KSPCB/CPCB. The rainwater recharge well of sufficient capacity will be dug as per the guidelines.
9	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	Noted. Necessary approvals will be obtained from competent authority and CGWA guidelines will be followed to monitor ground water level and its quality. No permission will be provided by KIADB for new Borewell drilling without the prior approval from Central Ground Water Authority.
10	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Noted and complied as suggested. Depending on the width of the roadways in the surrounding the project site and traffic conditions in the proposed area, entry and exit points have been provided and the roads inside the project area will be well built to avoid any kind of traffic congestion. Individual industries are strictly advised to provide parking facilities only in the allotted plot areas and not to use public space.

11	A Report on the energy conservation measures confirming to energy conservation norms finalise by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc. and submit to the SEIAA, Karnataka in three months' time.	Noted and will be followed.
12	Energy conservation measures- like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.	Noted and being complied. Energy conservation measures will be adopted wherever possible. Necessary safety measures will be taken for the disposal of CFLs and TFLs or any type of waste which can result in contamination. Solar panels will be used wherever possible. Industrial units in the project area will also be advised to do the same.
13	Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.	Noted and will be followed. Necessary steps will be taken to prevent odour problem. Individual industries will also be informed to do the same.
14	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Noted. All construction and hazardous waste generated during the construction phase will be stored in safe and secure manner and disposed carefully, to prevent contamination of water environment. Individual Industrial units will also be advised to follow the same.
15	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000. All transportation of Hazardous Chemicals shall be as per the MVA, 1989. Authorization from the KSPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	Noted. Necessary approvals from the competent authority will be obtained for the safe disposal of hazardous waste as per the applicable rules and regulations.

16	The project authorities must strictly comply with rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the KSPCB must be obtained for collection/treatment/ storage/disposal of Hazardous wastes.	Agreed. Necessary authorization will be obtained by individual industries and they will be advised to strictly follow the rules and regulations made under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 & Solid Waste Management Rules, 2016. Hazardous wastes will be collected in safe and secure manner and will be disposed to authorized disposers/ recyclers /vendors etc. for safe disposal.
17	Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision of solar water heating. A hybrid system or fully solar system for lighting and heating should be provided. Details in this regard should be submitted to the SEIAA.	Noted. Solar energy will be used wherever possible for lighting and heating systems and the industries established in the project area will also be advised to use solar energy wherever applicable/possible.
18	The individual industries shall take all necessary clearances including Environment clearance in accordance with the law. The project Authority shall incorporate such condition in the lease/ sale deed/ Agreement.	Noted. Industries will be informed regarding the said condition and the condition will be mentioned in the lease or sale deed while allotting plots to the proposed projects.
19	The project authorities shall bifurcate the industrial plots and residential plots, if any with a thick and tall vegetative barrier green belt.	Noted.
20	The project-Authority shall incorporate a condition in the prospective lease/sale deed/Agreement with individual industries that they also shall abide by the conditions of this Environmental Clearance.	Noted and will be complied as suggested.
B	GENERAL CONIDITIONS:	
1	The Project authorities shall strictly adhere to the stipulations made by Karnataka State Pollution Control Board (KSPCB).	Noted. All stipulations made by the KSPCB will be strictly followed.
2	No further expansion or modifications of the industrial area shall be carried out without prior approval of the SEIAA/Ministry of Environment and Forests as the case may be.	Noted. Prior approval will be obtained from the competent authority before any modification or expansion of the project.

3	The project proponent shall also comply with all the environmental protection measures and safeguards as per the information provided.	Agreed. All necessary measures and steps will be taken for the protection of environment and conservation of natural resources
4	The implementation of the project vis-a-vis environmental action plans shall be monitored by MoEF, Regional office at Bangalore/ KSPCB/CPCB and the Department of Environment & Ecology, Bangalore. A six monthly compliance status report shall be submitted to monitoring agencies.	Noted.
5	The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA and copies of the clearance letter are available with the KSPCB and may also seen at website of the Authority at http://seiaa.Kar.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of same shall be forwarded to the MoEF Regional office at Bangalore/ KSPCB/ CPCB and the Department of Environment & Ecology, Bangalore.	Noted and complied.
6	The Project authorities shall inform the MoEF, Regional Office, Bangalore/ KSPCB/ CPCB and the department of Ecology and Environment, Bangalore, the date of financial closure and final approval from the competent authorities and the date of start of the project.	Noted and will be informed.
7	The SEIAA, Karnataka may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted.
8	The SEIAA, Karnataka reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted.
9	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control of pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance act, 1991 along their amendments and rules.	Noted.

10	The issue of Environment Clearance doesn't confer any right to the project proponent to operate/ run the project without obtaining statutory clearances/ sanctions from all other concerned Authorities.	Noted and understood. All necessary approvals will be obtained from the concerned authorities before the operation of the project and the same shall be informed to the industrial units.
11	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental (protection) Act, 1986.	Noted.
12	Any appeal against this environmental 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.	Noted.
13	Officials from the Department of Environment and Ecology, Bangalore/ Regional office of MoEF, Bangalore who would be monitoring the implementation of Environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of at the documents submitted to MoEF / SEIAA should be forwarded to the CCF, Regional office of MoEF, Bangalore / Department of Ecology and Environment, Bangalore/ Regional Officer, KSPCB Bangalore.	Noted. Required Full cooperation, facilities & all the necessary documents will be provided during the inspection and whenever required by the concerned authorities. As suggested complete set of all the required documents has been submitted to Regional Office- MoEF&CC at Bangalore.
14	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this authority.	Noted. Any changes in the project approved, will be made as a fresh appraisal in front of the Competent Authority.
15	The authority reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the environmental clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted.

16	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. All the necessary approvals and clearances applicable will be obtained from the concerned authorities. Industrial units in the project area are also strictly informed to do the same before starting any kind of activities.
17	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.	Noted.
18	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it is found that construction of the project has been started without obtaining environmental clearance.	Noted. No such activities will be carried out without the prior approval from the concerned authorities.

4.0. Environmental Monitoring Details:

The MoEF&CC/ SEIAA has made mandatory to submit Six- monthly Compliance reports for everyone who has obtained Environmental Clearance. For this purpose of preparing Compliance report and Environmental Monitoring, the KIADB has provided the work to M/s. Robust Materials Technology Pvt. Ltd. to carry out Environmental Monitoring for Industrial Areas.

4.1. Ambient Air Quality Monitoring:

The Ambient Air Quality Monitoring is carried out for parameters such as Respirable Particular Matter (PM 10), Fine Particulate Matter (PM 2.5), Sulphur Dioxide (SO₂) and Nitrogen Dioxide (NO₂) at 8 Locations and the detailed reports are attached as **Annexure-4**.

The monitoring results reveal the following pollutant concentration with respect to PM, SO_x and NO_x:

Sl. No.	Parameters	Limits (As Per NAAQS) for 24hrs	Minimum Value	Maximum Value	Average Value
1	Particulate Matter PM ₁₀ , µg/m ³	100	59.4	65.8	61.2
2	Particulate Matter PM _{2.5} , µg/m ³	60	17	23.8	21.2
3	Nitrogen Dioxide NO ₂ , µg/m ³	80	15.4	20.1	17.6
4	Sulphur dioxide as SO ₂ , µg/m ³	80	9.3	11.6	10.8

The above table reveals that all the monitored values are within the standards prescribed under National AAQM Standards notified on 18.09.2002.

4.2. Ambient Noise Level Monitoring:

The monitoring results reveal the following ambient noise concentration at different locations:

Sl. No.	Locations	Noise level in dB(A) Leq		CPCB Standard	
		Day	Night	Lday (Ld)	LNight (Ln)
1	Near Hosadoddi Village	53.7	44.5	55	45
2	Near Billakempanahalli Village	54	43.7	55	45
3	Near Bandebayalu Village	51.5	41.3	55	45
4	Near Toyota Tsusho Park- Project site	61.1	51.8	75	70
5	Near Byramangala Village	52.2	41.6	75	70
6	Near Gollarapalya Village	52.7	43	55	45
7	Near Abhanakuppe Village	54.8	43.9	55	45
8	Near Budivaderapalya Village	53.2	41.5	55	45

Note: Noise Level Stipulated by KSPCB for Residential area is 55 dB (A) (During day time) and 45 dB (A) (During night time), For Commercial area 65 dB (A) (During day time) and 55 dB (A) (During night time), For Industrial area 75 dB (A) (During day time) and 70 dB (A) (During night time).

The above table reveals that all the monitored values are within the standards prescribed under Noise Rules, 2000.

Ambient Noise Level is monitored and the detailed reports are attached as **Annexure-5**.

4.3. Water Quality Monitoring:

Water quality in the industrial area is monitored. The Ground and Surface water samples are collected and analyzed for water quality parameters. The Compiled test reports are attached as **Annexure-6**.

The water quality monitoring was carried out at 8 bore wells (different villages) spread across the study area and the following table gives the details of Maximum, Minimum and Average concentrations of different water quality parameters and the analysis reports reveals that all the parameters are well within the standards prescribed under IS10500.

Sl. No.	Parameters	Minimum Value	Maximum Value	Average Value
1	Color (hazen units)	<2.0	<2.0	<2.0
2	Odour	Agreeable	Agreeable	Agreeable
3	pH Value	7.0	8.21	7.8
4	Turbidity, NTU	0.2	7.1	1.7
5	Chloride as Cl, mg/L	69.1	221.2	151.9
6	Total hardness as CaCO ₃ , mg/L	139.8	555.3	369.4
7	Calcium as Ca, mg/L	37.3	147.7	90.6
8	Magnesium as Mg, mg/L	11.5	53.9	35.5
9	Total dissolved Solids, mg/L	298.0	832.0	613.3
10	Sulphate as SO ₄ , mg/L	12.8	104	57.0
11	Nitrate as NO ₃ , mg/L	1.1	15.4	7.3
12	Fluoride as F, mg/L	0.3	0.9	0.5
13	Iron as Fe, mg/L	0.24	0.74	0.5
14	Lead as Pb, mg/L	BDL	BDL	BDL
15	Copper as Cu, mg/L	BDL	BDL	BDL
16	Zinc as Zn, mg/L	<0.05	<0.05	<0.05
17	Chromium as Cr, mg/L	BDL	BDL	BDL
18	Dissolved oxygen, mg/L	2.8	4.1	3.36

4.4. Soil Quality Monitoring:

Soil quality in the industrial area is monitored. The soil samples are collected and analysed for different parameters. The compiled test reports are attached as **Annexure-7**.

The soil quality monitoring was carried out at 8 locations (different villages) spread across the study area and the following table gives the details of Maximum, Minimum and Average concentrations of different soil quality parameters and the analysis reports reveals that all the parameters are well within the standards prescribed.

