

KARNATAKA INDUSTRIAL AREAS DEVELOPMENT BOARD

(A Government of Karnataka Undertaking)

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

Date: 13/08/2021

To,

The Ministry of Environment, Forest & Climate Change (MoEF&CC)

Regional Office (Southern Zone), Kendriya Sadan,

4th floor, F-Wing, 17th main road, II block,

Koramangala, Bengaluru- 560 034.

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 Gowribidanur, 1st & 2nd Phase Industrial Area, KIADB at Chikkaballapur District to an extent of 724.12 Acres.

Ref.: 1. ToR issued by MoEF&CC on 06th June 2014.
2. Environmental Public Hearing held on 09th January 2014.
3. Environmental Clearance reference no.: 21-65/2012-I.A.III dated 20th July 2015.
4. General Condition imposed in the Environmental Clearance for submission of Half yearly Compliance @ Condition No. 3.

With reference to above subject, it is to be informed that MoEF&CC has issued Environmental Clearance for Establishment of Gowribidanur, 1st & 2nd Phase Industrial Area, KIADB, at Chikkaballapur District to an extent of 724.12 Acres, after finalizing the ToR issued by MoEF&CC on 06th June 2014 and after conducting the public hearing on 09th January 2014.

In the said Environmental Clearance at the General Condition No. 3, it is stipulated that KIADB has to submit half yearly compliance report to all the conditions stipulated in the EC issued on 20th July 2015.

Hence, the detailed point wise compliance report to all the conditions stipulated in the Environmental Clearance issued to Gowribidanur, 1st & 2nd Phase Industrial Area is being submitted to MoEF&CC 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 Gowribidanur Industrial Area, Phase I & II at Gowribidanur in Chikkaballapur District.

For

KARNATAKA INDUSTRIAL AREAS DEVELOPMENT BOARD (KIADB)

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

Submission to

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

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

Prepared by

ROBUST MATERIALS TECHNOLOGY PRIVATE LIMITED

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

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

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1.0. PROJECT DETAILS:

- 1) Name of the Project:** Development of Gowribidanur Industrial Area, Phase I & II at Gowribidanur in Chikkaballapur District.
- 2) Environmental Clearance reference no.:** 21-65/2012-I.A.III dated 20th July 2015.
- 3) Total Plot Area:** 742.12 Acres (293.17 Ha).
- 4) ToR issued:** Issued by MoEF&CC on 06th June 2014.
- 5) Public Hearing:** Public hearing held on 09th January 2014.
- 6) Category of Industries:** Orange and Green category.
- 7) Total Water requirement for the Industrial area:** 19.83 MLD (Freshwater: 8.82 MLD, Treated water: 11.01 MLD) will be met by BWSSB.
- 8) Total Wastewater generation:** 10 MLD.
- 9) Total Power requirement:** 55.5 MW will be sourced from KPTCL.
- 10) Project Cost:** 220 crores.
- 11) Schedule & Category:** 7 (C) & A category
- 12) Address of the Correspondence:**

