

# KARNATAKA INDUSTRIAL AREAS DEVELOPMENT BOARD

(A Government of Karnataka Undertaking)

# 49, 4th & 5th Floors, 'East Wing', Khanija Bhavan, Race Course Road, Bengaluru - 560 001

Phone : 080-22265383 Fax : 080-22267901

Website : www.kiadb.in email: ceoemkiadb@gmail.com

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 Vasanthanarasapura Industrial Area (Phase-I), KIADB at Kempanadodderi, Nagenahalli, Thimmarajanahalli and Giriyanahalli Villages, Tumkur Taluk & District, Karnataka to an extent of 782.22 Acres.

- Ref.:**
1. Environmental Clearance reference no.: No. SEIAA: 4: IND: 2013 dated 22<sup>nd</sup> August 2013.
  2. General Condition imposed in the Environmental Clearance for submission of Half yearly Compliance @ Condition No. 4.

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With reference to above subject, it is to be informed that SEIAA has issued Environmental Clearance for Establishment of Vasanthanarasapura Industrial Area (Phase-I), KIADB at Kempanadodderi, Nagenahalli, Thimmarajanahalli and Giriyanahalli Villages, Tumkur Taluk & District, Karnataka to an extent of 782.22 Acres, after finalizing the ToR and after conducting the public hearing.

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 22<sup>nd</sup> August 2013.

Hence, the detailed point wise compliance report to all the conditions stipulated in the Environmental Clearance issued to of Vasanthanarasapura Industrial Area (Phase-I) 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 the Environmental Clearance issued with respect to Development of Vasanthanarasapura Industrial Area (Phase-I) at Kempanadodderi, Nagenahalli, Thimmarajanhalli and Giriyanahalli Villages, Tumkur Taluk & District, Karnataka.**

**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.)

Plot No.94, Thirumala Complex, 2nd Floor, NGEF Layout, Nagarabhavi Main Road,  
Bengaluru - 560 072.

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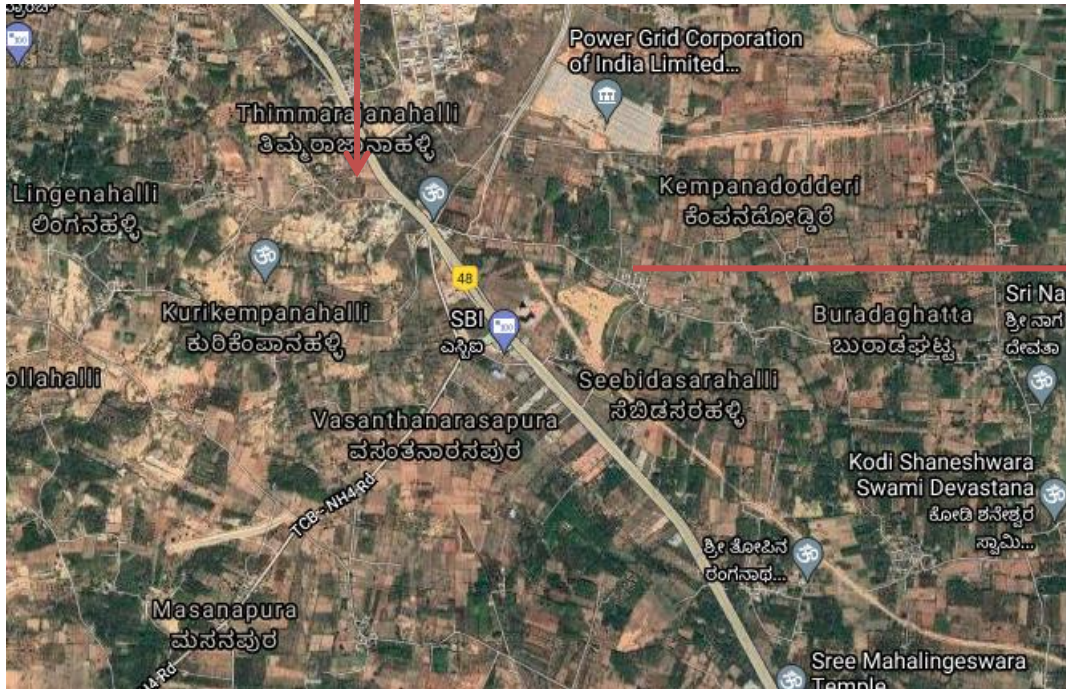
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## **1.0. PROJECT DETAILS:**

- 1) Name of the Project:** Development of Vasanthanarasapura Industrial Area (Phase-I) at Kempanadodderi, Nagenahalli, Thimmarajanahalli and Giriyanahalli Villages, Tumkur Taluk & District, Karnataka.
- 2) Environmental Clearance reference no.:** No. SEIAA: 4: IND: 2013 dated 22<sup>nd</sup> August 2013.
- 3) Total Plot Area:** 782.22 Acres.
- 4) Category of Industries:** Red, Orange and Green category.
- 5) Total Water requirement for the Industrial area:** 5 MLD (Domestic: 1.60 MLD + Industrial: 1.90 MLD + Gardening: 1.5 MLD) will be met from Hemavathi Canal.
- 6) Total Wastewater generation:** 2.80 MLD (Domestic effluent: 1.30 MLD + Industrial effluent: 1.5 MLD).
- 7) Total Power Requirement:** 5000 KVA will be sourced from KPTCL.
- 8) Schedule & Category:** 7 (C) & B category.
- 9) Address of the Correspondence:**

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

2.0. LOCATION MAP:



Vasanthanarasapura Industrial Area (Phase-I), Tumkur.

**Fig.1:** Map showing Vasanthanarasapura Industrial Area (Phase-I), Tumkur.

**Half yearly Environmental Compliance report for Vasanthanarasapura Industrial Area (Phase-I),  
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**3.0. Half Yearly Environmental Compliance Report for all the Conditions Stipulated in the Environmental Clearance issued with respect to Development of Vasanthanarasapura Industrial Area (Phase-I) at Kempanadodderi, Nagenahalli, Thimmarajanahalli and Giriyanahalli Villages, Tumkur Taluk & District, Karnataka. (Ext-782.22 Acres).**

<b>Sl. No.</b>	<b>CONDITIONS STIPULATED IN THE EC</b>	<b>COMPLIANCE STATUS</b>
<b>A</b>	<b>SPECIFIC CONDITIONS:</b>	
<b>I</b>	<b>Construction Phase:</b>	
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.	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 07 <sup>th</sup> February 2014. 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 maintain all the environmental aspects such as sewage treatment, solid waste disposal, maintenance of green belt area 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.	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 the Project both during construction and operation of the project.	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.

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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.	Complied. Mostly construction labourers /workers from the surrounding villages 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 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.	Noted.
9	For disinfection 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.	Noted. During the operation phase of the industrial area, individual Industrial units will be advised to adapt these methods wherever possible for water conservation.
10	All the topsoil excavated during 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 with 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 the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Noted and complied. The construction debris will be reused / recycled for backfilling and for construction of roads and when necessary the debris is 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 report submitted to SEIAA.	Noted. All necessary precautions will be taken to ensure that there is no contamination of soil and ground water.



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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.	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 after carrying out proper segregation of each category of waste and disposed scientifically, to prevent the contamination of 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.	Noted. The fuel used in individual DG sets used during construction phase will use low sulphur diesel 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 the applicable air and noise emission standards and should be operated only during non-peak hours.	Individual 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.

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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.	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 provision of Fly ash notification of September 1999 and amended as on 27th August 2003.	Noted. As far as possible Fly ash should 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 site development and building construction.	Noted.
20	Storm water control and its reuse as per CGWB and BIS standard 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 ENV2003 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 by KIADB 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.

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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 be informed to 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 building due to earthquake, adequacy of fire fighting equipment etc. as per the National Building Code (NBC) including protection measures for 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.	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 the 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.

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32	The project Authorities shall ensure that the National Building Code, 2005 is complied with and adhered to.	Noted. 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 lip in the Kharab land and 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 33% of the plot area allotted for them.	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 are 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/JDTP/EC /90/3480/2013-14 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 will be 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 company will undertake all relevant measures, as indicated during the Public Hearing for improving the Socio-economic conditions of the surrounding area.	Noted. The suggestions/observations and concerns made during the public hearing will be duly considered and all required measures are being taken to improve the socio-economic conditions of the project and surrounding area.
38	The project Authorities shall undertake 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.	Noted and being complied as suggested. Steps with respect to CSR/CER responsibilities will be being taken. Allotted funds are being used for the development of infrastructure. Awareness programmes, training programmes, distributions of saplings for planting in forest areas are being done as part of CSR/ CER responsibilities.

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<b>II</b>	<b>Operation Phase</b>	
1	The Company shall implement all the recommendations made in the Environmental Impact Assessment / EMP report and risk assessment report.	Noted and complied with all the recommendations made in the Environmental Management Plan and applicable mitigation measures are adopted wherever required.
2	The installation of the Sewage Treatment Plant (STP) / Effluent Treatment Plant (ETP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry 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. Necessary measures should be made to mitigate the odour problem from STP.	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.
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.	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.