Sl. No.	Soil Parameters	Minimum Value	Maximum Value	Average Value
1	pH (20% Suspension)	6.9	8.5	7.4
2	Conductivity, $\mu\text{mhos/cm}$	174	364	219.1
3	Chloride as Cl, mg/Kg	183.5	359.7	260.5
4	Moisture, %	2.5	10.9	5.2
5	Organic Matter, %	1.9	5.04	3.4
6	Calcium as Ca, mg/Kg	306.5	1016.8	628.7
7	Magnesium Mg, mg/Kg	60	192	125.8
8	Colour	Brown	Brown	Brown
9	Sulphur as S, mg/Kg	1.8	38.4	20.2
10	Nitrogen as N, %	0.003	0.03	0.009
11	Phosphorous as P, mg/Kg	2.08	67.7	16.0
12	Potassium as K, mg/Kg	17.8	1061.9	239.2
13	Copper as Cu, mg/Kg	6.63	18.5	11.8
14	Chromium as Cr, mg/Kg	10.43	38.72	25.9
15	Zinc as Zn, mg/Kg	5.26	24.9	19.3
16	Lead as Pb, mg/Kg	1.83	11.5	6.4
17	Nickel as Ni, mg/Kg	4.8	32.62	14.5
18	Cadmium as Cd, mg/Kg	<0.1	<0.1	<0.1

No. SEIAA: 23 : IND: 2012
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT
AUTHORITY, KARNATAKA STATE
(Constituted by Ministry of Environment & Forests, Government of India)

Department of Ecology and Environment
Room No.709, 7th Floor, IV-Gate,
M.S. Building, Bangalore-560 001,
Date: 23rd September 2013.

To,

The CEO & Executive Member,
Karnataka Industrial Area Development Board (KIADB)
No. 14/3, 2nd Floor,
Rashthrohana Parishat Building (RP),
Nrupathunga Road, Bangalore - 560 001.

Phone No: (080) 22211066, 22215383, 22215069.
Fax No: (080) 22217702.
Email: kiadb@mail.kar.nic.in

Sir,

Sub: Development of Bidadi Industrial Area (Phase-II) at Survey Numbers of Shanamangala, Bhimanahalli, Appanakuppe, Talakuppe, Billakempanahalli and Banandur Villages of Bidadi Hobli, Ramanagara Taluk & District by Karnataka Industrial Area Development Board (KIADB) - Issue of Environmental Clearance- reg.

This has reference to your applications No. KIADB/Do & EE-1/619/2012-13 dated: 27.09.2013 addressed to SEIAA, Karnataka and subsequent letters addressed to SEIAA/SEAC, Karnataka seeking prior environmental clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of the provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Application in Form 1, prefeasibility report and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC), Karnataka.

It is, inter-alia, noted that M/s. Karnataka Industrial Area Development Board (KIADB), have proposed for development of industrial area in 2 sectors on a plot area of 636.44 Acres (Sector 1: 183.13 Acres & Sector 2: 453.31 Acres) (Details of the land as in Annexure). Out of 183.13 acres of sector 1, 149.34 acres area is for production blocks of industrial, 3.53 acres area is for civic amenities, 2.00 acres area is for utility, 15.52 acres area is for park & buffer and 12.74 acres area is for roads. Out of 453.31 acres of sector 2, 288.75 acres area is for production blocks of industrial, 48.90 acres area is for KSHDC, 15.40 acres area is for civic amenities & parking, 52.46 acres is for park & buffer, 3.00 acres area

is for utility, 10.80 acres area is for ashraya colony and 34 acres area is for roads. Total water requirement for the industrial area is 3620 KLD (Domestic: 285 KLD + Industrial: 1265 KLD+ Gardening: 2100 KLD) will be met from BWS&SB/tertiary treated water. Total waste water generated is 1150 KLD (Domestic effluent: 260 KLD + Industrial effluent: 890 KLD). Domestic waste water will be treated in CSTP and industrial effluent will be treated in CEIP. Total power requirement is 2700 KW will be sourced from KPTCL. Alternative power requirement is 1500 KW DG set. The total project cost is Rs. 448 Crores.

The State Level Expert Appraisal Committee (SEAC) examined the proposal in the meeting held on 23rd & 24th November 2012, 14th & 15th February 2013 & 5th April 2013 and has recommended for issue of Environmental Clearance.

The State Environmental Impact Assessment Authority (SEIAA) Karnataka has considered the project in its meeting held on 17th May 2013 and after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations and the appraisal and recommendation of the SEAC, have accorded environmental clearance as per the provisions of Environmental Impact Assessment Notification-2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:-

A- SPECIFIC CONDITIONS

I. Construction Phase:

1. "Consent for Establishment" shall be obtained from Karnataka State Pollution Control Board under Air and Water Act and a copy shall be submitted to the SEIAA, Karnataka before start of any construction work at the site.
2. Set up an environment management cell with appropriate lab facility shall be created as the project starts. It shall monitor all necessary parameters and activities during construction and operational phases from day one. The cell also ensures that the cell manages / maintains all the environmental aspects such as sewage treatment, solid waste disposal, maintenance of green belt areas, etc.
3. All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase. Sufficient number of toilets/bathrooms shall be provided with required mobile toilets, mobile STP for construction work force.
4. A First Aid Room should be provided in the Project both during construction and operation of the project.
5. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
6. Provision shall be made for the housing of construction labourers within the site with all necessary infrastructures. The housing may be in the

- form of temporary structures to be removed after the completion of the project. The facilities shall include the crèche.
7. Provision should be made for the supply of fuel (kerosene or cooking gas); utensils such as pressure cookers etc. to the labourers during construction phase.
 8. All the labourers to be engaged for construction should be screened for health and adequately treated before engaging them to work at the site and detailed report submitted to SEIAA. Safety standards as per National Building Code (NBC) should be ensured.
 9. For dis-infection of wastewater which is not meant for recycling for toilet flushing, use ultra violet radiation and not chlorination. For treated wastewater meant for reuse for toilet flushing, disinfect by using chlorination.
 10. All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
 11. Disposal of muck, construction debris during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
 12. Soil and ground water samples should be tested at the project site during the construction phase to ascertain that there is no threat to ground water quality by leaching of heavy metals and or other toxic contaminants and report submitted to SEIAA.
 13. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.
 14. The diesel generator sets to be used during construction phase should be of low sulphur diesel type and should conform to E (P) Rules prescribed for air and noise emission standards.
 15. The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.
 16. Vehicles hired for bringing construction material to the site should be in good condition and should conform to the applicable air and noise emission standards and should be operated only during non-peak hours.
 17. Ambient noise levels should conform to the residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.
 18. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on August 2003.
 19. Ready mixed concrete must be used in building construction.
 20. Storm water control and its re-use as per CGWB and BIS standards for various applications.

21. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices and only tertiary treated water shall be used for construction as per G.O. No. FEE 188 ENV 2003 dated 14.08.2003.
22. No ground water is to be drawn without permission from the Central/State Ground Water Authority.
23. Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
24. Treatment of 100% grey water by decentralized treatment should be done.
25. The provision of Energy Conservation Building code, 2006 shall be fully complied with.
26. Roof should meet prescriptive requirement as per Energy Conservation Building Code, 2007 by using appropriate thermal insulation material.
27. Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, 2007 which is proposed to be mandatory for all air conditioned spaces while it is optional for non-air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.
28. The Proponent shall obtain the construction material such as stones and jelly etc. only from the approved quarries and other construction material shall also be procured from the authorized agencies/traders.
29. The proponent shall obtain approval from the competent authorities for structural safety of the building due to earthquake, adequacy of fire fighting equipment etc. as per the National Building Code (NBC) including protection measures for lightening etc.
30. The project authority shall ensure that no water bodies are polluted due to project activities and nala/water bodies within the project areas are well protected with sufficient buffer.
31. Safety standards as per National Building Code (NBC), 2005 should be followed and ensured.
32. The project Authorities shall ensure that the National Building Code, 2005 is complied with and adhered to.
33. The project authorities shall not use Kharab land if any, for any purpose and keep available to the general public duly displaying a board as public property. No structure of any kind be put up in the Kharab land and shall be afforested and maintained as green belt only.
34. The authorities should include the condition while issuing plots to the prospective individual industries that they should develop greenbelt of 33 % of the plot area allotted for them.
35. The industrial units in the industrial area and the associated facilities shall be strictly in accordance with the norms laid down by the Karnataka State Government and KSPCB/CPCB.
36. The project authorities shall strictly adhere to the commitments made in the letter No. IADB/JDIP/EC /90/3479/2013-14 dated 04.06.2013 with regard to establishment of SIP/CEIP, buffer zone, green belt, conditions to be incorporated in the lease document while allotting plots to individual industries, environment safety aspects etc.

37. The project authorities shall undertake the activities towards the corporate social commitment plan made vide letter dated 11.03.2013 with a total budget not less than Rs. 13 Lakhs and shall be executed within a period of 2013-2017 as committed and report be submitted to the Authority.

II. Operation Phase.

1. The Company shall implement all the recommendations made in the Environmental Impact Assessment /EMP report and risk assessment report.
2. The installation of the Sewage Treatment Plant (STP) shall be got certified by an independent expert and a report in this regard should be submitted to the SEIAA before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of treated sewage shall conform to the norms & standards of the Karnataka State Pollution Control Board. Treated sewage should be used for flushing, gardening, etc. as proposed. Necessary measures should be made to mitigate the odour problem from STP.
3. The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
4. Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Andhra Pradesh Pollution Control Board.
5. Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
6. The project proponent shall ensure that the greenery of the area is maintained. Further, 33% of the project area shall be dedicated for green belt development. The local Forest Department shall be associated for this purpose and requisite budget earmarked.
7. Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
8. Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table.
9. The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.

10. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
11. A Report on the energy conservation measures conforming to energy conservation norms finalise by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the SEIAA, Karnataka in three months time.
12. Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.
13. Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
14. The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
15. The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000. all transportation of Hazardous Chemicals shall be as per the MVA, 1989. Authorization from the KSPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
16. The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the KSPCB must be obtained for collection/treatment/ storage/disposal of hazardous wastes.
17. Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for lighting and heating should be provided. Details in this regard should be submitted to the SEIAA.
18. The individual industries & residential developments shall take all necessary clearances including Environment clearance in accordance with the law. The project Authority shall incorporate such condition in the lease/ sale deed/ Agreement.
19. The project authorities shall bifurcate the industrial plots and residential plots with a thick and tall vegetative barrier green belt.
20. The project Authority shall incorporate a condition in the prospective lease/sale deed/Agreement with individual industries that they also shall abide by the conditions of this environmental clearance.

B. GENERAL CONDITIONS:

1. The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board (KSPCB).

2. No further expansion or modifications of the industrial area shall be carried out without prior approval of the SEIAA/Ministry of Environment and Forests as the case may be.
3. The project proponent shall also comply with all the environmental protection measures and safeguards as per the information provided.
4. The implementation of the project vis-à-vis environmental action plans shall be monitored by MoEF, Regional Office at Bangalore / KSPCB/ CPCB and the Department of Environment & Ecology, Bangalore. A six monthly compliance status report shall be submitted to monitoring agencies.
5. The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA and copies of the clearance letter are available with the KSPCB and may also be seen at Website of the Authority at <http://www.seiaa.kar.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the MoEF Regional Office at Bangalore / KSPCB/ CPCB and the Department of Environment & Ecology, Bangalore.
6. The project authorities shall inform the MoEF Regional Office at Bangalore / KSPCB/ CPCB and the Department of Ecology and Environment, Bangalore, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
7. The SEIAA, Karnataka may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
8. The SEIAA, Karnataka reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
9. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
10. The issue of Environment Clearance doesn't confer any right to the project proponent to operate / run the project without obtaining statutory clearances / sanctions from all other concerned Authorities.
11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental (Protection) Act, 1986.
12. Any appeal against this environmental 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.
13. Officials from the Department of Environment and Ecology, Bangalore/ Regional Office of MoEF, Bangalore who would be monitoring the implementation of Environmental safeguards should be given full

cooperation, facilities and documents/ data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF / SEIAA should be forwarded to the CCF, Regional Office of MoEF, Bangalore/ Department of Ecology and Environment, Bangalore/ Regional Officer, KSPCB Bangalore.

14. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
15. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
16. 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 competent authorities.
17. 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.
18. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it is found that construction of the project has been started without obtaining environmental clearance.

Yours Faithfully,


(RAMACHANDRA) 24/9
Member Secretary,
SEIAA.

Copy to:

- 1) The Secretary, Ministry of Environment & Forests, Government of India, Paryavaran Bhavan, CGO Complex, Lodi Road, New Delhi-110003.
- 2) The Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 3) The CCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block, Bangalore-560 034.
- 4) Guard File.

Annexure to Environmental Clearance letter No. SEIAA 23 IND 2012 dated 23.09.2013

Details of Land of the proposed Bidadi Industrial Area

Villages Name	Sy.No	Acers-Guntas
Shanmanagala	99/1	0-29
	99/2	0-36
	99/3	0-03
	99/4	0-03
	128/1	0-28
		2-19
Bhimanahalli	3	0-08
	36	0-19
	37/1	0-04
	37/2	0-15
	39/1	0-06
	39/2	0-08
	40/1	0-02 ½
	40/2	0-10
	40/5	0-0 ½
	40/6	0-02
	40/7	0-02
	40/8	0-01
	41/1	0-09
	42/1	0-02
	44	0-03
	46/1	0-03
	46/2	0-02
	52/1	0-05
	53/1	0-01
	53/5	0-12
Total		2-35
Shanmangala	23/5	0-14
	23/7	0-14
	23/8	0-14
	24/1	0-18
	24/2	0-11
	24/3	0-11
	32	6-25
	33	4-36
	34	5-21
	35	4-12
	36	5-20
	37	2-36
	38/1	1-33

	38/2	0-37
	38/3	0-37
	39/1	2-24
	39/2	2-24
	40/1	0-13
	40/2	0-12
	40/3	0-12
	40/4	0-20
	40/5	0-27
	40/6	0-20
	40/7	2-23
	41/1	0-36
	41/2	0-38
	41/3	0-29
	41/4	0-22
	41/5	3-10
	42/1	0-02
	42/2	0-01
	42/3	0-01
	43/1	0-02
	43/2	0-03
	43/3	0-03
	44	0-02
	45	0-13
	46	0-19
	47	2-01
	48/1	0-20
	48/2	3-04
	48/3	0-36
	48/4	1-01
	48/5	1-06
	53/3	17-00
	53/4	11-04
	54/6	8-19
	54/7a 1a	4-00
	54/7a 1b	7-25
	54/7a 2	6-03
	54/7b	13-00
	54/8	2-06
	56	0-17
	58	2-19
	59	1-20
	60	1-17
	61	1-31
	62	1-13

	63/1	1-27
	63/2	0-24
	64/1	1-04
	64/2	0-30
	65	1-08
	66	0-05
	67	0-18
	68	6-11
	69	4-09
	121/1	0-19
	121/2	1-32
	121/3	1-07
	122/1	1-18
	122/2	1-11
	123	3-29
	124/1	0-34
	124/2	0-29
	124/3	2-37
	178	5-06
	Govt	5-07
Total		198-27
Shanmangala	94/1	2-13
	95	7-22
	99/5	0-33
	99/6	0-28
	99/8	0-38
	100/1	1-23
	100/2	0-14
	100/3	0-10
	100/4	0-18
	100/5	0-05
	100/6	0-22
	100/7	0-06
	101/2	1-10
	101/3	1-28
	101/4	0-13
	101/5	0-23
	102/1	2-08
	102/2	1-35
	103	5-01
	104	4-13
	105/1	3-04
	105/2	3-15
	106	6-20

	107/1	1-15
	107/2	4-18
	108	7-16
	109	2-05
	110	3-27
	111/1	3-02
	111/2	2-30
	111/3	2-20
	112	7-34
	113/1	1-08
	113/2	1-10
	115/1	2-20
	116	4-02
	117	4-24
	118	1-07
	119	1-09
	125/1	1-03
	125/2	0-15
	125/3	0-13
	125/4	0-22
	125/5	0-25
	125/6	0-09
	125/7	0-08
	125/8	0-09
	125/9	1-18
	125/10	1-18
	127/3	0-05
	127/4	0-21
	127/5	0-31
	128/2	0-24
	128/3	0-21
	128/4	0-28
	128/5	1-02
	128/6	0-10
	129	1-22
	130/1	1-36
	130/3	0-03
	131/1	1-32
	131/2	1-28
	141	7-34
	142/1	1-09
	142/2	0-14
	142/3	0-27
	142/4	0-12
	142/5	0-09

	142/6	1-07
	142/7	0-26
	142/8	0-16
	142/9	0-07
	143	3-32
	144/1	1-05
	144/2/3	1-28
	145	4-09
	147/1	0-35
	147/2	0-34
	148	1-13
	148/8	0-16
	152	3-10
	153/1	0-15
	153/2	0-10
	153/3	1-08
	153/4	0-38
	153/5	0-39
	155/1	2-37
	155/2	3-05
	156	0-12
	213	4-28
	214	0-06
	83	3-00
	185	4-14
	218	4-38
	230/5	1-34
	72	2-34
	79	42-34
	83	20-20
	146	0-19
	236	0-24
	Govt Halla	1-26
	Total	243-36
shanmangala		
	101/1	1-33
	114	3-04
	115/2	2-36
	130/2	0-27
	144/3	0-36
Total		9-16

Appanakuppe		
	32/1	2-23
	32/2	1-01
	32/3	0-25
	33/1	3-22 ½
	33/2	0-26 ½
	36	5-04 ½
	37	4-09
	38	4-09
	63	4-16
Total		26-16
Talakoppe		
	34	0-33 ½
	35/2	1-14
	35/3	1-04
	35/4	0-04 ¼
	36	1-33
	118/1	1-01
Total		6-09
Banandur		
	225	2-02
	244/12	7-35
	244/13 b	3-11
Total		13-08
Shanmangala		
	231	2-12
	232	2-08
	235	3-19
	210/2	0-20
	214	1-19
	216	1-00
	217	4-03
Total		15-01
Shanmangala		
	154	0-25
	157	1-16
	158	0-26
Total		2-27
Talakuppe		
	52	0-39
	55	1-38

ಫ್ಯಾಕ್ಸ್ / Fax : 080-25586321
ಈಮೇಲ್ / E-mail : ho@kspcb.gov.in
ವೆಬ್‌ಸೈಟ್ / Website : http://kspcb.gov.in



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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

"ಪರಿಸರಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ.49, ಚರ್ಚ್‌ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ

"Parisara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA
HD Reg No. 129333 dated 25.05.2017
Sakala No. PB0CM0000007857

KIADB - Bidadi

NO. PCB/113/CNP/17/

100-876

/ BY REGD. POST WITH ACK. DUE /

DATE:

21 DEC 2017

(THIS ORDER CONTAINS 07 PAGES INCLUDING 14 PAGES OF ANNEXURE-I)

To
The Development Officer – I &
Executive Engineer,
Karnataka Industrial Area Development Board (KIADB),
KIADB Zonal Office, Arvind Bhavan,
2nd Floor, NT Road,
Bengaluru – 560 001.

Sir,

Sub: Consent for establishment to development of Industrial Area with total area of 636.44 Acres (Sector I – 183.13 Acres & Sector II – 453.31 Acres) located at Bidadi Industrial Area, Phase – II, Sector I & II, Bidadi Ramanagar Taluk and District by **M/s. Karnataka Industrial Area Development Board.**

- Ref:
1. Application for consent for establishment received at Regional Office, KSPCB, **Ramanagar** on 25.05.2017.
 2. Inspection of the proposed project site by Officer of the Regional Office, KSPCB, **Ramanagar** on 21.11.2016 & 25.05.2017.
 3. E.C. issued vide No. SEIAA:23:IND:2012 dated 23.09.2013.
 4. The proceedings of Technical Presentation held on 19.06.2017.
 5. Project Proponent vide No. 660 dated 13.07.2017.
 6. Proceedings of the consent committee meeting held on 30.11.2017.



With reference to the above, it is to be informed that this Board hereby accords Consent for Establishment under the Water (Prevention & Control of Pollution) Act 1974 to development of **Industrial Area with total area of 636.44 Acres (Sector I – 183.13 Acres & Sector II – 453.31 Acres)** located at Bidadi Industrial Area, Phase – II, Sector I & II, Bidadi Ramanagar Taluk and District, subject to the following conditions.

I. **Environmental Aspects and Management during the course of construction:**

- a) The applicant should cover the project site from all sides by raising sufficiently tall barricades with sheets to ensure that pollutants should not spill to the surroundings.

(Sadiq Ahmed)

SENIOR ENVIRONMENTAL OFFICER

- b) The applicant shall arrange services like housing facility, water supply, sewage facilities on a temporary basis at construction site and same shall be maintained without any adverse impact on the environment.
 - c) The applicant shall control the movement of vehicles carrying construction materials in order to avoid noise pollution in the surrounding.
 - d) **The project proponent shall strictly adhere to the conditions stipulated in the Environmental clearance issued from the MoEF & CC, Government of India, vide No. F.No. 21-67/2012-IA.III dated 21.07.2015.**
 - e) **The applicant shall strictly adhere to the zoning Regulation with respect to buffer zone towards any Lake, Nala, drain or any other water bodies as per the local planning authority guidelines or as per any plan sanctioning authority.**
 - f) **The applicant shall submit final approved plan from competent authority to the Board before taking up any construction activities.**
 - g) **The applicant shall seek extension through a letter 45 days in advance of the expiry of validity period of CFE/CFExpn order with proper reasons for seeking such extension if required.**
 - h) **The applicant to maintain 5 rows of plantation along the boundaries of the industrial area and to see that only green category industries are allotted towards the adjoining village limits.**
 - i) **The applicant shall not discharge any kind of effluent into the tanks or to any water bodies.**
1. This consent for establishment shall be **valid for a period of Five years** from the date of issue of this Order.
 2. **The applicant shall maintain natural nallah and other such feature as in the Revenue Survey map.**
 3. The applicant shall not take expansion/diversification without the prior consent of the Board.
 4. The applicant shall obtain necessary licence/clearance from their relevant agencies before taking up construction.
 5. KIADB authorities shall earmark a dedicated area for common facilities like CETP and CSTP, common solid waste treatment and Hazardous waste management.
 6. The applicant shall maintain utilities including STP for a minimum period of five years.
 7. The applicant shall use treated sewage for secondary purposes including construction.
 8. This CFE is issued only from the point of water pollution control only and does not have any relevance over land dispute, any pending cases with any Departments/Hon'ble Courts.


 (Sadig Ahmed)
 SENIOR ENVIRONMENTAL OFFICER

9. Common Sewage Treatment Plant (CSTP) and Solid waste processing facility (for organic) shall be provided and operated satisfactorily by the project proponent himself before it is handed over to Association/Company.

II. WATER CONSUMPTION:

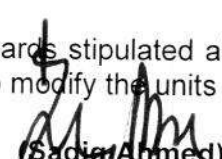
1. The water consumption shall not exceed **1265 KLD** for Industrial purpose & shall not exceed 225 KLD for domestic purpose.
2. No ground water is to be drawn without permission from the Central/State Ground Water Authority.