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

2.0. LOCATION MAP:

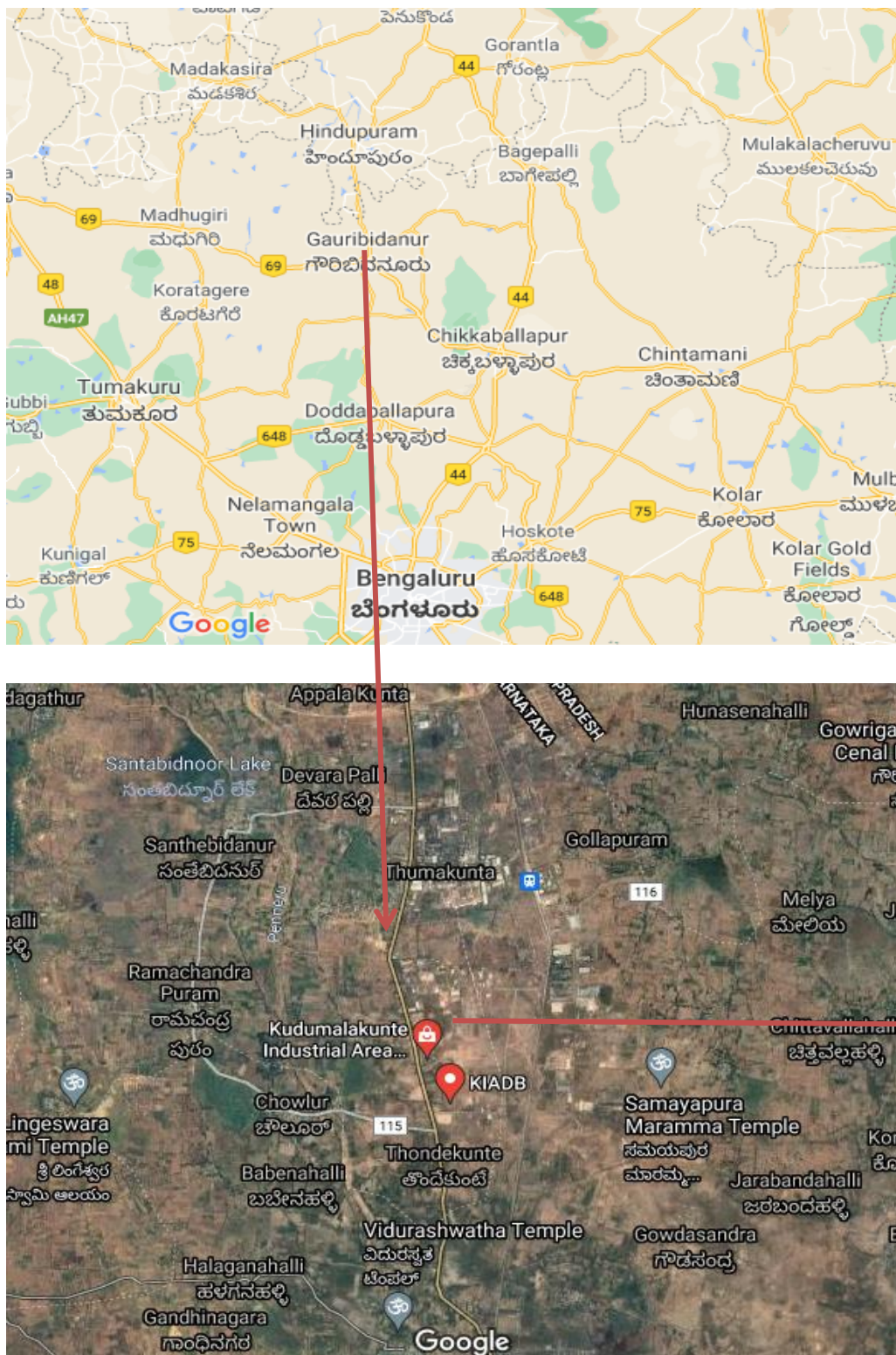


Fig.1: Map showing Gowribidanur Industrial Area (Phase I & II).

3.0. Half Yearly Environmental Compliance Report for all the Conditions Stipulated in the Environmental Clearance issued with respect to Establishment of Gowribidanur, 1st & 2nd Phase Industrial Area, Chikkaballapur District. (Ext-724.12 Acres)

Sl. No.	CONDITIONS STIPULATED IN THE EC	COMPLIANCE STATUS
A	SPECIFIC CONDITIONS	
I	Construction Phase	
1	"Consent for Establishment" shall be obtained from Karnataka State Pollution Control Board under Air(Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	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 02 nd August 2017. Copy has been submitted to MoEF&CC, Regional Office, Bangalore.
2	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly monitoring reports.	Noted. Individual industries will be informed to maintain the log book for recording water consumption and wastewater generation by respective industries, once the industries start operation in the proposed area.
3	Special Purpose Vehicles shall be established for implementation, monitoring and compliance of the environmental safeguards.	Noted.
4	All the recommendation of the EMP shall be complied with in letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to RO, MoEF&CC along with half yearly compliance report.	Noted and all the recommendations made in the Environmental Management Plan will be adhered to and applicable mitigation measures are adapted wherever required and mitigation plans so adapted shall be included in the half yearly Compliance report and shall be submitted to the Regional Office of MoEF&CC, Bangalore.
5	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	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.