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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 maybe decided with in consultation with Karnataka State Pollution Control Board.	Noted. The fuel used in individual DG sets 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 use of DG sets. The industries are advised to install 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.
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. 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 greenbelt 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 5 mtrs. above the highest ground water table.	Noted. The project area and the industries proposed to operate within the area will be informed to provide with rain water harvesting systems and the industries will be advised to adapt 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.

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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. Depending on the width of the roadways 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 month's time.	Noted.
12	Energy conservation measures like installation of LED's, 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.	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 lead to 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.

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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 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.	Noted. 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 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.	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 E.C.	Noted.
<b>B</b>	<b>GENERAL CONIDITIONS:</b>	
1	The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board (KSPCB).	Noted. All stipulations made by the KSPCB shall be strictly followed.



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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 protection measures and steps will be taken for Environmental protection.
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 and will be complied.
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 <a href="http://www.seiaa.kar.nic.in">http://www.seiaa.kar.nic.in</a> . 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.	Noted and complied.
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.	Noted and informed as suggested.
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 mantle will implement these conditions.	Noted.

**Halfyearly Environmental Compliance report for Vasanthanarasapura Industrial Area (Phase-I),  
Tumkur District - 2021**

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 Waste (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with 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. 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 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.	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 changes 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 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.	Noted.

**Halfyearly Environmental Compliance report for Vasanthanarasapura Industrial Area (Phase-I),  
Tumkur District - 2021**

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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.	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 Particulate Matter (PM 10), Fine Particulate Matter (PM 2.5), Sulphur Dioxide (SO<sub>2</sub>) and Nitrogen Dioxide (NO<sub>2</sub>) 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<sub>x</sub> and NO<sub>x</sub>:

Sl. No.	Parameters	Limits (As Per NAAQS) for 24hrs	Minimum Value	Maximum Value	Average Value
1	Particulate Matter PM <sub>10</sub> , µg/m <sup>3</sup>	100	58.6	65.9	60.8
2	Particulate Matter PM <sub>2.5</sub> , µg/m <sup>3</sup>	60	19.8	24.8	22.6
3	Nitrogen Dioxide NO <sub>2</sub> , µg/m <sup>3</sup>	80	15.3	22.6	19.2
4	Sulphur dioxide as SO <sub>2</sub> , µg/m <sup>3</sup>	80	8.5	12.4	10.6

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 KIADB Office- Vasanthanarasapura Industrial Area, 1st Stage - Project Site	58.3	47.3	55	45
2	Near Giriyanahalli Village	51.5	42.6	55	45
3	Near Chikkenahalli Village	54.2	43.9	55	45
4	Near Thimmarajanahalli Village	52.5	43.2	75	70
5	Near Kurikempanahalli Village	53.1	47.3	75	70
6	Near Somasagara Village	52.4	42.4	55	45
7	Near Yeladadlu Village	53.6	43.4	55	45
8	Near Nagenahalli Village	53	42.9	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 IS 10500.

<b>Sl. No.</b>	<b>Parameters</b>	<b>Minimum Value</b>	<b>Maximum Value</b>	<b>Average Value</b>
1	Color (hazen units)	<2.0	<2.0	<2.0
2	Odour	Agreeable	Agreeable	Agreeable
3	pH Value	7.64	8.43	8.1
4	Turbidity, NTU	0.1	0.5	0.2
5	Chloride as Cl, mg/L	18.4	46.1	32.8
6	Total hardness as CaCO <sub>3</sub> , mg/L	201.9	395.1	283.3
7	Calcium as Ca, mg/L	32.6	77.7	62.2
8	Magnesium as Mg, mg/L	19.8	33.9	28.1
9	Total dissolved Solids, mg/L	324	582	453.0
10	Sulphate as SO <sub>4</sub> , mg/L	11.6	33.2	22.7
11	Nitrate as NO <sub>3</sub> , mg/L	4.2	5.2	5.0
12	Fluoride as F, mg/L	0.2	0.3	0.3
13	Iron as Fe, mg/L	BDL	BDL	BDL
14	Lead as Pb, mg/L	BDL	BDL	BDL
15	Copper as Cu, mg/L	BDL	BDL	BDL
16	Zinc as Zn, mg/L	BDL	BDL	BDL
17	Chromium as Cr, mg/L	BDL	BDL	BDL
18	Dissolved oxygen, mg/L	3.1	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.

<b>Sl. No.</b>	<b>Soil Parameters</b>	<b>Minimum Value</b>	<b>Maximum Value</b>	<b>Average Value</b>
1	pH (20% Suspension)	6.88	8.34	7.4
2	Conductivity, $\mu$ mhos/cm	52	217	126.3
3	Chloride as Cl, mg/Kg	149.4	221.59	169.9
4	Moisture, %	0.03	14.5	5.3
5	Organic Matter, %	0.76	3.73	2.2
6	Calcium as Ca, mg/Kg	241.4	616.5	460.4
7	Magnesium Mg, mg/Kg	88.8	346.8	215.6
8	Colour	Brown	Brown	Brown
9	Sulphur as S, mg/Kg	4.3	9.8	5.8
10	Nitrogen as N, %	0.004	0.01	0.0073
11	Phosphorous as P, mg/Kg	1.49	9.75	3.5
12	Potassium as K, mg/Kg	26.9	297.4	103.1
13	Copper as Cu, mg/Kg	2.62	24.03	11.0
14	Chromium as Cr, mg/Kg	3.1	44.65	23.7
15	Zinc as Zn, mg/Kg	2.43	20.4	7.5
16	Lead as Pb, mg/Kg	3.46	7.85	5.6
17	Nickel as Ni, mg/Kg	3.4	43.29	19.0
18	Cadmium as Cd, mg/Kg	<0.1	<0.1	<0.1

No. SEIAA: 4 : IND: 2013

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, 7<sup>th</sup> Floor, IV-Gate,  
M.S. Building, Bangalore-560 001,

Date: 22<sup>nd</sup> August 2013.

To,

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

Phone No: (080) 22211066, 22215383, 22215069.

Fax No: (080) 22217702.

Email: [kiadb@mail.kar.nic.in](mailto:kiadb@mail.kar.nic.in)

Sir,

Sub: Development of Vasanthanarasapura Industrial Area  
(Phase-I) at Kempanadodderi, Nagenahalli,  
Thimmarajanahalli and Giriyanahalli Villages, Tumkur  
Taluk & District by Karnataka Industrial Area  
Development Board (KIADB) - Issue of Environmental  
Clearance- reg.

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This has reference to your applications No. KIADB/EIA/CEO&EM/13044/2012-13 dated: 04.01.2013 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 an industrial theme park with a vision of providing "Hassle free production environment" for the manufacturing of IT/BT precision, electronic industries, garments and food processing/chemical industries, rubber, plastic, foundry and other/general industries on a plot area of 782.22 acres (Details of the land as in Annexure). Out of 782.22 acres 469.8187 acres is for industrial area, 39.0013 acres is for civic



amenities, 91.6123 acres is for park, 70.7902 acres is for parking, 76.6688 acres is for roads and 34.3083 acres is for buffer zone. Total water requirement for the industrial area is 5 MLD (Domestic: 1.60 MLD + Industrial: 1.90 MLD + Gardening: 1.5 MLD) will be met from Hemavathi Canal. Total waste water generated is 2.80 MLD (Domestic effluent: 1.30 MLD + Industrial effluent: 1.5 MLD). Domestic waste water will be treated in STP of 1.50 MLD and industrial effluent will be treated in CETP of 1.70 MLD capacity. Total power requirement is 5000 KVA will be sourced from KPTCL.

It was noted that, the project proposal was considered initially by Expert Appraisal Committee (EAC), Ministry of Environment and Forests, Govt. of India, New Delhi and ToRs were issued on 10<sup>th</sup> November 2009 for conducting Environment Impact Assessment Study. EIA has been conducted by M/s. Ramky Enviro Engineers Limited, "Ramky House" Site No. 25-30, 2<sup>nd</sup> Cross, Raghavendra Nagar, Hennur Ring Road, Kalyan Nagar (Post), Bangalore - 560 043 who is NABET, QCI accredited. The public consultation was held on 12.01.2012.

It was further noted that, the final EIA have been presented before EAC, MoEF, GOI, New Delhi in their 116<sup>th</sup> Meeting held on 19<sup>th</sup> - 21<sup>st</sup> December 2012. The EAC has suggested the proponent to apply before the SEIAA as no 'A' category activities are envisaged.

The SEAC, Karnataka, based on the information submitted by you, presentation made by you and the consultant, M/s. Ramky Enviro Engineers Limited, "Ramky House" Site No. 25-30, 2<sup>nd</sup> Cross, Raghavendra Nagar, Hennur Ring Road, Kalyan Nagar (Post), Bangalore - 560 043, during the meeting held on 18<sup>th</sup> - 19<sup>th</sup> January 2013, 14<sup>th</sup> - 15<sup>th</sup> February 2013 & 5<sup>th</sup> 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 17<sup>th</sup> 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 firefighting 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.
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/JDTP/EC /90/3480/2013-14 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.
37. The company will undertake all relevant measures, as indicated during the Public Hearing for improving the Socio-economic conditions of the surrounding area.
38. The project Authorities shall undertake 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 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.
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 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, if any 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 E.C.