III. WATER POLLUTION CONTROL:

1. The quantity of waste water generation shall not exceed **890 KLD** for industrial use & shall not exceed 180 KLD from domestic use.
2. The applicant shall install common sewage treatment (CSTP) of capacity **180 KLD** and Common Effluent treatment plant (CETP) of capacity **1 MLD** for treatment of waste water generation from the proposed industrial layout.
3. The applicant shall submit the complete design details of the CETP along with treatment schemes and obtain prior approval from the Board before installation of the same to meet the standards stipulated by the Board regarding process effluents before utilizing for urban reuse viz. landscape irrigation, vehicle washing, toilet flushing, use in fire protection and commercial air conditioners.
4. The applicant shall treat the sewage to meet the following standards stipulated below before utilization for secondary purposes.

Sl. No	Parameter	Parameters Limit.
01.	pH	6.5 – 9.0
02.	BOD (mg/l)	Not more than 10
03.	COD (mg/l)	Not more than 50
04.	TSS (mg/l)	Not more than 20
05.	NH4-N (mg/l)	Not more than 5
06.	N-Total (mg/l)	Not more than 10
07.	Fecal Coliform (MPN/100 ml).	Less than 100

5. Applicant shall add appropriate disinfectant to the treated sewage to ensure some residual chlorine preferably in the range of 1 mg/l. to 3 mg/l.
6. The applicant shall treat pretreated waste water from individual units in their 2.0 MLD CETP.
7. The secondary and tertiary treated waste water will be supplied to industries for cooling, flushing & gardening.
8. If the treatment plant do not achieve the effluent standards stipulated above or if it is found to be inadequate, then the applicant shall have to modify the units so as to meet the standards with prior consent of the Board.

(Sadiq Ahmed)

 SENIOR ENVIRONMENTAL OFFICER

9. All the treatment units shall be made impervious and there shall not be any discharge of sewage outside the premises.
10. The applicant shall provide separate energy meter to liquid waste treatment plant and STP and also shall provide flow meters. A log book of readings shall be maintained.
11. The applicant should make provisions for dual piping system to use the treated sewage water for toilet flushing, gardening and other purposes.
12. The applicant shall dispose excess treated sewage i.e. left after using for secondary purposes. The applicant shall maintain log book and vehicle details in this regard.

IV. AIR POLLUTION CONTROL:

1. The applicant during construction shall ensure that the Ambient Air Quality in its premises shall conform to the National Ambient Air Quality Standards specified in Environment (Protection) Rules.
2. The applicant shall provide acoustic measures to the DG Sets as per SI. No. 94 in Schedule-I of Environment (Protection) Rules.
3. The applicant shall provide dust suppression systems with water sprinkling system during construction period.

V. NOISE POLLUTION CONTROL:

1. The applicant shall ensure that the ambient noise levels and ambient air quality within its premises during construction and after construction shall not exceed the limits specified in the Environment (Protection) Rules, i.e. 75 dB(A) Leq during day time and 70 dB(A) Leq during night time during and after construction.

VI. SOLID WASTE & HAZARDOUS WASTE DISPOSAL:

1. The applicant shall collect, treat and dispose off all solid waste generated during construction i.e. Muck, and Garbage after construction if any in such manner so as not to cause environmental pollution.
2. The applicant shall apply and obtain authorization for management & handling of waste oil under Hazardous & other Waste (Management & Transboundary Movement) Rules, 2016.
3. The applicant shall earmark sufficient place for segregation and processing and convert the bio-degradable solid waste generated from unit into compost within their premises with scientific method.
4. The applicant shall strictly follow the Government Notification No. FEE 17 EPC 2012 Bangalore dated 11.03.2016 with regard to plastics ban.
5. The applicant shall strictly follow Construction & Demolition Waste Management Rules, 2016.

(Sadia Ahmed)

SENIOR ENVIRONMENTAL OFFICER

6. The applicant shall earmark minimum of 5 acres and maximum of 25 acres of land for the purpose of establishing CETP, Hazardous Waste and Municipal Solid waste collection centers in the industrial area.

VII. HEALTH & SAFETY:

1. The applicant shall provide all necessary healthcare facilities to workers and shall carry out routine health survey among workers.
2. The applicant shall provide all safety measures including personal protective equipments to workers during construction.

VIII. GENERAL :

1. The applicant shall adhere to the Zonal Regulations norms of competent authority.
2. **The industrial units in the industrial area and the associated facilities shall be strictly in accordance with the norms laid down by the Karnataka State Government and Board.**
3. The existing water body, canals and rajakaluve and other drainage and water bound structures if any shall be retained unaltered with due buffer zone as applicable and maintained under tree cover.
4. The natural sloping pattern of the project site other than the area excavated for the purpose of construction of proposed building shall remain unaltered and the natural hydrology of he area be maintained as it is to ensure natural flow of storm water.
5. Lakes and other water bodies within and/or at the vicinity of the project area shall be protected and conserved.
6. The project Authority shall allow only the Orange and Green category industries and strictly as proposed in the layout plan.
7. The solid waste generated should be properly collected and segregated Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling, after recovering recyclable material.
8. The project proponent shall ensure development of a minimum of 33% of the project area which shall include the butter zone and green belt developed by individual industries. The project authority may undertake compensatory green belt development through avenue plantation in the adjoin roads and in the civic amenity area if there is any shortfall within the project site in the unavoidable circumstances.
9. The provision of Energy Conservation Building code, 2006 shall be fully complied with.
10. The project authority shall ensure that no water bodies are polluted due to project activities and the nala/water bodies if any within the project areas are well protected with sufficient buffer.


 (Sadig Ahmed)
 SENIOR ENVIRONMENTAL OFFICER

11. The project authorities shall not use Kharab land if any for any purpose and keep available to the general public duly displaying a board as public property. No structure of any kind be put up in the Kharab land and shall be afforested and maintained as green belt only.
12. The authorities should include the condition while issuing plots to the prospective individual industries that they should develop greenbelt of 33% of the plot area allotted for them.
13. The project proponent shall ensure that the greenery of the area is maintained. Further 33% of the project area shall be dedicated for green belt development. The local Forest Department shall be associated for this purpose and requisite budget earmarked.
14. Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
15. The project authorities shall bifurcate the industrial plots and residential plots with a thick and tall vegetative barrier green belt.
16. The project authority shall incorporate a condition in the prospective lease/sale deed/Agreement with individual industries that they also shall abide by the conditions of this E.C.
17. The applicant must create structure/storage facility for rain water harvesting and ground water recharge.
18. The applicant should make provisions for dual piping system to use the treated sewage water for toilet flushing, gardening and other purposes.
19. The applicant shall arrange for alternate power supply in the form of D.G.Set to run and operate the essential units of sewage treatment plant, in event of brake down of regular supply from Electricity Board.
20. The applicant shall implement the Environmental Management Plan during construction and after construction as given under EMP report.
21. The applicant shall not change or alter (a) building plan (b) the quality, quantity or rate of discharge/ emissions and (c) install/replace/alter the water or air pollution control measures without the prior approval of the Board.
22. The applicant shall immediately report to the Board of any accident or unforeseen act or event resulting in release of discharge of effluents or emissions or solid wastes etc., in excess of the standards stipulated, and the applicant shall immediately take appropriate corrective and preventive actions under intimation.
23. Exact date of commissioning of the sewage treatment plant shall be informed to this Board 45 days in advance so as to make necessary inspection of the plant and the pollution control measures provided by the applicant.

(Sadiq Ahmed)

SENIOR ENVIRONMENTAL OFFICER

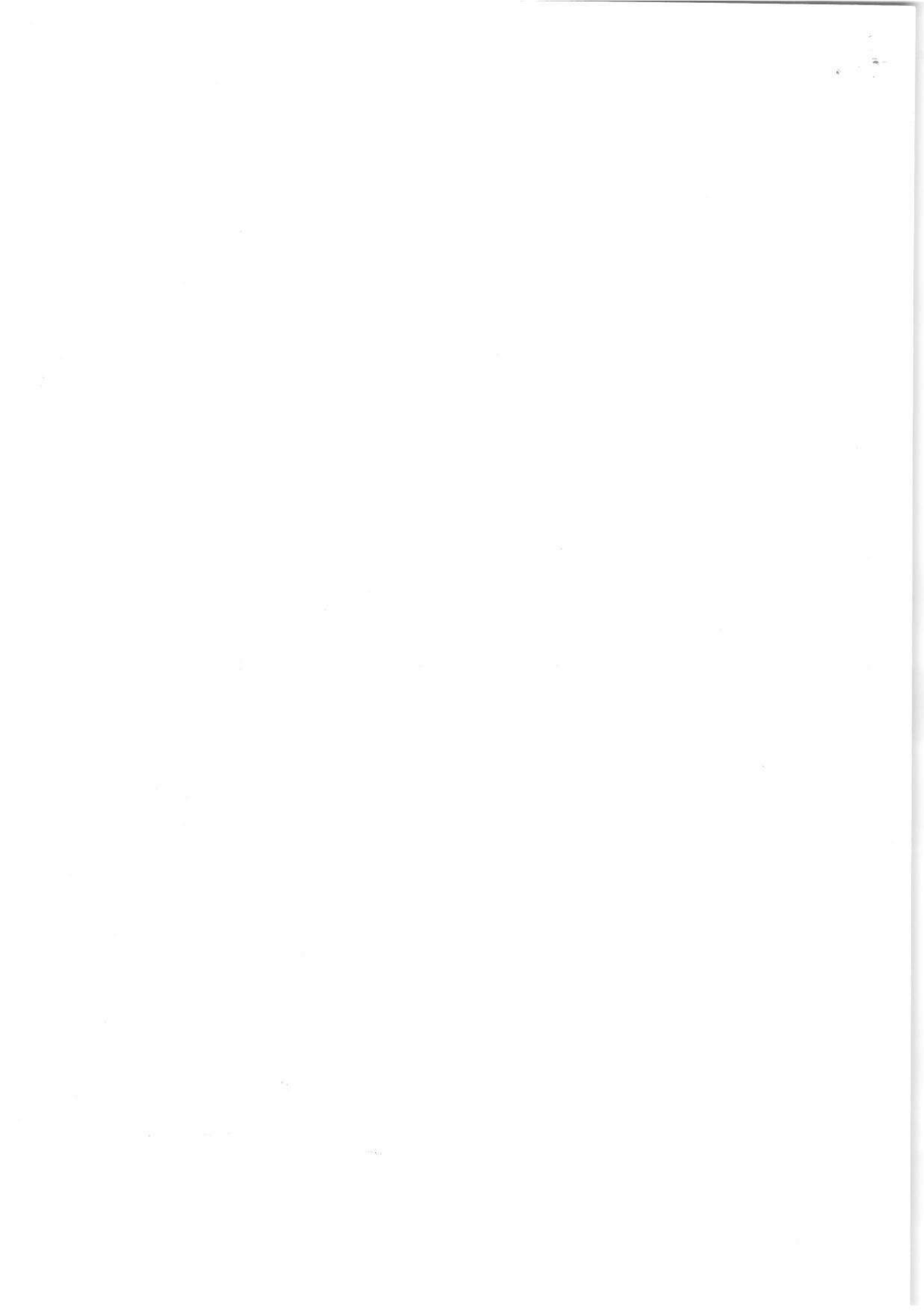
24. The applicant shall appoint a qualified Environmental Engineer/ Scientist for the Management of Environmental aspects and also establish Environmental Cell to oversee the operation of STP.
25. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
26. This CFE does not give any right to the Party/Project Authority to forego any legal requirement, which is necessary for setting/operation of the project.
27. The application shall adopt Eco-sanitation system in the project.
28. The applicant is liable to reinstate or restore, damaged or destroyed elements of environment at his cost, failing which, the applicant/occupier as the case may be shall be liable to pay the entire cost of remediation or restoration and pay in advance an amount equal to the cost estimated by Competent Agency or Committee.
29. The project authorities shall dispose scientifically Bio-Medical waste and electronic waste to authorized common disposal facility and authorized recyclers respectively by entering into agreement as per new Bio Medical Waste Management Rules, 2016 and E- Waste (Management) Rules, 2016.
30. The project authorities shall adopt green building concept.
31. The project authorities shall establish Environmental Cell during operation phase to comprehensively manage environment related issues.
32. Suitable local tree species shall be selected for greenery and minimum three rows of plant saplings shall be planted all-along the periphery of the site.
33. The CFE is issued without prejudice to the Court case pending in any Hon'ble Court.