6	Soil and ground water samples should be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Noted. All necessary steps will be taken to ensure that there is no contamination of soil and ground water during construction activities. Once the industries are made operational Red Category industries will be directed to carryout regular monitoring of Environmental attributes to observe the changes if any.
7	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate water courses 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 and disposed carefully, to prevent the contamination of the ground water.
8	Any hazardous waste generated during development/ construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Karnataka State Pollution Control Board.	Agreed. Necessary approvals from the competent authority will be obtained during the construction phase for the safe disposal of hazardous waste generated as per the rules and regulations applicable.
9	The diesel generator sets to be used during the construction phase should be of low sulphur diesel type and should conform to Environment (Protection) rules prescribed for air and noise emission standards.	Noted and Complied. The fuel used in the DG sets used during construction phase will have low sulphur content and hence the air and noise emissions were within the prescribed norms, so that there was no disturbance created due to use of DG sets. DG sets with acoustic enclosures will be used to comply with the norms.
10	The diesel required for operating DG sets shall be stored underground tanks and if required clearance from Chief Controller of Explosives shall be taken.	Complied- Necessary actions were 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 site will be advised to take necessary steps and they will be advised to obtain clearances from competent authority for the safe storage of diesel.

11	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.	Complied- hired Vehicles hired will be operated in good condition and emission documents will be maintained by the vehicle owner which conforms to the prescribed standards and the workers were 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.
12	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 the construction phase. Adequate measures to reduce ambient air and noise pollution during construction phase, so as to conform to the stipulated standards by CPCB/ SPCB.	Complied- Competent persons from KIADB & Construction workers available at the Project site were 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 norms.
13	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003.	Noted and complied. 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.
14	Ready mixed concrete must be used in site development and building construction.	Noted.
15	Storm water control and its reuse as per CGWB and BIS standard for various applications.	Noted.
16	Water demand during development/construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Noted.
17	Permission to draw ground water, if any, shall be obtained from the competent Authority prior to construction/operation of the project.	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..

18	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.
19	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	Noted and complied. During the operation phase individual industries will be informed to install latest technology To reduce the water consumption & wastewater generation, for efficient and limited use of water wherever possible. Industries will also be directed to conserve the water resource by adapting the same
20	Use of glass facia may be reduced by up to 40% to reduce electricity consumption and load on air conditioning. If necessary use high quality low E value glass.	Noted and adapted wherever applicable. Industries will also be advised to do the same.
21	Roof should meet prescriptive requirement as per Energy Conservation building code, by using appropriate thermal insulation material to fulfil requirement.	Duly noted and will be adapted wherever possible as per ECBC, 2007 and its amendments.
22	Opaque wall should meet perspective requirement as per Energy Conservation Building code, which is proposed to be mandatory for all air conditioned spaces while it is aspirational to non-air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	Duly noted and will be adapted wherever possible.
23	The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire-fighting equipment's, etc. as per National Building Code including protection measures from lightening etc.	Noted and the same will be informed to the industries before allotment of the plots.
24	Regular supervision of the above and other measures for monitoring should be in place all through the development/ construction phase, so as to avoid disturbance to the surroundings.	Complied. Regular supervision was done to ensure that there was no disturbance to the surroundings during the construction phase.
25	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	Noted. No such actions will be taken without the prior approval.

26	The responses/commitments made to the issues raised during public hearing shall be complied with in letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.	Noted. The suggestions/observations and concerns made during the public hearing will be duly considered and all relevant measures are being taken to improve the socio-economic conditions of the project and surrounding area.
27	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	Noted and all the recommendations made in the Environmental Management Plan and applicable mitigation measures are adapted wherever applicable.
28	Corporate Social Responsibility:	
	a) The Company shall have a well laid down Environment Policy approved by the board of Directors.	Noted. Individual Industrial units in the project area will be informed the same. All norms, standards and policies laid down by the competent authority will be strictly followed by the industrial units.
	b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/ violation of the environmental or forest norms/ conditions.	Noted. Industrial units in the project area will be informed the same. Standard Operating Procedures will be laid down to keep the track, if there is any kind of deviations, non-compliances.
	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	Noted. Industrial units in the project area have been informed the same. Hierarchical system will be followed to all the concerned authorities when required.
	d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.	Noted. Individual Industrial units at the time of operation in the project area will be informed to have well laid down system of reporting of non-compliances/ violations of environmental norms.