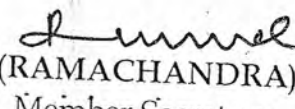
#### **B. GENERAL CONDITIONS:**

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)  
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, 17<sup>th</sup> Main Road, Koramangala II Block, Bangalore-560 034.
4. Guard File.



Annexure to Environmental Clearance letter No. SEIAA 4 IND 2013  
dated 22<sup>nd</sup> August 2013

Details of Land of the Proposed Vasanthanarasapura Industrial Area 1<sup>st</sup> stage

Village: Vasanthnarasapura, Taluk: Tumkur Dist: Tumkur

Name of village	Survey No.	Extent in Acre Guntas
Kempanadoderi	91	9-06
	93/1	0-11
	<b>Total</b>	9-17
Nagenahalli	1/1	2-11
	1/2	1-38
	1/3	0-22
	1/4	0-21
	1/5	0-19
	1/6	0-30
	1/7	0-18
	1/8	1-09
	1/9	1-05
	1/10	0-24
	1/11	0-13
	1/12	0-15
	1/13	0-14
	1/14	0-15
	2/1	0-16
	2/2	14-13
	4/1	2-36
	4/2	3-24
	9/1	4-00
	9/2	3-33
	9/3	3-33
	9/4	2-08
	10P	13-05
12P	15-27	
12P	12-31	
13	3-16	
14/1	8-18	
14/2	4-04	
15/1	6-23	

	15/2	0-28
	15/3	0-34
	15/4	0-20
	15/5	0-30

	16	24-16
	17	7-04
	18	9-25
	19	11-13
	20	19-37
	21/1	1-12
	21/2	5-24
	21/3	3-24
	22/1	2-20
	22/2	1-28
	22/3	0-26
	22/4	0-25
	22/5	0-27
	22/6	0-26
	22/7	0-33
	22/8	0-36
	23	27-17
	24/1	5-35
	24/2	1-37
	24/3	0-26
	24/4	1-32
	25P	2-02
	26/1	6-00
	26/2	3-21
	26/3	1-37
	28/1P	5-36
	28/1	2-00
	28/2	2-20
	31	18-24
	32	5-37
	33/1	1-36
	33/2	3-21
	33/3	4-37
	33/4	1-13
	34/1	16-36
	34/2	6-15
	35	4-09
	36	7-33
	37/1	3-32 1/2
	37/2	1-36
	37/3	1-37 1/2
	38/1	3-23
	38/2	2-23
	38/3	2-12
	38/4	1-38
	38/5	3-19
	38/6	0-35



	15/3AP	0-10
	16/5	0-11
	16/7	2-33
	17	16-39
	18	8-38
	19	6-21
	20	7-08
	21/1	11-28
	21/2	0-38
	21/3	1-05
	21/4	1-02
	21/5	1-00
	21/6	2-32
	21/7	0-36
	21/8	0-33
	21/9	1-07
	21/10	1-23
	22	4-21
	30/4A	0-22
	30/4B	0-23
	30/4C1	3-02
	30/4C2	1-01
	30/4D	2-19
	30/5	2-10
	31/1P	0-14
	42	9-00
	43	4-00
	44	4-00
	45	4-31
	46	2-01
	50	2-25
	<b>Total</b>	<b>135 -21</b>
Giriyahalli	3/2	8-29
		8-29

**SUMMARY:**

Sl no.	Village	Extent in Acres Guntas
1	Kempanadodderi	9-17
2	Nagenahalli	628-35
3	Thimarajanahalli	135-21
4	Giriyahalli	8-29
	<b>Total</b>	<b>782-22</b>

*[Handwritten Signature]*  
 Scientific Officer, Grade-I  
 Forest Ecology & Environmental  
 K.G.S. MS Building  
 Bengaluru 560 1

Vosauth Narayapura 1st phase

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



CFE

☎ 25581383, 25589112  
25588151, 25588270  
25588142, 25586520

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

KIADB-Tumkur-782.22

/ BY REGD. POST WITH ACK. DUE /

(This document contains \_\_\_\_\_ pages including Annexures)

NO. PCB/01/CNP/11/ 6322

Dated:

07 FEB 2014

To  
The Development Officer,  
Karnataka Industrial Areas Development Board,  
# 92-P, Near Rim Hospital,  
Old NO.04, Sira Gate Post,  
Tumkur - 572 106.

ರವಾನಿಸಲಾಗಿದೆ

Sir,

Sub: Consent for establishment to develop an Industrial Area (Phase-1) in an area of 782.22 Acres at various Sy. No. of Kempanadodderi, Nagenahalli, Thimmarajanahalli & Giriyanahalli Villages enclosed as Annexure-I, Tumkur Taluk & District by M/s. The Karnataka Industrial Areas Development Board.

- Ref: 1. CFE applications received at Regional Office, KSPCB, Tumkur on 06.10.2010.  
2. Inspection of the proposed project site by Officer of the Regional Office, KSPCB, Tumkur on 29.11.2011.  
3. E.C. vide No. SEIAA:4:IND:2013 dated 22.08.2013.  
4. Proceedings of the consent committee meeting held on 25.10.2013.  
5. Project authorities letter dated 05.12.2013.

<<<<>>

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 develop an Industrial Area (Phase-1) in an area of 782.22 Acres at various Sy. No. of Kempanadodderi, Nagenahalli, Thimmarajanahalli & Giriyanahalli Villages enclosed as Annexure-I, Tumkur Taluk & District by M/s. The Karnataka Industrial Areas Development Board, subject to the following conditions.

Senior Environmental Officer.

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

- a) 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.
- b) The applicant shall control the movement of vehicles carrying construction materials in order to avoid noise pollution in the surrounding.

**II. WATER CONSUMPTION:**

1. The total water consumption for the above project activity shall not exceed 5 MLD.

**III. WATER POLLUTION CONTROL:**

1. The KIADB authorities shall install CSTP and CETP for the treatment of sewage and industrial effluent as stipulated in Environmental Clearance.
2. Individual units shall install effluent treatment plants/Sewage treatment plants after obtaining separate CFE from the Board.
3. The applicant shall earmark 10 Acres of land in the industrial layout for common STP and Solid waste storage facilities.

**IV. AIR POLLUTION CONTROL:**

1. Individual units shall obtain CFE and CFO for installation of air pollution sources to be installed in their premises.
2. The applicant shall provide dust suppression systems with water sprinkling system during construction period.
3. The applicant should make provisions for dual piping system to use the treated sewage water for toilet flushing, gardening and other purposes

**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., the noise level from the noise generating equipments viz., DG sets, AC units etc., shall not exceed 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.

*[Signature]* 3/2/11  
Senior Environmental Officer.

#### VI. MoEF E.C. CONDITIONS:

- i) The applicant shall strictly comply with all conditions mentioned in E.C. No. SEIAA:4:IND:2013 dated 22.08.2013.
- ii) An Environmental Management Cell with appropriate lab facility shall be created as the project starts. They shall monitor all necessary parameters and activities during construction and operational phases from day one.
- iii) Sewage shall be treated and the treated sewage shall be used in dual plumbing systems/cooling make-up/green belt etc., The disposal of treated waste water shall conform to the regulation of State Pollution Control Board.
- iv) There shall be no disposal of solid or liquid wastes on coastal area. Solid waste Management shall be as per Municipal Solid (Management and Handling) Rules, 2000.

#### VII. SOLID 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 other than wastes covered under the Hazardous Waste (Management & Handling) Rules in such manner so as not to cause environmental pollution.
2. The applicant shall earmark 10 Acres of area for common STP and non hazardous waste Solid waste storage and processing facility in the earmarked waste management area proposed.

#### VIII. HEALTH & SAFETY:

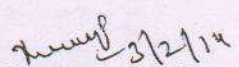
1. The applicant shall provide all necessary healthcare facilities to workers and shall carry out routine health survey among workers..
2. The applicant shall provide all safety measures including personal protective equipments to workers during construction.

#### IX. GENERAL:

1. The applicant shall adhere to the Zonal Regulations norms of competent authority.
2. The applicant shall comply with the provisions of Water (Prevention and Control of Pollution) Cess Act, 1977.
3. The applicant must create structure/facility for rain water harvesting and ground water recharge.