Please note that separate consents of the Board for discharge of liquid effluent and the emissions to the air shall have to be obtained by remitting prescribed consent fee. The application for consent has to be made 45 days in advance to the completion of construction work of project. Issue of consent will be considered only after completion of Water pollution control measures, solid waste management facilities and installing air pollution control measures.

The receipt of this letter may please be acknowledged.

For and on behalf of
Karnataka State Pollution Control Board


SENIOR ENVIRONMENTAL OFFICER



Combined national Tote pools in offering

Sd/- Executive Engineer, Project (West) Division

"Pay development charges, help to develop Bengaluru"

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(5) ಆರ್ಥಿಕ ಬಡ ತೆರೆಯುವ

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RAVARI NIGAM LIMITED

(Karnataka Enterprise)

Executive Engineer,

Project Division, Ranebennur.

Madhapura Corrigendum-3/

dtd: 19-03-2018

CORRIGENDUM-3

Notification No. 3944/017-18

Corrigendum -1 Notification

2018 3) This office

4447 dtd: 03-03-2018

Notifications cited at Ref (1) to (3)

work of "Survey, Investigation,

Testing and Commissioning of

Works consisting of Intake

in pump house, Power supply

transmission lines, Rising Main,

and Construction of Gravity

structure for lifting of water from

ankaranahalli village to fill the

Taluk Havrei Districts. including

for a period of 5 years after

completion of scheme on Turn-

apura Lift Irrigation Scheme in

ct, Karnataka" was called and

instead of Guddada Madhapura

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1) will be published in the

ed in the news papers. Further

1) office of the undersigned

1) No. (08373) - 267071. and

NL. U.T.P. Division, Ranebennur.



KARNATAKA INDUSTRIAL AREAS DEVELOPMENT BOARD

(A Government of Karnataka Undertaking)

No. 49, East Wing, 4th & 5th Floor, Khanija Bhavan, Race Course
Road, Bengaluru - 560 001, Ph.: 22265383

Fax: 080-22267901 website: www.kiadb.in

e-Mail: cdoce@kiadb.in

PUBLIC ANNOUNCEMENT

(Through GoK e-Procurement Portal Only)

KIADB has obtained Environmental Clearance from MoEF&CC/SEIAA for the following Industrial Areas. The Copies of the Environmental Clearances are available on the website of MoEF&CC (<http://moef.nic.in>)/SEIAA (<http://seiaa.karnataka.gov.in>).

A. Environmental Clearance from MoEF&CC

1. Sompura Industrial Area, 1&2 Stage, Nelamangala Taluk, Bengaluru Rural District.

2. Vasanthanasapura Industrial Area, 2nd & 3rd Phase, Tumakuru District.

3. Gowribidanur, 1st & 2nd Stage Industrial Area, Chikkaballapura District.

4. Kadechuru Industrial Area, Kadechuru Village, Yadgiri Taluk & District.

5. Chamarajanagara Industrial Area, Badanakuppe and Kallambelli villages, Chamarajanagara Taluk & District.

6. Harohalli Industrial Area, 2nd & 3rd Phase, Ramangara District

7. Jakanasandra Industrial Area, Jakasandra village, Malur Taluk, Kolar District.

B. Environmental Clearance from SEIAA

1) Malur Industrial Area, 4th Phase, Malur Taluk, Kolar District.

2) Narasapura Industrial Area, 1st Stage, Kolar District.

3) IT/BT Park, Gamanagatti, Tarihal Village, Dharwad District.

4) Bidadi Industrial Area, 2nd Phase, Ramanagara District.

5) Vemagal Industrial Area, Kolar District.

6) Vasanthanasapura Industrial Area, 1st Stage, Tumakuru Taluk & District.

7) Hi-Tech Defence & Aerospace Components, Devanahalli Taluk, Bengaluru Rural District.

8) Doddaballapura Industrial Area, 3rd Phase, Obdenahalli, Doddaballapura Taluk, Bangalore Rural District.

9) Kittur Industrial Area, Bailahongal Taluk, Belagavi District.

10) Nandur Kesaratagi Industrial Area, 2nd Phase, Kalaburagi Taluk & District.

Sd/- Chief Development Officer & Chief Engineer

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MINOR II

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No. 94, 2nd Floor, Thirumala Complex, Nagarabhavi Main Road, NGEF Layout,
Nagarabhavi, Bengaluru - 560 072. Tel : 080 2318 6230

Email : info@robustmaterials.com Website : www.robustmaterials.com

TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No. : RE/2021/00227
	Report date : 03/03/2021
	Ref. : Test Request Form
	Date of Sampling : 24/02/2021 to 25/02/2021
	Job Order No : RE/2021/00227
	Date of Receipt : 25/02/2021
	Analysis Start date : 26/02/2021
Analysis Completed date : 03/03/2021	
Sample Particulars: Ambient Air Monitoring for 24 hrs.	
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).	
Sample Location: Near Hosadoddi Village.	

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	60.3	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	23.5	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	17.9	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	11.3	80	IS-5182 (P-02)

INFERENCE: The measured values for the above tested parameters are within as per the NAAQ Standards

Details of Equipment used for monitoring:		
Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	Envirotech AAS-217 NL	Envirotech AAS 127-mini
Sl. No.	18-J-739	18-J-889
Calibrated on date	17-03-2020	21-01-2021
Calibration due date	16-03-2021	20-01-2022

-----END OF THE REPORT-----


3/3/21
Verified by


5-03/03/21
Authorized Signatory

Note: 1. The results listed refer only to the tested samples and applicable parameters. 2. Test certificate should not be reproduced except in full, without written approval of the laboratory. 3. The submitted samples are drawn by the laboratory unless otherwise specified. 4. Endorsement of product is neither inferred nor implied. 5. Samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified. 6. This report cannot be used as evidence in the court of law & should not be used in any advertising media without our permission in writing. 7. Total liability of our lab is limited to the invoice amount and any disputes arising out of this report are subject to Bangalore jurisdiction only. 8. Laboratory is not responsible for the authenticity of photocopied test reports.



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Email : info@robustmaterials.com Website : www.robustmaterials.com

TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00228
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 24/02/2021 to 25/02/2021
	Job Order No	: RE/2021/00228
	Date of Receipt	: 25/02/2021
	Analysis Start date	: 26/02/2021
Analysis Completed date	: 03/03/2021	
Sample Particulars: Ambient Air Monitoring for 24 hrs.		
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Location: Near Billakempanahalli Village.		

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	59.6	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	20.3	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	16.1	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	10.9	80	IS-5182 (P-02)

INFERENCE: The measured values for the above tested parameters are within as per the NAAQ Standards

Details of Equipment used for monitoring		
Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	Envirotech APM-460 BL	Envirotech APM-550
Sl. No.	2475-DTJ-2012	1406-DTJ-2013
Calibrated on date	12-11-2020	07-11-2020
Calibration due date	11-11-2021	06-11-2021

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00229
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 24/02/2021 to 25/02/2021
	Job Order No	: RE/2021/00229
	Date of Receipt	: 25/02/2021
Sample Particulars: Ambient Air Monitoring for 24 hrs.	Analysis Start date	: 26/02/2021
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).	Analysis Completed date	: 03/03/2021
Sample Location: Near Bandebayalu Village.		

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	60.3	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	18.6	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	15.4	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	9.3	80	IS-5182 (P-02)

INFERENCE: The measured values for the above tested parameters are within as per the NAAQ Standards

Details of Equipment used for monitoring		
Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	Envirotech APM-550	Envirotech APM-550
Sl. No.	2476-DTJ-2012	1159-DTG-2012
Calibrated on date	17-03-2020	17-03-2020
Calibration due date	16-03-2021	16-03-2021

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB).

No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
Race Course Road, Bengaluru,
Karnataka 560 001.

Report No.	: RE/2021/00230
Report date	: 03/03/2021
Ref.	: Test Request Form
Date of Sampling	: 24/02/2021 to 25/02/2021
Job Order No	: RE/2021/00230
Date of Receipt	: 25/02/2021
Analysis Start date	: 26/02/2021
Analysis Completed date	: 03/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Location: Near Toyota Tsusho Park – Project Site.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	65.8	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	23.8	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	20.1	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	11.6	80	IS-5182 (P-02)

INFERENCE: The measured values for the above tested parameters are within as per the NAAQ Standards

Details of Equipment used for monitoring

Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	Ecotech AAS 217 NL	Ecotech AAS 217
Sl. No.	20-I-932	20-I-1165
Calibrated on date	16-12-2020	16-12-2020
Calibration due date	15-12-2021	15-12-2021

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB).

No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
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Report No.	: RE/2021/00231
Report date	: 03/03/2021
Ref.	: Test Request Form
Date of Sampling	: 24/02/2021 to 25/02/2021
Job Order No	: RE/2021/00231
Date of Receipt	: 25/02/2021
Analysis Start date	: 25/02/2021
Analysis Completed date	: 03/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Location: Near Byramangala Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	59.4	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	17.0	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	18.3	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	9.8	80	IS-5182 (P-02)

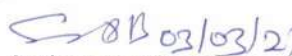
INFERENCE: The measured values for the above tested parameters are within as per the NAAQ Standards.

Details of Equipment used for monitoring

Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	Ecotech AAS-217 NL	Ecotech AAS 217
Sl. No.	20-I-933	20-I-1166
Calibrated on date	16-12-2020	16-12-2020
Calibration due date	15-12-2021	15-12-2021

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00237
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 25/02/2021 to 26/02/2021
	Job Order No	: RE/2021/00237
	Date of Receipt	: 26/02/2021
	Analysis Start date	: 26/02/2021
Sample Particulars: Ambient Air Monitoring for 24 hrs.	Analysis Completed date	: 03/03/2021
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Location: Near Gollarapalya Village.		

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	60.4	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	23.2	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	16.7	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	11.5	80	IS-5182 (P-02)

INFERENCE: The measured values for the above tested parameters are within as per the NAAQ Standards.

Details of Equipment used for monitoring		
Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	Envirotech AAS-217 NL	Envirotech AAS 127-mini
Sl. No.	18-J-739	18-J-889
Calibrated on date	17-03-2020	21-01-2021
Calibration due date	16-03-2021	20-01-2022

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB).

No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
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Report No.	: RE/2021/00238
Report date	: 03/03/2021
Ref.	: Test Request Form
Date of Sampling	: 25/02/2021 to 26/02/2021
Job Order No	: RE/2021/00238
Date of Receipt	: 26/02/2021
Analysis Start date	: 26/02/2021
Analysis Completed date	: 03/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Location: Near Abhanakuppe Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	62.8	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	22.4	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	18.7	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	10.5	80	IS-5182 (P-02)

INFERENCE: The measured values for the above tested parameters are within as per the NAAQ Standards

Details of Equipment used for monitoring

Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	Envirotech APM-460 BL	Envirotech APM-550
Sl. No.	2475-DTJ-2012	1406-DTJ-2013
Calibrated on date	12-11-2020	07-11-2020
Calibration due date	11-11-2021	06-11-2021

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB).

No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
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Report No.	: RE/2021/00239
Report date	: 03/03/2021
Ref.	: Test Request Form
Date of Sampling	: 25/02/2021 to 26/02/2021
Job Order No	: RE/2021/00239
Date of Receipt	: 26/02/2021
Analysis Start date	: 26/02/2021
Analysis Completed date	: 03/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Location: Near Budivaderapalya Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	61.1	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	20.6	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	17.5	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	11.1	80	IS-5182 (P-02)

INFERENCE: The measured values for the above tested parameters are within as per the NAAQ Standards

Details of Equipment used for monitoring

Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	Envirotech APM-550	Envirotech APM-550
Sl. No.	2476-DTJ-2012	1159-DTG-2012
Calibrated on date	17-03-2020	17-03-2020
Calibration due date	16-03-2021	16-03-2021

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00232
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 24/02/2021 to 25/02/2021
	Job Order No	: RE/2021/00232
	Date of Receipt	: 25/02/2021
	Analysis Start date	: 03/03/2021
	Analysis Completed date	: 03/03/2021
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00232	Near Hosadoddi Village	6:01 AM to 10:00 PM	48.9	58.9	53.7
		10:01 PM to 6:00 AM	37.8	52.4	44.5

Note: Noise Level Stipulated by KSPCB for Residential area is 55 dB (A) (During day time) and 45 dB(A) (During night time), For Commercial area 65 dB (A) (During day time) and 55 dB(A) (During night time), For Industrial area 75 dB (A) (During day time) and 70 dB(A) (During night time)

- Day Time is reckoned between 6 A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M.
- Leq: It is energy mean of the noise level over a specified period.
- *-dB (A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.]
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear

INFERENCE	As per CPCB Standards, Report Status: - The measured values for the above locations are within the standards.
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-----END OF THE REPORT-----


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TEST REPORT


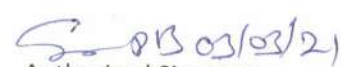


M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00233
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 24/02/2021 to 25/02/2021
	Job Order No	: RE/2021/00233
	Date of Receipt	: 25/02/2021
	Analysis Start date	: 03/03/2021
	Analysis Completed date	: 03/03/2021
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00233	Near Billakempanahalli Village	6:01 AM to 10:00 PM	49.8	58.6	54.0
		10:01 PM to 6:00 AM	37.1	51.4	43.7

Note: Noise Level Stipulated by KSPCB for Residential area is 55 dB (A) (During day time) and 45 dB(A) (During night time), For Commercial area 65 dB (A) (During day time) and 55 dB(A) (During night time), For Industrial area 75 dB (A) (During day time) and 70 dB(A) (During night time)

- Day Time is reckoned between 6 A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M.
- Leq: It is energy mean of the noise level over a specified period.
- *-dB (A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.!
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear

INFERENCE	As per CPCB Standards, Report Status: - The measured values for the above locations are within the standards.
-----END OF THE REPORT-----	
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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00234
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 24/02/2021 to 25/02/2021
	Job Order No	: RE/2021/00234
	Date of Receipt	: 25/02/2021
	Analysis Start date	: 03/03/2021
	Analysis Completed date	: 03/03/2021
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00234	Near Bandebayalu Village	6:01 AM to 10:00 PM	48.7	54.5	51.5
		10:01 PM to 6:00 AM	39.5	43.2	41.3

Note: Noise Level Stipulated by KSPCB for Residential area is 55 dB (A) (During day time) and 45 dB(A) (During night time), For Commercial area 65 dB (A) (During day time) and 55 dB(A) (During night time), For Industrial area 75 dB (A) (During day time) and 70 dB(A) (During night time)

- Day Time is reckoned between 6 A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M.
- Leq: It is energy mean of the noise level over a specified period.
- *-dB (A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.]
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear

INFERENCE	As per CPCB Standards, Report Status: - The measured values for the above locations are within the standards.
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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00235
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 24/02/2021 to 25/02/2021
	Job Order No	: RE/2021/00235
	Date of Receipt	: 25/02/2021
	Analysis Start date	: 03/03/2021
	Analysis Completed date	: 03/03/2021
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A). Sample Particulars: Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00235	Near Toyota Tsusho Park- Project site	6:01 AM to 10:00 PM	50.3	74.2	61.1
		10:01 PM to 6:00 AM	44.5	60.2	51.8

Note: Noise Level Stipulated by KSPCB for Residential area is 55 dB (A) (During day time) and 45 dB(A) (During night time), For Commercial area 65 dB (A) (During day time) and 55 dB(A) (During night time), For Industrial area 75 dB (A) (During day time) and 70 dB(A) (During night time)

- Day Time is reckoned between 6 A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M.
- Leq: It is energy mean of the noise level over a specified period.
- *-dB (A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.!
- A "decibel" is a unit in which noise is measured.
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INFERENCE	As per CPCB Standards, Report Status: - The measured values for the above locations are within the standards.
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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00236
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 24/02/2021 to 25/02/2021
	Job Order No	: RE/2021/00236
	Date of Receipt	: 25/02/2021
	Analysis Start date	: 03/03/2021
	Analysis Completed date	: 03/03/2021
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: Noise Monitoring or 24 Hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00236	Near Byramangala Village	6:01 AM to 10:00 PM	47.9	56.9	52.2
		10:01 PM to 6:00 AM	38.6	44.9	41.6

Note: Noise Level Stipulated by KSPCB for Residential area is 55 dB (A) (During day time) and 45 dB(A) (During night time), For Commercial area 65 dB (A) (During day time) and 55 dB(A) (During night time), For Industrial area 75 dB (A) (During day time) and 70 dB(A) (During night time)

- Day Time is reckoned between 6 A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M.
- Leq: It is energy mean of the noise level over a specified period.
- *-dB (A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.]
- A "decibel" is a unit in which noise is measured.
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INFERENCE	As per CPCB Standards, Report Status: - The measured values for the above locations are within the standards.
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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00240
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 25/02/2021 to 26/02/2021
	Job Order No	: RE/2021/00240
	Date of Receipt	: 26/02/2021
	Analysis Start date	: 03/03/2021
	Analysis Completed date	: 03/03/2021
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00240	Near Gollarapalya Village	6:01 AM to 10:00 PM	49.8	55.8	52.7
		10:01 PM to 6:00 AM	38.9	47.5	43.0

Note: Noise Level Stipulated by KSPCB for Residential area is 55 dB (A) (During day time) and 45 dB(A) (During night time), For Commercial area 65 dB (A) (During day time) and 55 dB(A) (During night time), For Industrial area 75 dB (A) (During day time) and 70 dB(A) (During night time)

- Day Time is reckoned between 6 A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M.
- Leq: It is energy mean of the noise level over a specified period.
- *-dB (A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.]
- A "decibel" is a unit in which noise is measured.
- "A", in dB (A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear.

INFERENCE	As per CPCB Standards, Report Status: - The measured values for the above locations are within the standards.
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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00241
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 25/02/2021 to 26/02/2021
	Job Order No	: RE/2021/00241
	Date of Receipt	: 26/02/2021
	Analysis Start date	: 03/03/2021
	Analysis Completed date	: 03/03/2021
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00241	Near Abhanakuppe Village	6:01 AM to 10:00 PM	51.3	58.6	54.8
		10:01 PM to 6:00 AM	40.9	47.1	43.9

Note: Noise Level Stipulated by KSPCB for Residential area is 55 dB (A) (During day time) and 45 dB(A) (During night time), For Commercial area 65 dB (A) (During day time) and 55 dB(A) (During night time), For Industrial area 75 dB (A) (During day time) and 70 dB(A) (During night time)

- Day Time is reckoned between 6 A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M.
- Leq: It is energy mean of the noise level over a specified period.
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INFERENCE	As per CPCB Standards, Report Status: - The measured values for the above locations are within the standards.
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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00242
	Report date	: 03/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 25/02/2021 to 26/02/2021
	Job Order No	: RE/2021/00242
	Date of Receipt	: 26/02/2021
	Analysis Start date	: 03/03/2021
	Analysis Completed date	: 03/03/2021
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00242	Near Budivaderapalya Village	6:01 AM to 10:00 PM	49.6	57.1	53.2
		10:01 PM to 6:00 AM	37.5	45.9	41.5

Note: Noise Level Stipulated by KSPCB for Residential area is 55 dB (A) (During day time) and 45 dB(A) (During night time), For Commercial area 65 dB (A) (During day time) and 55 dB(A) (During night time), For Industrial area 75 dB (A) (During day time) and 70 dB(A) (During night time)

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- Night Time is reckoned between 10 P.M and 6 A.M.
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INFERENCE	As per CPCB Standards, Report Status: - The measured values for the above locations are within the standards.
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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001. Sample Qty: 2 Ltrs Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A). Sample Particulars: One sample of Borewell Water - Near Chinnagowdanapalya Village.	Report No.	: RE/2021/00251
	Report date	: 08/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00251
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
	Sampling Protocol	: E/WP/65

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	8.21	6.5 – 8.5	No relaxation	IS 3025 (Part – 11): 1983 Reaff.2017
4	Turbidity, NTU	4.3	1	5	IS 3025 (Part – 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	115.2	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	330.1	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	71.5	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	37.5	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	478.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	28.0	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	3.1	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.5	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	0.24	0.3	No relaxation	APHA 23 rd Edition
14	Lead as Pb, mg/L	<0.01	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	0.35	0.05	1.5	APHA 23 rd Edition
16	Zinc as Zn, mg/L	<0.05	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00251
	Report date	: 08/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00251
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021	
Sample Qty: 2 Ltrs	Sampling Protocol	: E/WP/65
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One sample of Borewell Water - Near Chinnagowdanapalya Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	<0.05	0.05	No relaxation	APHA 23 rd Edition
18	Dissolved oxygen, mg/L	3.2	-	-	APHA 23 rd Edition

Note: BDL for Cr: 0.05, Fe: 0.05, Pb:0.01, Zn:0.05, SO₄: 5.0, NO₃:5.0, F:0.1.

Remarks: The given water sample complies to IS: 10500-2012 specification for above tested parameters.

-----END OF THE REPORT-----

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB).

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Karnataka 560 001.

Report No.	: RE/2021/00252
Report date	: 08/03/2021
Reference	: Test Request Form
Sample receipt date	: 25/02/2021
Job Order No	: RE/2021/00252
Date of Sampling	: 25/02/2021
Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Particulars: One sample of Borewell Water - Near Rayaradoddi Village.