*[Signature]* 3/2/14  
Senior Environmental Officer

4. The individual industries shall provide dual piping system in the layout in order to use the treated sewage for toilet flushing, gardening and other secondary purposes.
5. The applicant shall arrange for alternate power supply to run and operate the essential units of effluent Treatment Plants/sewage treatment plants, in event of brake down of regular supply from Electricity Board.
6. 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
7. 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 ETPs/STPs.
8. The applicant shall make provisions for wooded Buffer zone all along the periphery of the layout.
9. The applicant shall implement the Environmental Management Plan during construction and after construction as given under EMP report.
10. The applicant shall not change or alter (a) number of Sites (b) Layout plan (c) the quality, quantity or rate of discharge/ emissions and (d) install/replace/alter the water or air pollution control measures without the prior approval of the Board.
11. 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.
12. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
13. This consent for establishment shall be valid for a period of Five years from the date of issue of this Order.
14. 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.

  
Senior Environmental Officer.



15. 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.
16. 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.
17. The CFE is issued without prejudice to the Court case pending in any Hon'ble Courts.

Please note that separate consent of the Board for discharge of liquid effluent shall have to be obtained by remitting prescribed consent fee. The application for consent has to be made 45 days in advance to completion of Industrial area. Issue of consent will be considered only after completion of sewage treatment plant, solid waste management facilities.

The receipt of this letter may please be acknowledged.

For and on behalf of  
Karnataka State Pollution Control Board

Sd/-  
Senior Environmental Officer.

**COPY TO:**

1. The Environmental Officer, KSPCB, Regional Office, Tumkur for information and necessary action.
2. Master copy (CFE-Cell).
3. Master copy (Dispatch).
4. Office copy.

*Received 3/2/14*  
Senior Environmental Officer.

Proposed Vasanthanasapura Industrial Area 1<sup>st</sup> stage  
 Village: Vasanthanasapura, Taluk: Tumkur Dist: Tumkur

ANNEXURE-I

126

Name of village	Survey No.	Extent in Acre Guntas
Kempanadoderi	91	9-06
	93/1	0-11
	Total	9-17
Nagenahalli	1/1	2-11
	1/2	1-38
	1/3	0-22
	1/4	0-21
	1/5	0-19
	1/6	0-30
	1/7	0-18
	1/8	1-09
	1/9	1-05
	1/10	0-24
	1/11	0-13
	1/12	0-15
	1/13	0-14
	1/14	0-15
	2/1	0-16
	2/2	14-13
	4/1	2-36
	4/2	3-24
	9/1	4-00
	9/2	3-33
9/3	3-33	
9/4	2-08	
10P	13-05	
12P	15-27	
12P	12-31	
13	3-16	
14/1	8-18	
14/2	4-04	
15/1	6-23	

	15/2	0-28
	15/3	0-34
	15/4	0-20
	15/5	0-30



126

	15/3AP	0-10
	16/5	0-11
	16/7	2-33
	17	16-39
	18	8-38
	19	6-21
	20	7-08
	21/1	11-28
	21/2	0-38
	21/3	1-05
	21/4	1-02
	21/5	1-00
	21/6	2-32
	21/7	0-36
	21/8	0-33
	21/9	1-07
	21/10	1-23
	22	4-21
	30/4A	0-22
	30/4B	0-23
	30/4C1	3-02
	30/4C2	1-01
	30/4D	2-19
	30/5	2-10
	31/1P	0-14
	42	9-00
	43	4-00
	44	4-00
	45	4-31
	46	2-01
	50	2-25
	Total	135 -21
Giriyannahalli	3/2	8-29
		8-29

SUMMARY:

Sl no.	Village	Extent in Acres Guntas
1	Kempanadodderi	9-17
2	Nagenahalli	628-35
3	Thimarajanahalli	135-21
4	Giriyannahalli	8-29
	Total	782-22

# Combined national Tote pools in offering

Sd/- Executive Engineer, Project (West) Division

**"Pay development charges, help to develop Bengaluru"**

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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

3944-2018 3) This office

4447 dtd: 03-03-2018

Notifications cited at Ref (1) to (3)

work of "Survey, Investigation,

Testing and Commissioning of

and 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

( Madlur ) LIS works's drawings

hence the Drawings of Guddada

endum for the above said work

Further details are remains

tender notification and its

made in the said Corrigendum,

1) will be published in the

ed in the news papers. Further

the office of the undersigned

re No. (08373) - 267071. and

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



## KARNATAKA INDUSTRIAL AREAS DEVELOPMENT BOARD

(A Government of Karnataka Undertaking)

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

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

e-Mail: cdoce@kladb.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, 2<sup>nd</sup> & 3<sup>rd</sup> Phase, Tumakuru District.

3. Gowribidanur, 1<sup>st</sup> & 2<sup>nd</sup> 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, 2<sup>nd</sup> & 3<sup>rd</sup> Phase, Ramangara District

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

#### B. Environmental Clearance from SEIAA

1) Malur Industrial Area, 4<sup>th</sup> Phase, Malur Taluk, Kolar District.

2) Narasapura Industrial Area, 1<sup>st</sup> Stage, Kolar District.

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

4) Bidadi Industrial Area, 2<sup>nd</sup> Phase, Ramanagara District.

5) Vemagal Industrial Area, Kolar District.

6) Vasanthanasapura Industrial Area, 1<sup>st</sup> Stage, Tumakuru Taluk & District.

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

8) Doddaballapura Industrial Area, 3<sup>rd</sup> Phase, Obdenahalli, Doddaballapura Taluk, Bangalore Rural District.

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

10) Nandur Kesaratagi Industrial Area, 2<sup>nd</sup> Phase, Kalaburagi Taluk & District.

Sd/- Chief Development Officer & Chief Engineer

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## ROBUST MATERIALS TECHNOLOGY PVT. LTD.

(Recognised by MoEF&CC, DSIR-Government of India & Notified by FSSAI)  
(Approved by Drug Control Department-GoK ; Certified by OHSAS-ISO 45001:2018)

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/2021/00301
Report date	: 12/03/2021
Ref.	: Test Request Form
Date of Sampling	: 05/03/2021 to 06/03/2021
Job Order No	: RE/2021/00301
Date of Receipt	: 07/03/2021
Analysis Start date	: 08/03/2021
Analysis Completed date	: 12/03/2021

**Sample Particulars:** Ambient Air Monitoring for 24 hours.

**Name of the Industrial Area:** Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

**Sample Location:** Near KIADB Office- Vasanthanarasapura Industrial Area, 1st Stage - Project Site.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM <sub>10</sub> , µg/m <sup>3</sup>	65.9	100	IS-5182 (P-23)
2	Particulate Matter PM <sub>2.5</sub> , µg/m <sup>3</sup>	24.0	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO <sub>2</sub> , µg/m <sup>3</sup>	22.6	80	IS-5182 (P-06)
4	Sulphur dioxide as SO <sub>2</sub> , µg/m <sup>3</sup>	12.3	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-----

  
12/3/21  
Verified by

  
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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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/2021/00303
Report date	: 12/03/2021
Ref.	: Test Request Form
Date of Sampling	: 05/03/2021 to 06/03/2021
Job Order No	: RE/2021/00303
Date of Receipt	: 07/03/2021
Analysis Start date	: 08/03/2021
Analysis Completed date	: 12/03/2021

**Sample Particulars:** Ambient Air Monitoring for 24 hours.

**Name of the Industrial Area:** Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).  
**Sample Location:** Near Giriyanahalli Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM <sub>10</sub> , µg/m <sup>3</sup>	60.5	100	IS-5182 (P-23)
2	Particulate Matter PM <sub>2.5</sub> , µg/m <sup>3</sup>	19.8	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO <sub>2</sub> , µg/m <sup>3</sup>	17.6	80	IS-5182 (P-06)
4	Sulphur dioxide as SO <sub>2</sub> , µg/m <sup>3</sup>	11.9	80	IS-5182 (P-02)

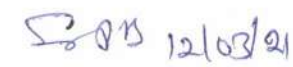
**INFERENCE:** The measured values for the above tested parameters are within as per the NAAQ Standards

#### 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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**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/2021/00305
Report date	: 12/03/2021
Ref.	: Test Request Form
Date of Sampling	: 05/03/2021 to 06/03/2021
Job Order No	: RE/2021/00305
Date of Receipt	: 07/03/2021
Analysis Start date	: 08/03/2021
Analysis Completed date	: 12/03/2021

**Sample Particulars:** Ambient Air Monitoring for 24 hours.

**Name of the Industrial Area:** Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

**Sample Location:** Near Chikkenahalli Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM <sub>10</sub> , µg/m <sup>3</sup>	58.9	100	IS-5182 (P-23)
2	Particulate Matter PM <sub>2.5</sub> , µg/m <sup>3</sup>	20.0	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO <sub>2</sub> , µg/m <sup>3</sup>	17.6	80	IS-5182 (P-06)
4	Sulphur dioxide as SO <sub>2</sub> , µg/m <sup>3</sup>	8.5	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-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/2021/00307
Report date	: 12/03/2021
Ref.	: Test Request Form
Date of Sampling	: 05/03/2021 to 06/03/2021
Job Order No	: RE/2021/00307
Date of Receipt	: 07/03/2021
Analysis Start date	: 08/03/2021
Analysis Completed date	: 12/03/2021

**Sample Particulars:** Ambient Air Monitoring for 24 hours.

**Name of the Industrial Area:** Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

**Sample Location:** Near Thimmarajahalli Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM <sub>10</sub> , µg/m <sup>3</sup>	59.1	100	IS-5182 (P-23)
2	Particulate Matter PM <sub>2.5</sub> , µg/m <sup>3</sup>	23.3	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO <sub>2</sub> , µg/m <sup>3</sup>	18.5	80	IS-5182 (P-06)
4	Sulphur dioxide as SO <sub>2</sub> , µg/m <sup>3</sup>	9.1	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	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,  
Race Course Road, Bengaluru,  
Karnataka 560 001.