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part - 5): 1983 Reaff.2018
3	pH Value	8.2	6.5 - 8.5	No relaxation	IS 3025 (Part - 11): 1983 Reaff.2017
4	Turbidity, NTU	0.2	1	5	IS 3025 (Part - 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	221.2	250	1000	IS 3025 (Part - 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	524.3	200	600	IS 3025 (Part - 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	147.7	75	200	IS 3025 (Part - 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	38.5	30	100	IS 3025 (Part - 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	832.0	500	2000	IS 3025 (Part - 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	104.0	200	400	IS 3025 (Part - 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	15.4	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.6	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	<0.05	0.3	No relaxation	APHA 23 rd Edition
14	Lead as Pb, mg/L	<0.01	0.01	No relaxation	IS 3025 (Part - 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	0.058	0.05	1.5	APHA 23 rd Edition
16	Zinc as Zn, mg/L	<0.05	5	15	IS 3025 (Part - 49): 1994 Reaff 2019

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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB).

No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
Race Course Road, Bengaluru,
Karnataka 560 001.

Report No.	: RE/2021/00252
Report date	: 08/03/2021
Reference	: Test Request Form
Sample receipt date	: 25/02/2021
Job Order No	: RE/2021/00252
Date of Sampling	: 25/02/2021
Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Particulars: One sample of Borewell Water – Near Rayaradoddi Village.

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	<0.05	0.05	No relaxation	APHA 23 rd Edition
18	Dissolved oxygen, mg/L	2.8	-	-	APHA 23 rd Edition

Note: BDL for Cr: 0.05, Fe: 0.05, Pb:0.01, Zn:0.05, SO₄: 5.0, NO₃:5.0, F:0.1.

Remarks: The given water sample complies to IS: 10500-2012 specification for above tested parameters.

-----END OF THE REPORT-----

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8/3/21
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08/03/21
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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB).

No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
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Karnataka 560 001.

Report No.	: RE/2021/00253
Report date	: 08/03/2021
Reference	: Test Request Form
Sample receipt date	: 25/02/2021
Job Order No	: RE/2021/00253
Date of Sampling	: 25/02/2021
Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Particulars: One sample of Borewell Water - Near Bandebayalu Village.

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	8.0	6.5 – 8.5	No relaxation	IS 3025 (Part – 11): 1983 Reaff.2017
4	Turbidity, NTU	0.6	1	5	IS 3025 (Part – 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	69.1	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	287.4	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	57.5	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	35.6	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	412.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	30.2	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	4.4	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.3	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	<0.05	0.3	No relaxation	APHA 23 rd Edition
14	Lead as Pb, mg/L	<0.01	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	0.07	0.05	1.5	APHA 23 rd Edition
16	Zinc as Zn, mg/L	<0.05	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB).

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Report No.	: RE/2021/00253
Report date	: 08/03/2021
Reference	: Test Request Form
Sample receipt date	: 25/02/2021
Job Order No	: RE/2021/00253
Date of Sampling	: 25/02/2021
Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Particulars: One sample of Borewell Water - Near Bandebayalu Village.

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	<0.05	0.05	No relaxation	APHA 23 rd Edition
18	Dissolved oxygen, mg/L	3.5	-	-	APHA 23 rd Edition

Note: BDL for Cr: 0.05, Fe: 0.05, Pb:0.01, Zn:0.05, SO₄: 5.0, NO₃:5.0, F:0.1.

Remarks: The given water sample complies to IS: 10500-2012 specification for above tested parameters.

-----END OF THE REPORT-----

Jackelyn P. S.
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Report No.	: RE/2021/00254
Report date	: 08/03/2021
Reference	: Test Request Form
Sample receipt date	: 25/02/2021
Job Order No	: RE/2021/00254
Date of Sampling	: 25/02/2021
Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Particulars: One sample of Lake Water - Near Shyanumangala Village.

Sl. No.	Tests	Results	Protocol
Description: Colorless liquid.			
1	Color (hazen units)	<2.0	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	IS 3025 (Part - 5): 1983 Reaff.2018
3	pH Value	7.7	IS 3025 (Part - 11): 1983 Reaff.2017
4	Turbidity, NTU	7.1	IS 3025 (Part - 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	78.3	IS 3025 (Part - 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	139.8	IS 3025 (Part - 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	37.3	IS 3025 (Part - 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	11.5	IS 3025 (Part - 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	298	IS 3025 (Part - 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	12.8	IS 3025 (Part - 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	1.1	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	0.74	APHA 23 rd Edition
14	Lead as Pb, mg/L	<0.01	IS 3025 (Part - 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	<0.05	APHA 23 rd Edition
16	Zinc as Zn, mg/L	<0.05	IS 3025 (Part - 49): 1994 Reaff 2019

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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB).

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Report No.	: RE/2021/00254
Report date	: 08/03/2021
Reference	: Test Request Form
Sample receipt date	: 25/02/2021
Job Order No	: RE/2021/00254
Date of Sampling	: 25/02/2021
Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Particulars: One sample of Lake Water - Near Shyanumangala Village.

Sl. No.	Tests	Results	Protocol
17	Chromium as Cr, mg/L	<0.05	APHA 23 rd Edition
18	Dissolved oxygen, mg/L	3.3	APHA 23 rd Edition

Note: BDL for Cr: 0.05, Fe: 0.05, Pb:0.01, Zn:0.05, SO₄: 5.0, NO₃:5.0, F:0.1.

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Report No.	: RE/2021/00255
Report date	: 08/03/2021
Reference	: Test Request Form
Sample receipt date	: 25/02/2021
Job Order No	: RE/2021/00255
Date of Sampling	: 25/02/2021
Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagera District, Karnataka. (Ext-636.44 A).

Sample Particulars: One sample of Borewell Water - Near Shyanumangala Village.

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part - 5): 1983 Reaff.2018
3	pH Value	7.3	6.5 - 8.5	No relaxation	IS 3025 (Part - 11): 1983 Reaff.2017
4	Turbidity, NTU	0.2	1	5	IS 3025 (Part - 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	119.8	250	1000	IS 3025 (Part - 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	334.0	200	600	IS 3025 (Part - 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	76.2	75	200	IS 3025 (Part - 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	35.6	30	100	IS 3025 (Part - 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	480	500	2000	IS 3025 (Part - 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	32.1	200	400	IS 3025 (Part - 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	4.7	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.5	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	<0.05	0.3	No relaxation	APHA 23 rd Edition
14	Lead as Pb, mg/L	<0.01	0.01	No relaxation	IS 3025 (Part - 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	<0.05	0.05	1.5	APHA 23 rd Edition
16	Zinc as Zn, mg/L	<0.05	5	15	IS 3025 (Part - 49): 1994 Reaff 2019

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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00255
	Report date	: 08/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00255
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty: 2 Ltrs	Sampling Protocol	: E/WP/65
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One sample of Borewell Water - Near Shyanumangala Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	<0.05	0.05	No relaxation	APHA 23 rd Edition
18	Dissolved oxygen, mg/L	3.8	-	-	APHA 23 rd Edition

Note: BDL for Cr: 0.05, Fe: 0.05, Pb:0.01, Zn:0.05, SO₄: 5.0, NO₃:5.0, F:0.1.

Remarks: The given water sample complies to IS: 10500-2012 specification for above tested parameters.

-----END OF THE REPORT-----

Lakshmi Rao S
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M/s. Karnataka Industrial Areas Development Board (KIADB).

No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
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Karnataka 560 001.

Report No.	: RE/2021/00256
Report date	: 08/03/2021
Reference	: Test Request Form
Sample receipt date	: 25/02/2021
Job Order No	: RE/2021/00256
Date of Sampling	: 25/02/2021
Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Particulars: One sample of Borewell Water - Near Byramangala Village.

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	7.7	6.5 – 8.5	No relaxation	IS 3025 (Part – 11): 1983 Reaff.2017
4	Turbidity, NTU	0.3	1	5	IS 3025 (Part – 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	211.9	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	555.3	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	135.3	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	53.9	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	806	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	85.8	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	11.9	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.45	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	<0.05	0.3	No relaxation	APHA 23 rd Edition
14	Lead as Pb, mg/L	<0.01	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	0.06	0.05	1.5	APHA 23 rd Edition
16	Zinc as Zn, mg/L	<0.05	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00256
	Report date	: 08/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00256
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty: 2 Ltrs	Sampling Protocol	: E/WP/65
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One sample of Borewell Water - Near Byramangala Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	<0.05	0.05	No relaxation	APHA 23 rd Edition
18	Dissolved oxygen, mg/L	2.8	-	-	APHA 23 rd Edition

Note: BDL for Cr: 0.05, Fe: 0.05, Pb:0.01, Zn:0.05, SO₄: 5.0, NO₃:5.0, F:0.1.

Remarks: The given water sample complies to IS: 10500-2012 specification for above tested parameters.

-----END OF THE REPORT-----

Jackie K. K. K.
8/3/21
Verified by

S. P. D. 08/03/21
Authorized by

Note: 1. The results listed refer only to the tested samples and applicable parameters. 2. Test certificate should not be reproduced except in full, without written approval of the laboratory. 3. The submitted samples are drawn by the laboratory unless otherwise specified. 4. Endorsement of product is neither inferred nor implied. 5. Samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified. 6. This report cannot be used as evidence in the court of law & should not be used in any advertising media without our permission in writing. 7. Total liability of our lab is limited to the invoice amount and any disputes arising out of this report are subject to Bangalore jurisdiction only. 8. Laboratory is not responsible for the authenticity of photocopied test reports.



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Email : info@robustmaterials.com Website : www.robustmaterials.com

TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB).

No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
Race Course Road, Bengaluru,
Karnataka 560 001.

Report No.	: RE/2021/00257
Report date	: 08/03/2021
Reference	: Test Request Form
Sample receipt date	: 25/02/2021
Job Order No	: RE/2021/00257
Date of Sampling	: 25/02/2021
Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).

Sample Particulars: One sample of Borewell Water - Near Abhanakuppe village.

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	8.1	6.5 – 8.5	No relaxation	IS 3025 (Part – 11): 1983 Reaff.2017
4	Turbidity, NTU	0.3	1	5	IS 3025 (Part – 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	215	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	380.6	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	85.5	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	41.4	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	790.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	70.8	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	8.8	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.5	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	<0.05	0.3	No relaxation	APHA 23 rd Edition
14	Lead as Pb, mg/L	<0.01	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	<0.05	0.05	1.5	APHA 23 rd Edition
16	Zinc as Zn, mg/L	<0.05	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

Lawshu Pais
8/3/21
Verified by

JBS 08/03/21
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Note : 1. The results listed refer only to the tested samples and applicable parameters. 2. Test certificate should not be reproduced except in full, without written approval of the laboratory. 3. The submitted samples are drawn by the laboratory unless otherwise specified. 4. Endorsement of product is neither inferred nor implied. 5. Samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified. 6. This report cannot be used as evidence in the court of law & should not be used in any advertising media without our permission in writing. 7. Total liability of our lab is limited to the invoice amount and any disputes arising out of this report are subject to Bangalore jurisdiction only. 8. Laboratory is not responsible for the authenticity of photocopied test reports.



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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00257
	Report date	: 08/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00257
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty: 2 Ltrs	Sampling Protocol	: E/WP/65
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One sample of Borewell Water - Near Abhanakuppe village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	<0.05	0.05	No relaxation	APHA 23 rd Edition
18	Dissolved oxygen, mg/L	4.1	-	-	APHA 23 rd Edition

Note: BDL for Cr: 0.05, Fe: 0.05, Pb:0.01, Zn:0.05, SO₄: 5.0, NO₃:5.0, F:0.1.

Remarks: The given water sample complies to IS: 10500-2012 specification for above tested parameters.

-----END OF THE REPORT-----

Jackshaw
8/3/21
Verified by

08/03/21
Authorized by

Note: 1. The results listed refer only to the tested samples and applicable parameters. 2. Test certificate should not be reproduced except in full, without written approval of the laboratory. 3. The submitted samples are drawn by the laboratory unless otherwise specified. 4. Endorsement of product is neither inferred nor implied. 5. Samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified. 6. This report cannot be used as evidence in the court of law & should not be used in any advertising media without our permission in writing. 7. Total liability of our lab is limited to the invoice amount and any disputes arising out of this report are subject to Bangalore jurisdiction only. 8. Laboratory is not responsible for the authenticity of photocopied test reports.

TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00258
	Report date	: 08/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00258
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty: 2 Ltrs	Sampling Protocol	: E/WP/65
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One sample of Borewell Water - Near Budivadera Palya Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	7.0	6.5 – 8.5	No relaxation	IS 3025 (Part – 11): 1983 Reaff.2017
4	Turbidity, NTU	0.3	1	5	IS 3025 (Part – 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	184.3	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	403.9	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	113.5	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	29.8	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	810.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	92.6	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	9.1	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.9	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	<0.05	0.3	No relaxation	APHA 23 rd Edition
14	Lead as Pb, mg/L	<0.01	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	0.16	0.05	1.5	APHA 23 rd Edition
16	Zinc as Zn, mg/L	<0.05	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

Lakshmi K
Verified by
08/03/21

S. B. S
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08/03/21



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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00258
	Report date	: 08/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00258
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty: 2 Ltrs	Sampling Protocol	: E/WP/65
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One sample of Borewell Water - Near Budivadera Palya Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	<0.05	0.05	No relaxation	APHA 23 rd Edition
18	Dissolved oxygen, mg/L	3.4	-	-	APHA 23 rd Edition

Note: BDL for Cr: 0.05, Fe: 0.05, Pb:0.01, Zn:0.05, SO₄: 5.0, NO₃:5.0, F:0.1.

Remarks: The given water sample complies to IS: 10500-2012 specification for above tested parameters.

-----END OF THE REPORT-----

Jackshree Gowris
8/3/21
Verified by

S. B. S. 08/03/21
Authorized by

Note: 1. The results listed refer only to the tested samples and applicable parameters. 2. Test certificate should not be reproduced except in full, without written approval of the laboratory. 3. The submitted samples are drawn by the laboratory unless otherwise specified. 4. Endorsement of product is neither inferred nor implied. 5. Samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified. 6. This report cannot be used as evidence in the court of law & should not be used in any advertising media without our permission in writing. 7. Total liability of our lab is limited to the invoice amount and any disputes arising out of this report are subject to Bangalore jurisdiction only. 8. Laboratory is not responsible for the authenticity of photocopied test reports.



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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00243
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00243
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Shyanumangala Village.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	7.6	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ mhos/cm	364.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	359.7	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	10.9	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	4.5	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	481.4	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	145.2	Practical Manual for Hands on training GKV Bengaluru
<p><i>Verified by</i> 8/3/21</p> <p><i>Authorized by</i> 8/3/21</p>			

Note: 1. The results listed refer only to the tested samples and applicable parameters. 2. Test certificate should not be reproduced except in full, without written approval of the laboratory. 3. The submitted samples are drawn by the laboratory unless otherwise specified. 4. Endorsement of product is neither inferred nor implied. 5. Samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified. 6. This report cannot be used as evidence in the court of law & should not be used in any advertising media without our permission in writing. 7. Total liability of our lab is limited to the invoice amount and any disputes arising out of this report are subject to Bangalore jurisdiction only. 8. Laboratory is not responsible for the authenticity of photocopied test reports.



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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00243
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00243
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Shyanumangala Village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	20.1	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.03	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	34.1	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	472.4	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	18.5	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	33.8	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	24.9	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	11.5	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	13.8	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

-----END OF THE REPORT-----

Lakshmi Bai S
8/3/21
Verified by

S. D. D. S.
Authorized by

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00244
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00244
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Bandebayalu Village.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	7.8	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ mhos/cm	176.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	183.5	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	3.8	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	4.1	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	754.8	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	192.0	Practical Manual for Hands on training GKV Bengaluru
<p>Verified by <i>Leeshu Jais</i> 8/3/21</p> <p>Authorized by <i>S. P. B.</i> 08/03/21</p>			
Page 1 of 2			

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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00244
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00244
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021	
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Bandebayalu Village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	9.8	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.003	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	2.08	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	17.8	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	8.16	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	22.73	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	20.76	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	1.83	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	21.29	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

-----END OF THE REPORT-----

Janakshree Rai S
8/3/21
Verified by

S-015 08/03/21
Authorized by

Note: 1. The results listed refer only to the tested samples and applicable parameters. 2. Test certificate should not be reproduced except in full, without written approval of the laboratory. 3. The submitted samples are drawn by the laboratory unless otherwise specified. 4. Endorsement of product is neither inferred nor implied. 5. Samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified. 6. This report cannot be used as evidence in the court of law & should not be used in any advertising media without our permission in writing. 7. Total liability of our lab is limited to the invoice amount and any disputes arising out of this report are subject to Bangalore jurisdiction only. 8. Laboratory is not responsible for the authenticity of photocopied test reports.



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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00245
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00245
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Gollarapalya Village.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	7.3	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ mhos/cm	174.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	336.5	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	5.6	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	5.04	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	306.5	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	96.0	Practical Manual for Hands on training GKV Bengaluru
<p>Verified by: <i>Lakshmi Bai</i> 8/3/21</p> <p>Authorized by: <i>S. S. S. S.</i> 10/3/21</p>			
Page 1 of 2			

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Nagarabhavi, Bengaluru - 560 072. Tel : 080 2318 6230

Email : info@robustmaterials.com Website : www.robustmaterials.com

TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00245
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00245
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Gollarapalya Village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	14.0	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.007	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	67.7	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	1061.9	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	11.23	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	19.22	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	24.54	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	6.91	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	9.68	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

-----END OF THE REPORT-----

Lakshmi K S
3/21
Verified by

S 08/03/21
Authorized by

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Email : info@robustmaterials.com Website : www.robustmaterials.com

TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00246
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00246
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021	
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Rayaradoddi Village.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	6.9	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ mhos/cm	230.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	251.7	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	5.7	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	2.7	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	691.2	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	93.0	Practical Manual for Hands on training GKV Bengaluru
<p>Verified by <i>Lakshmi Sai-S</i> 8/3/21</p> <p>Authorized by <i>S. P. B.</i> 08/03/21</p>			

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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00246
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00246
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021	
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Rayaradoddi Village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	37.8	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.004	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	2.67	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	22.4	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	14.0	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	27.46	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	16.30	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	6.83	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	9.83	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

-----END OF THE REPORT-----

Lawrence P. S.
3/3/21
Verified by

S. O. B. 08/03/21
Authorized by

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00247
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00247
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Billakempanahalli Village.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	7.0	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ mhos/cm	197.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	265.5	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	2.5	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	1.9	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	622.7	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	180.0	Practical Manual for Hands on training GKV Bengaluru
<p>Verified by <i>Lakshmi</i> 8/3/21</p> <p>Authorized by <i>S. B. S. 08/03/21</i></p>			
Page 1 of 2			

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	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00247
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Billakempanahalli Village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	1.8	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.012	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	6.30	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	150.1	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	12.19	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	27.20	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	15.03	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	7.27	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	13.07	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

-----END OF THE REPORT-----

Lakshmi Patis
23/2/21
Verified by

S. P. B. 08/03/21
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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00248
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00248
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021	
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Abhanakuppe village.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	8.5	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ mhos/cm	202.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	195.5	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	5.6	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	4.4	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	1016.8	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	60.0	Practical Manual for Hands on training GKV Bengaluru
<p>Verified by <i>Jayashree K</i> 8/3/21</p> <p>Authorized by <i>SAD</i> 08/03/21</p>			

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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00248
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00248
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagera District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Abhanakuppe village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	1.89	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.006	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	6.19	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	80.2	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	13.41	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	38.72	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	22.81	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	6.37	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	32.62	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

-----END OF THE REPORT-----

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00249
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00249
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
Analysis completion date	: 08/03/2021	
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Budivadera Palya Village.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	6.9	Practical Manual for Hands on training GKVK Bengaluru
2	Conductivity, μ hos/cm	211.0	Practical Manual for Hands on training GKVK Bengaluru
3	Chloride as Cl, mg/Kg	266.7	Practical Manual for Hands on training GKVK Bengaluru
4	Moisture, %	3.91	Practical Manual for Hands on training GKVK Bengaluru
5	Organic Matter, %	1.9	Practical Manual for Hands on training GKVK Bengaluru
6	Calcium as Ca, mg/Kg	728.5	Practical Manual for Hands on training GKVK Bengaluru
7	Magnesium Mg, mg/Kg	156.0	Practical Manual for Hands on training GKVK Bengaluru
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p><i>Kareshwari Pai-S</i> 8/3/21 Verified by</p> </div> <div style="text-align: center;"> <p><i>S. B. D. 08/03/21</i> Authorized by</p> </div> </div>			
Page 1 of 2			

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TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00249
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00249
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagara District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Budivadera Palya Village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	38.4	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.005	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	5.99	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	89.9	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	6.63	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	10.43	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	24.67	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	4.76	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	4.8	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

-----END OF THE REPORT-----

Jeeva S
23/2/21
Verified by

S D 08/03/21
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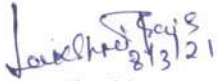
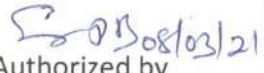
No. 94, 2nd Floor, Thirumala Complex, Nagarabhavi Main Road, NGEF Layout,
Nagarabhavi, Bengaluru - 560 072. Tel : 080 2318 6230

Email : info@robustmaterials.com Website : www.robustmaterials.com

TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00250
	Report date	: 08/03/2021
	reference	: Test Request Form
	Sample receipt date	: 25/02/2021
	Job Order No	: RE/2021/00250
	Date of Sampling	: 25/02/2021
	Analysis start date	: 26/02/2021
	Analysis completion date	: 08/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Bidadi Industrial Area, 2nd Phase, Ramanagera District, Karnataka. (Ext-636.44 A).		
Sample Particulars: One Soil Sample- Near Byramangala Village.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	7.45	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ mhos/cm	199.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	225.2	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	3.2	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	2.9	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	428.0	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	84.0	Practical Manual for Hands on training GKV Bengaluru
<p>Verified by  8/3/21</p> <p>Authorized by  08/03/21</p>			
Page 1 of 2			

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Sample Particulars: One Soil Sample- Near Byramangala Village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	37.6	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.005	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	3.18	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	19.2	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	10.67	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	27.68	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	5.26	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	5.45	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	10.83	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

-----END OF THE REPORT-----

Verified by
8/3/21

Authorized by
08/03/21

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