Report No.	: RE/2021/00309
Report date	: 12/03/2021
Ref.	: Test Request Form
Date of Sampling	: 05/03/2021 to 06/03/2021
Job Order No	: RE/2021/00309
Date of Receipt	: 07/03/2021
Analysis Start date	: 08/03/2021
Analysis Completed date	: 12/03/2021

**Sample Particulars:** Ambient Air Monitoring for 24 hours.

**Name of the Industrial Area:** Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

**Sample Location:** Near Kurikempanahalli Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM <sub>10</sub> , µg/m <sup>3</sup>	63.1	100	IS-5182 (P-23)
2	Particulate Matter PM <sub>2.5</sub> , µg/m <sup>3</sup>	24.8	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO <sub>2</sub> , µg/m <sup>3</sup>	21.6	80	IS-5182 (P-06)
4	Sulphur dioxide as SO <sub>2</sub> , µg/m <sup>3</sup>	12.4	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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Karnataka 560 001.

Report No.	: RE/2021/00322
Report date	: 12/03/2021
Ref.	: Test Request Form
Date of Sampling	: 06/03/2021 to 07/03/2021
Job Order No	: RE/2021/00322
Date of Receipt	: 07/03/2021
Analysis Start date	: 08/03/2021
Analysis Completed date	: 12/03/2021

**Sample Particulars:** Ambient Air Monitoring for 24 hours.

**Name of the Industrial Area:** Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

**Sample Location:** Near Somasagara Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM <sub>10</sub> , µg/m <sup>3</sup>	58.6	100	IS-5182 (P-23)
2	Particulate Matter PM <sub>2.5</sub> , µg/m <sup>3</sup>	22.0	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO <sub>2</sub> , µg/m <sup>3</sup>	15.3	80	IS-5182 (P-06)
4	Sulphur dioxide as SO <sub>2</sub> , µg/m <sup>3</sup>	9.2	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



<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00324
	Report date	: 12/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 06/03/2021 to 07/03/2021
	Job Order No	: RE/2021/00324
	Date of Receipt	: 07/03/2021
	Analysis Start date	: 08/03/2021
<b>Sample Particulars:</b> Ambient Air Monitoring for 24 hours.	Analysis Completed date	: 12/03/2021
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Location:</b> Near Yeladadlu Village.		

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM <sub>10</sub> , µg/m <sup>3</sup>	60.2	100	IS-5182 (P-23)
2	Particulate Matter PM <sub>2.5</sub> , µg/m <sup>3</sup>	23.7	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO <sub>2</sub> , µg/m <sup>3</sup>	19.8	80	IS-5182 (P-06)
4	Sulphur dioxide as SO <sub>2</sub> , µg/m <sup>3</sup>	10.4	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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**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,  
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Report No.	: RE/2021/00326
Report date	: 12/03/2021
Ref.	: Test Request Form
Date of Sampling	: 06/03/2021 to 07/03/2021
Job Order No	: RE/2021/00326
Date of Receipt	: 07/03/2021
Analysis Start date	: 08/03/2021
Analysis Completed date	: 12/03/2021

**Sample Particulars:** Ambient Air Monitoring for 24 hours.

**Name of the Industrial Area:** Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

**Sample Location:** Near Nagenahalli Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM <sub>10</sub> , µg/m <sup>3</sup>	59.7	100	IS-5182 (P-23)
2	Particulate Matter PM <sub>2.5</sub> , µg/m <sup>3</sup>	23.5	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO <sub>2</sub> , µg/m <sup>3</sup>	20.4	80	IS-5182 (P-06)
4	Sulphur dioxide as SO <sub>2</sub> , µg/m <sup>3</sup>	11.2	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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**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



<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00302
	Report date	: 12/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 05/03/2021 to 06/03/2021
	Job Order No	: RE/2021/00302
	Date of Receipt	: 07/03/2021
	Analysis Start date	: 11/03/2021
	Analysis Completed date	: 12/03/2021
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A). <b>Sample Particulars:</b> Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00302	Near KIADB Office- Vasanthanarasapura Industrial Area, 1st Stage - Project Site	6:01 AM to 10:00 PM	46.5	73.2	58.3
		10:01 PM to 6:00 AM	39.1	57.2	47.3

**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

<b>INFERENCE</b>	<b>As per CPCB Standards,</b> <b>Report Status:</b> - The measured values for the above locations are within the standards.
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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/2021/00304
Report date	: 12/03/2021
Ref.	: Test Request Form
Date of Sampling	: 05/03/2021 to 06/03/2021
Job Order No	: RE/2021/00304
Date of Receipt	: 07/03/2021
Analysis Start date	: 11/03/2021
Analysis Completed date	: 12/03/2021

**Name of the Industrial Area:** Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 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/2021/00304	Near Giriyanahalli Village	6:01 AM to 10:00 PM	46.5	57.1	51.5
		10:01 PM to 6:00 AM	37.5	48.5	42.6

**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.

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

12/3/21

Verified by

12/03/21  
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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Nagarabhavi, Bengaluru - 560 072. Tel : 080 2318 6230

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

### TEST REPORT


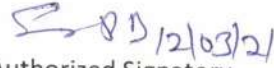


<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00306
	Report date	: 12/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 05/03/2021 to 06/03/2021
	Job Order No	: RE/2021/00306
	Date of Receipt	: 07/03/2021
	Analysis Start date	: 11/03/2021
	Analysis Completed date	: 12/03/2021
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A). <b>Sample Particulars:</b> Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00306	Near Chikkenahalli Village	6:01 AM to 10:00 PM	46.5	63.1	54.2
		10:01 PM to 6:00 AM	39.1	49.3	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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- 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

<b>INFERENCE</b>	<b>As per CPCB Standards,</b> <b>Report Status: -</b> The measured values for the above locations are within the standards.
-----END OF THE REPORT-----	
 12/3/21 Verified by	 12/03/21 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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### TEST REPORT



<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00308
	Report date	: 12/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 05/03/2021 to 06/03/2021
	Job Order No	: RE/2021/00308
	Date of Receipt	: 07/03/2021
	Analysis Start date	: 11/03/2021
	Analysis Completed date	: 12/03/2021
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> Noise Monitoring for 24 hours		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00294-H	Near Thimmarajahalli Village	6:01 AM to 10:00 PM	46.5	59.2	52.5
		10:01 PM to 6:00 AM	39.5	47.2	43.2

**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-----

12/3/21  
Verified by

12/03/21  
Authorized Signatory

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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/2021/00310
Report date	: 12/03/2021
Ref.	: Test Request Form
Date of Sampling	: 05/03/2021 to 06/03/2021
Job Order No	: RE/2021/00310
Date of Receipt	: 07/03/2021
Analysis Start date	: 11/03/2021
Analysis Completed date	: 12/03/2021

**Name of the Industrial Area:** Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 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/2021/00310	Near Kurikempanahalli Village	6:01 AM to 10:00 PM	48.5	58.2	53.1
		10:01 PM to 6:00 AM	43.6	51.2	47.3

**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.
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#### INFERENCE

As per CPCB Standards,

Report Status: - The measured values for the above locations are within the standards.

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

12/03/21  
Verified by

12/03/21  
Authorized Signatory

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### TEST REPORT


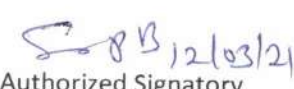


<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00323
	Report date	: 12/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 06/03/2021 to 07/03/2021
	Job Order No	: RE/2021/00323
	Date of Receipt	: 07/03/2021
	Analysis Start date	: 11/03/2021
	Analysis Completed date	: 12/03/2021
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00323	Near Somasagara Village	6:01 AM to 10:00 PM	46.9	58.5	52.4
		10:01 PM to 6:00 AM	42.2	49.5	42.4

**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.

<b>INFERENCE</b>	<b>As per CPCB Standards,</b> <b>Report Status:</b> - The measured values for the above locations are within the standards.
 12/3/21 Verified by	<p>-----END OF THE REPORT-----</p>  12/03/21 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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### TEST REPORT



<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00325
	Report date	: 12/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 06/03/2021 to 07/03/2021
	Job Order No	: RE/2021/00325
	Date of Receipt	: 07/03/2021
	Analysis Start date	: 11/03/2021
	Analysis Completed date	: 12/03/2021
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A). <b>Sample Particulars:</b> Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00325	Near Yeladadlu Village	6:01 AM to 10:00 PM	47.3	60.7	53.6
		10:01 PM to 6:00 AM	39.7	47.4	43.4

**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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<b>INFERENCE</b>	<b>As per CPCB Standards,</b> <b>Report Status:</b> - The measured values for the above locations are within the standards.
-----END OF THE REPORT-----	
 12/3/21 Verified by	 12/03/21 Authorized Signatory

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

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<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00327
	Report date	: 12/03/2021
	Ref.	: Test Request Form
	Date of Sampling	: 06/03/2021 to 07/03/2021
	Job Order No	: RE/2021/00325
	Date of Receipt	: 07/03/2021
	Analysis Start date	: 11/03/2021
Analysis Completed date	: 12/03/2021	
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka.(Ext-782.22 A).		
<b>Sample Particulars:</b> Noise Monitoring for 24 hours.		

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00327	Near Nagenahalli Village	6:01 AM to 10:00 PM	45.8	61.3	53.0
		10:01 PM to 6:00 AM	38.5	47.9	42.9

**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)

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<b>INFERENCE</b>	<b>As per CPCB Standards,</b> <b>Report Status:</b> - The measured values for the above locations are within the standards.
 12/3/21 Verified by	-----END OF THE REPORT-----  12/03/21 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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<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.  <b>Sample Qty: 2 Ltrs</b> <b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A). <b>Sample Particulars:</b> One sample of Borewell Water - Near Chikkenahalli Village.	Report No.	: RE/2021/00311
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00311
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
	Sampling Protocol	: E/WP/65

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
<b>Description:</b> 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	8.38	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	36.86	250	1000	IS 3025 (Part - 32): 1988 Reaff.2019
6	Total hardness as CaCO <sub>3</sub> , mg/L	233.0	200	600	IS 3025 (Part - 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	54.4	75	200	IS 3025 (Part - 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	23.5	30	100	IS 3025 (Part - 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	332.0	500	2000	IS 3025 (Part - 16): 1984 Reaff.2017
10	Sulphate as SO <sub>4</sub> , mg/L	13.4	200	400	IS 3025 (Part - 24): 1986 Reaff.2019
11	Nitrate as NO <sub>3</sub> , mg/L	4.2	45.0	No relaxation	APHA 23 <sup>rd</sup> Edition
12	Fluoride as F, mg/L	0.2	1.0	1.5	APHA 23 <sup>rd</sup> Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 <sup>rd</sup> Edition
14	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part - 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	BDL	0.05	1.5	APHA 23 <sup>rd</sup> Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part - 49): 1994 Reaff 2019

*Laxshmi Rai S*  
18/3/21  
Verified by

*E-015* 18/03/21  
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### TEST REPORT

<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00311
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00311
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Chikkenahalli Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	BDL	0.05	No relaxation	APHA 23 <sup>rd</sup> Edition
18	Dissolved oxygen, mg/L	3.1	-	-	APHA 23 <sup>rd</sup> Edition

**Note:** BDL for Cr: 0.05, Fe: 0.05, Pb: 0.01, Zn: 0.05, SO<sub>4</sub>: 5.0, NO<sub>3</sub>: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 P*  
Verified by  
18/3/21

*S. P. B.* 18/03/21  
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Email : info@robustmaterials.com Website : www.robustmaterials.com

### TEST REPORT



<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00312
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00312
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Giriyanahalli Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
<b>Description:</b> 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	7.84	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	32.3	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO <sub>3</sub> , mg/L	271.8	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	63.7	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	27.3	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	436.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO <sub>4</sub> , mg/L	31.6	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO <sub>3</sub> , mg/L	5.1	45.0	No relaxation	APHA 23 <sup>rd</sup> Edition
12	Fluoride as F, mg/L	0.3	1.0	1.5	APHA 23 <sup>rd</sup> Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 <sup>rd</sup> Edition
14	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	BDL	0.05	1.5	APHA 23 <sup>rd</sup> Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

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### TEST REPORT

<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00312
	Report date	: 18/03/2021
	Reference	: Test Request Form
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	Job Order No	: RE/2021/00312
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Giriyanahalli Village.		

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

**Note:** BDL for Cr: 0.05, Fe: 0.05, Pb: 0.01, Zn: 0.05, SO<sub>4</sub>: 5.0, NO<sub>3</sub>: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



<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00313
	Report date	: 18/03/2021
	Reference	: Test Request Form
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	Job Order No	: RE/2021/00313
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	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Thimmarajanahalli Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
<b>Description:</b> 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	8.43	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	27.65	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO <sub>3</sub> , mg/L	201.9	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	32.6	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	29.2	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	340.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO <sub>4</sub> , mg/L	11.6	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO <sub>3</sub> , mg/L	5.1	45.0	No relaxation	APHA 23 <sup>rd</sup> Edition
12	Fluoride as F, mg/L	0.2	1.0	1.5	APHA 23 <sup>rd</sup> Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 <sup>rd</sup> Edition
14	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	BDL	0.05	1.5	APHA 23 <sup>rd</sup> Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

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### TEST REPORT

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	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00313
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	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Thimmarajahalli Village.		

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

**Note:** BDL for Cr: 0.05, Fe: 0.05, Pb: 0.01, Zn: 0.05, SO<sub>4</sub>: 5.0, NO<sub>3</sub>:5.0, F:0.1.

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

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<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00314
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00314
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Linginahalli Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
<b>Description:</b> 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	8.25	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	41.4	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO <sub>3</sub> , mg/L	295.1	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	66.8	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	31.1	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	484.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO <sub>4</sub> , mg/L	26.5	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO <sub>3</sub> , mg/L	5.0	45.0	No relaxation	APHA 23 <sup>rd</sup> Edition
12	Fluoride as F, mg/L	0.3	1.0	1.5	APHA 23 <sup>rd</sup> Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 <sup>rd</sup> Edition
14	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	BDL	0.05	1.5	APHA 23 <sup>rd</sup> Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

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	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Lingenhalli Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	BDL	0.05	No relaxation	APHA 23 <sup>rd</sup> Edition
18	Dissolved oxygen, mg/L	3.1	-	-	APHA 23 <sup>rd</sup> Edition

**Note:** BDL for Cr: 0.05, Fe: 0.05, Pb: 0.01, Zn: 0.05, SO<sub>4</sub>: 5.0, NO<sub>3</sub>: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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	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00315
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Devarahalli Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
<b>Description:</b> 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	7.79	6.5 – 8.5	No relaxation	IS 3025 (Part – 11): 1983 Reaff.2017
4	Turbidity, NTU	0.5	1	5	IS 3025 (Part – 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	46.08	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO <sub>3</sub> , mg/L	326.2	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	77.7	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	32.1	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	560.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO <sub>4</sub> , mg/L	33.2	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO <sub>3</sub> , mg/L	5.2	45.0	No relaxation	APHA 23 <sup>rd</sup> Edition
12	Fluoride as F, mg/L	0.2	1.0	1.5	APHA 23 <sup>rd</sup> Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 <sup>rd</sup> Edition
14	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	BDL	0.05	1.5	APHA 23 <sup>rd</sup> Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

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<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Devarahalli Village.		

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

**Note:** BDL for Cr: 0.05, Fe: 0.05, Pb: 0.01, Zn: 0.05, SO<sub>4</sub>: 5.0, NO<sub>3</sub>:5.0, F: 0.1.

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

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

*Verified by*  
18/3/21

*Authorized by*  
18/03/21

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

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

### TEST REPORT



<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00316
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00316
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Nagenahalli Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
<b>Description:</b> 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	7.64	6.5 – 8.5	No relaxation	IS 3025 (Part – 11): 1983 Reaff.2017
4	Turbidity, NTU	0.1	1	5	IS 3025 (Part – 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	27.6	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO <sub>3</sub> , mg/L	395.1	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	73.0	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	27.6	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	582.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO <sub>4</sub> , mg/L	28.02	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO <sub>3</sub> , mg/L	5.2	45.0	No relaxation	APHA 23 <sup>rd</sup> Edition
12	Fluoride as F, mg/L	0.3	1.0	1.5	APHA 23 <sup>rd</sup> Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 <sup>rd</sup> Edition
14	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	BDL	0.05	1.5	APHA 23 <sup>rd</sup> Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

*Lakshmi Bai's*  
23/3/21  
Verified by

*S. B. S. 18/03/21*  
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### TEST REPORT

<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00316
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00316
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	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Nagenahalli Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	BDL	0.05	No relaxation	APHA 23 <sup>rd</sup> Edition
18	Dissolved oxygen, mg/L	3.1	-	-	APHA 23 <sup>rd</sup> Edition

**Note:** BDL for Cr: 0.05, Fe: 0.05, Pb: 0.01, Zn: 0.05, SO<sub>4</sub>: 5.0, NO<sub>3</sub>:5.0, F:0.1.

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

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

*Kaushik*  
18/3/21  
Verified by

*P B*  
18/03/21  
Authorized by

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### TEST REPORT



<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00317
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00317
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Doddanapalya Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
<b>Description:</b> 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	8.08	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	18.4	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO <sub>3</sub> , mg/L	209.7	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	51.3	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	19.8	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	324.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO <sub>4</sub> , mg/L	15.57	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO <sub>3</sub> , mg/L	4.8	45.0	No relaxation	APHA 23 <sup>rd</sup> Edition
12	Fluoride as F, mg/L	0.3	1.0	1.5	APHA 23 <sup>rd</sup> Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 <sup>rd</sup> Edition
14	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	BDL	0.05	1.5	APHA 23 <sup>rd</sup> Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

*Lakshmi Bai's*  
18/3/21  
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*S. S. S. S.*  
18/03/21  
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### TEST REPORT

<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00317
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00317
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021	
Sample Qty: 2 Ltrs	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Doddanapalya Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
17	Chromium as Cr, mg/L	BDL	0.05	No relaxation	APHA 23 <sup>rd</sup> Edition
18	Dissolved oxygen, mg/L	3.1	-	-	APHA 23 <sup>rd</sup> Edition

**Note:** BDL for Cr: 0.05, Fe: 0.05, Pb: 0.01, Zn: 0.05, SO<sub>4</sub>: 5.0, NO<sub>3</sub>:5.0, F: 0.1.

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

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

*Verified by*  
18/3/21

*Authorized by*  
18/03/21

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### TEST REPORT



<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00318
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00318
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 2 Ltrs</b>	Sampling Protocol	: E/WP/65
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One sample of Borewell Water - Near Yeladadlu Village.		

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
<b>Description:</b> 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	7.99	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	32.2	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO <sub>3</sub> , mg/L	333.9	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	77.7	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	33.9	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	566.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO <sub>4</sub> , mg/L	22.02	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO <sub>3</sub> , mg/L	5.1	45.0	No relaxation	APHA 23 <sup>rd</sup> Edition
12	Fluoride as F, mg/L	0.3	1.0	1.5	APHA 23 <sup>rd</sup> Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 <sup>rd</sup> Edition
14	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47): 1994 Reaff 2019
15	Copper as Cu, mg/L	BDL	0.05	1.5	APHA 23 <sup>rd</sup> Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

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18/3/21

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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/2021/00318
Report date	: 18/03/2021
Reference	: Test Request Form
Sample receipt date	: 07/03/2021
Job Order No	: RE/2021/00318
Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

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

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

Note: BDL for Cr: 0.05, Fe: 0.05, Pb: 0.01, Zn: 0.05, SO<sub>4</sub>: 5.0, NO<sub>3</sub>: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*  
18/3/21  
Verified by

*S. S. D.* 18/03/21  
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,  
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Karnataka 560 001.

Report No.	: RE/2021/00319
Report date	: 18/03/2021
Reference	: Test Request Form
Sample receipt date	: 07/03/2021
Job Order No	: RE/2021/00319
Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Giriyanahalli Village.

Sl. No.	Test	Result	Protocol
<b>Description:</b> Brown Colored Soil.			
1	pH (20% Suspension)	7.38	Practical Manual for Hands on training GKVK Bengaluru
2	Conductivity, $\mu$ mhos/cm	91.0	Practical Manual for Hands on training GKVK Bengaluru
3	Chloride as Cl, mg/Kg	174.6	Practical Manual for Hands on training GKVK Bengaluru
4	Moisture, %	13.71	Practical Manual for Hands on training GKVK Bengaluru
5	Organic Matter, %	0.85	Practical Manual for Hands on training GKVK Bengaluru
6	Calcium as Ca, mg/Kg	241.4	Practical Manual for Hands on training GKVK Bengaluru
7	Magnesium Mg, mg/Kg	88.8	Practical Manual for Hands on training GKVK Bengaluru

Lakshmi P S  
18/3/21  
Verified by

S. S. S. S.  
18/03/21  
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### TEST REPORT

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Report No.	: RE/2021/00319
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Reference	: Test Request Form
Sample receipt date	: 07/03/2021
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Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Giriyanahalli Village.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKVK Bengaluru
9	Sulphur as S, mg/Kg	6.53	Practical Manual for Hands on training GKVK Bengaluru
10	Nitrogen as N, %	0.007	Practical Manual for Hands on training GKVK Bengaluru
11	Phosphorous as P, mg/Kg	1.87	Practical Manual for Hands on training GKVK Bengaluru
12	Potassium as K, mg/Kg	113.1	Practical Manual for Hands on training GKVK Bengaluru
13	Copper as Cu, mg/Kg	9.35	Practical Manual for Hands on training GKVK Bengaluru
14	Chromium as Cr, mg/Kg	21.2	Practical Manual for Hands on training GKVK Bengaluru
15	Zinc as Zn, mg/Kg	20.4	Practical Manual for Hands on training GKVK Bengaluru
16	Lead as Pb, mg/Kg	6.72	Practical Manual for Hands on training GKVK Bengaluru
17	Nickel as Ni, mg/Kg	15.51	Practical Manual for Hands on training GKVK Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKVK Bengaluru

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

Lakshmi Sai S  
18/3/21  
Verified by

S. S. B. 18/3/21  
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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/2021/00320
Report date	: 18/03/2021
Reference	: Test Request Form
Sample receipt date	: 07/03/2021
Job Order No	: RE/2021/00320
Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Kurikempanahalli Village.

Sl. No.	Test	Result	Protocol
<b>Description: Brown Colored Soil.</b>			
1	pH (20% Suspension)	7.17	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, $\mu$ mhos/cm	171.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	157.4	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	0.26	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	3.41	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	352.7	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	166.8	Practical Manual for Hands on training GKV Bengaluru

*Lakshmi Pooja*  
18/3/21  
Verified by

*S. B. 18/03/21*  
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No.49, 4th & 5th Floor, East Wing, Khanija Bhavan,  
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Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Kurikempanahalli Village.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKVK Bengaluru
9	Sulphur as S, mg/Kg	9.8	Practical Manual for Hands on training GKVK Bengaluru
10	Nitrogen as N, %	0.01	Practical Manual for Hands on training GKVK Bengaluru
11	Phosphorous as P, mg/Kg	1.52	Practical Manual for Hands on training GKVK Bengaluru
12	Potassium as K, mg/Kg	28.25	Practical Manual for Hands on training GKVK Bengaluru
13	Copper as Cu, mg/Kg	10.97	Practical Manual for Hands on training GKVK Bengaluru
14	Chromium as Cr, mg/Kg	3.10	Practical Manual for Hands on training GKVK Bengaluru
15	Zinc as Zn, mg/Kg	9.31	Practical Manual for Hands on training GKVK Bengaluru
16	Lead as Pb, mg/Kg	5.60	Practical Manual for Hands on training GKVK Bengaluru
17	Nickel as Ni, mg/Kg	16.27	Practical Manual for Hands on training GKVK Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKVK Bengaluru

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

Lakshmi Bai S  
12/3/21  
Verified by

S-015 18/03/21  
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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/2021/00321
Report date	: 18/03/2021
Reference	: Test Request Form
Sample receipt date	: 07/03/2021
Job Order No	: RE/2021/00321
Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Thimmarajanahalli Village.

Sl. No.	Test	Result	Protocol
<b>Description:</b> Brown Colored Soil.			
1	pH (20% Suspension)	8.34	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, $\mu$ hos/cm	217.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	170.4	Practical Manual for Hands on training GKV Bengaluru
4	Moisture,%	6.74	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	2.57	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	613.4	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	346.8	Practical Manual for Hands on training GKV Bengaluru

Lakshmi  
6/13/21  
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18/03/21  
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### TEST REPORT

<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00321
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00321
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
<b>Sample Qty: 1kg</b>	Sampling Protocol	: E/WP/77
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).		
<b>Sample Particulars:</b> One Soil Sample- Near Thimmarajanahalli Village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKVK Bengaluru
9	Sulphur as S, mg/Kg	4.3	Practical Manual for Hands on training GKVK Bengaluru
10	Nitrogen as N, %	0.008	Practical Manual for Hands on training GKVK Bengaluru
11	Phosphorous as P, mg/Kg	5.36	Practical Manual for Hands on training GKVK Bengaluru
12	Potassium as K, mg/Kg	297.4	Practical Manual for Hands on training GKVK Bengaluru
13	Copper as Cu, mg/Kg	7.8	Practical Manual for Hands on training GKVK Bengaluru
14	Chromium as Cr, mg/Kg	24.6	Practical Manual for Hands on training GKVK Bengaluru
15	Zinc as Zn, mg/Kg	10.4	Practical Manual for Hands on training GKVK Bengaluru
16	Lead as Pb, mg/Kg	7.85	Practical Manual for Hands on training GKVK Bengaluru
17	Nickel as Ni, mg/Kg	40.2	Practical Manual for Hands on training GKVK Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKVK Bengaluru

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

*Lakshmi*  
8/3/21  
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*S. B.* 18/03/21  
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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/2021/00328
Report date	: 18/03/2021
Reference	: Test Request Form
Sample receipt date	: 07/03/2021
Job Order No	: RE/2021/00328
Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Chikkenahalli Village.

Sl. No.	Test	Result	Protocol
<b>Description:</b> Brown Colored Soil.			
1	pH (20% Suspension)	8.01	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, $\mu$ mhos/cm	187.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	221.59	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	1.93	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	0.76	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	486.0	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	270.0	Practical Manual for Hands on training GKV Bengaluru

*Louise Bai's*  
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Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Chikkenahalli Village.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKVK Bengaluru
9	Sulphur as S, mg/Kg	4.54	Practical Manual for Hands on training GKVK Bengaluru
10	Nitrogen as N, %	0.004	Practical Manual for Hands on training GKVK Bengaluru
11	Phosphorous as P, mg/Kg	3.86	Practical Manual for Hands on training GKVK Bengaluru
12	Potassium as K, mg/Kg	113.09	Practical Manual for Hands on training GKVK Bengaluru
13	Copper as Cu, mg/Kg	22.26	Practical Manual for Hands on training GKVK Bengaluru
14	Chromium as Cr, mg/Kg	7.45	Practical Manual for Hands on training GKVK Bengaluru
15	Zinc as Zn, mg/Kg	2.43	Practical Manual for Hands on training GKVK Bengaluru
16	Lead as Pb, mg/Kg	7.02	Practical Manual for Hands on training GKVK Bengaluru
17	Nickel as Ni, mg/Kg	6.39	Practical Manual for Hands on training GKVK Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKVK Bengaluru

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

*Lakshmi Bai's*  
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*S. B. 18/03/21*  
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### TEST REPORT



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Report date	: 18/03/2021
Reference	: Test Request Form
Sample receipt date	: 07/03/2021
Job Order No	: RE/2021/00329
Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Yeladadlu Village.

Sl. No.	Test	Result	Protocol
<b>Description:</b> Brown Colored Soil.			
1	pH (20% Suspension)	7.16	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, $\mu$ mhos/cm	82.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	150.9	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	14.50	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	2.35	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	616.5	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	268.8	Practical Manual for Hands on training GKV Bengaluru

*Lakshmi P. S.*  
18/3/21  
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*S. B. S.*  
18/03/21  
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Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Yeladadlu Village.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKVK Bengaluru
9	Sulphur as S, mg/Kg	5.01	Practical Manual for Hands on training GKVK Bengaluru
10	Nitrogen as N, %	0.006	Practical Manual for Hands on training GKVK Bengaluru
11	Phosphorous as P, mg/Kg	2.66	Practical Manual for Hands on training GKVK Bengaluru
12	Potassium as K, mg/Kg	75.8	Practical Manual for Hands on training GKVK Bengaluru
13	Copper as Cu, mg/Kg	6.29	Practical Manual for Hands on training GKVK Bengaluru
14	Chromium as Cr, mg/Kg	21.6	Practical Manual for Hands on training GKVK Bengaluru
15	Zinc as Zn, mg/Kg	3.4	Practical Manual for Hands on training GKVK Bengaluru
16	Lead as Pb, mg/Kg	5.9	Practical Manual for Hands on training GKVK Bengaluru
17	Nickel as Ni, mg/Kg	11.3	Practical Manual for Hands on training GKVK Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKVK Bengaluru

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

*Lakshmi Devi*  
18/3/21  
Verified by

*S-05 18/03/21*  
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### TEST REPORT



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

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Karnataka 560 001.

Report No.	: RE/2021/00330
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Reference	: Test Request Form
Sample receipt date	: 07/03/2021
Job Order No	: RE/2021/00330
Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Doddanapalya Village.

Sl. No.	Test	Result	Protocol
<b>Description:</b> Brown Colored Soil.			
1	pH (20% Suspension)	6.88	Practical Manual for Hands on training GKVK Bengaluru
2	Conductivity, $\mu$ hos/cm	52.0	Practical Manual for Hands on training GKVK Bengaluru
3	Chloride as Cl, mg/Kg	149.4	Practical Manual for Hands on training GKVK Bengaluru
4	Moisture, %	2.62	Practical Manual for Hands on training GKVK Bengaluru
5	Organic Matter, %	3.73	Practical Manual for Hands on training GKVK Bengaluru
6	Calcium as Ca, mg/Kg	335.9	Practical Manual for Hands on training GKVK Bengaluru
7	Magnesium Mg, mg/Kg	138.0	Practical Manual for Hands on training GKVK Bengaluru

Lakshmi Bai  
18/03/21  
Verified by

18/03/21  
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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/2021/00330
Report date	: 18/03/2021
Reference	: Test Request Form
Sample receipt date	: 07/03/2021
Job Order No	: RE/2021/00330
Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Doddanapalya Village.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKVK Bengaluru
9	Sulphur as S, mg/Kg	4.85	Practical Manual for Hands on training GKVK Bengaluru
10	Nitrogen as N, %	0.008	Practical Manual for Hands on training GKVK Bengaluru
11	Phosphorous as P, mg/Kg	1.49	Practical Manual for Hands on training GKVK Bengaluru
12	Potassium as K, mg/Kg	96.05	Practical Manual for Hands on training GKVK Bengaluru
13	Copper as Cu, mg/Kg	4.42	Practical Manual for Hands on training GKVK Bengaluru
14	Chromium as Cr, mg/Kg	30.24	Practical Manual for Hands on training GKVK Bengaluru
15	Zinc as Zn, mg/Kg	7.06	Practical Manual for Hands on training GKVK Bengaluru
16	Lead as Pb, mg/Kg	4.59	Practical Manual for Hands on training GKVK Bengaluru
17	Nickel as Ni, mg/Kg	15.57	Practical Manual for Hands on training GKVK Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKVK Bengaluru

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

*Laxshu Sai S*  
18/3/21  
Verified by

*S. S. S. S.*  
18/03/21  
Authorized by

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

### TEST REPORT



<b>M/s. Karnataka Industrial Areas Development Board (KIADB).</b> No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00331
	Report date	: 18/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 07/03/2021
	Job Order No	: RE/2021/00331
	Date of Sampling	: 06/03/2021
	Analysis start date	: 08/03/2021
	Analysis completion date	: 18/03/2021
Sample Qty: 1kg	Sampling Protocol	: E/WP/77
<b>Name of the Industrial Area:</b> Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A). <b>Sample Particulars:</b> One Soil Sample- Near Somasagara Village.		

Sl. No.	Test	Result	Protocol
<b>Description:</b> Brown Colored Soil.			
1	pH (20% Suspension)	7.02	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, $\mu$ hos/cm	88.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	179.4	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	0.03	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	1.33	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	494.05	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	242.4	Practical Manual for Hands on training GKV Bengaluru

*Jeckshin Pais*  
18/3/21  
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*S. S. B. 18/03/21*  
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No.49, 4th & 5th Floor, East Wing, Khanija Bhavan,  
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Report No.	: RE/2021/00331
Report date	: 18/03/2021
Reference	: Test Request Form
Sample receipt date	: 07/03/2021
Job Order No	: RE/2021/00331
Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Somasagara Village.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	4.54	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.01	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	9.75	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	74.19	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	24.03	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	44.65	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	4.23	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	3.46	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	43.29	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-----

*Janakshya Rai*  
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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/2021/00332
Report date	: 18/03/2021
Reference	: Test Request Form
Sample receipt date	: 07/03/2021
Job Order No	: RE/2021/00332
Date of Sampling	: 06/03/2021
Analysis start date	: 08/03/2021
Analysis completion date	: 18/03/2021
Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Nagenahalli Village.

Sl. No.	Test	Result	Protocol
<b>Description: Brown Colored Soil.</b>			
1	pH (20% Suspension)	7.03	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, $\mu$ mhos/cm	122.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	155.8	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	2.51	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	2.28	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	543.4	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	202.8	Practical Manual for Hands on training GKV Bengaluru

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Sampling Protocol	: E/WP/77

Sample Qty: 1kg

Name of the Industrial Area: Vasanthanarasapura Industrial Area, 1st Stage, Tumkur Taluk & District, Karnataka. (Ext-782.22 A).

Sample Particulars: One Soil Sample- Near Nagenahalli Village.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKVK Bengaluru
9	Sulphur as S, mg/Kg	7.01	Practical Manual for Hands on training GKVK Bengaluru
10	Nitrogen as N, %	0.005	Practical Manual for Hands on training GKVK Bengaluru
11	Phosphorous as P, mg/Kg	1.49	Practical Manual for Hands on training GKVK Bengaluru
12	Potassium as K, mg/Kg	26.9	Practical Manual for Hands on training GKVK Bengaluru
13	Copper as Cu, mg/Kg	2.62	Practical Manual for Hands on training GKVK Bengaluru
14	Chromium as Cr, mg/Kg	36.4	Practical Manual for Hands on training GKVK Bengaluru
15	Zinc as Zn, mg/Kg	2.92	Practical Manual for Hands on training GKVK Bengaluru
16	Lead as Pb, mg/Kg	3.94	Practical Manual for Hands on training GKVK Bengaluru
17	Nickel as Ni, mg/Kg	3.40	Practical Manual for Hands on training GKVK Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKVK Bengaluru

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

*Lakshmi Pais*  
18/3/21  
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