II	Operation Phase	
1	<p>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.</p>	<p>Noted. ETP and STP of required capacity will be provided in the proposed industrial area. Required land area has already been allotted for establishment of ETP and STP at the site. At present as there are limited number of industries which are generating waste water. Once industrial area is completely occupied by all the industries and there is a sufficient load, the treatment plants will be installed. The industries transporting wastewater to CETP is also less as individual industries have agreed to install in-house STP/ ETP to treat the wastewater generated within the industry. The industries are also advised to adapt Zero Liquid discharge technology wherever possible/ applicable for efficient treatment of wastewater, so that the treated water conform to the norms and standards prescribed by KSPCB/CPCB and also so that there is zero discharge of effluent from the industry & 100% reuse/recycle of the treated water.</p>
2	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical healthcare, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. The safe disposal of wastewater and solid wastes generated during the development/ construction phase should be ensured.</p>	<p>Complied. Mostly local workers 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.</p>
3	<p>The First Aid room shall be provided in the project both during construction and operation of the project.</p>	<p>Noted.</p>
4	<p>All the topsoil excavated during development/ construction activities should be stored for use in horticulture/ landscape development within the project site.</p>	<p>Agreed, the topsoil excavated will be used for landscaping, levelling and plantation purposes in the project site.</p>

5	Disposal of muck during development/ 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. 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.
6	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.
7	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 used during construction phase will be 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.
8	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.
9	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	Complied. It is proposed to develop 15 m green belt all along the boundary of the industrial area. During the construction and development of the industrial area, plantation will be undertaken in a phased manner. Green belt is developed with the local tree and shrub species. Avenue plantation has done along the adjoining roads of the project site. Also individual industrial units are also advised to maintain green belt for at least 33% of the allotted plot area as applicable.

10	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.
11	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 5mtrs. above the highest ground water table.	Noted. The project area and the industries proposed to operate within the area will be directed to provide 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.
12	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 before digging any bore well 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.
13	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking, loading and unloading should be fully internalized and no public space should be utilized.	Noted. Depending on 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.
14	A report on energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials and technology, R &U factors etc. and submit to the SEIAA, Karnataka in three month's time. Energy conservation of 20% be attained vis-a-vis the conventional consumption in perpetuity, through regular monitoring by competent authority.	Noted.

15	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.	Noted and being complied. Energy conservation measures will be adopted wherever possible. Necessary safety measures will be taken for the disposal of CFLs and TFLs or any type of waste which can lead to contamination. Solar panels will be used wherever possible. Industrial units in the project area will also be advised to do the same.
16	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.
17	The Project should be operational with 24*7 monitoring devices as applicable.	Noted.
B	GENERAL CONIDITIONS:	
1	The Environmental safeguards contained in the EIA report should be implemented in letter and spirit.	Agreed. All necessary measures and steps will be taken for the protection of environment and conservation of natural resources.
2	Provision should be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.	Noted. Required infrastructure facility and fuel will be provided to all the labourers for cooking during construction phase.
3	The Project Proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.	Noted.
4	A copy of the environment clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's Office for 30 days.	Noted and followed.

5	The project proponent shall set up a separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	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.
6	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purpose.	Noted.
7	Officials from the Regional Office of MoEF&CC, 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&CC should be forwarded to the CCF, Regional Office of MoEF&CC, Bangalore.	Noted and understood. Full cooperation, facilities & the required documents is be provided during the inspection and whenever required by the competent authority. As suggested complete set of all documents has been submitted to Regional Office-MoEF&CC at Bangalore.
8	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Noted and understood. Any changes in the project approved, will be made as a fresh appraisal in front of the Competent Authority.
9	The Ministry reserves the right to additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environmental Clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted.
10	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained as applicable by project proponents from the respective competent authorities.	Noted. All the necessary approvals and clearances applicable will be obtained from the concerned authorities. Industrial units in the project area are also strictly informed to do the same before starting any kind of activities.

11	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.
12	This Environmental Clearance is subject to obtaining prior clearance from forestry and wildlife angle including clearance from the Standing Committee of the National Board for Wild Life (NBWL), if applicable.	Noted.
13	The Project Proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at http://www.envfor.nic.in . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bangalore.	Noted and complied.
14	This Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted.
15	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 15 of the National Green Tribunal Act. 2010.	Noted.
16	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Noted and followed.

17	The proponent shall upload the status of compliance conditions, including results of monitored data on their update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Noted and will be complied.
18	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment Protection rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Noted and will be complied.

4.0. Environmental Monitoring Details:

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

4.1. Ambient Air Quality Monitoring:

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

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

Sl. No.	Parameters	Limits (As Per NAAQS) for 24hrs	Minimum Value	Maximum Value	Average Value
1	Particulate Matter PM ₁₀ , µg/m ³	100	57.8	64.2	60.8
2	Particulate Matter PM _{2.5} , µg/m ³	60	18.7	25.8	21.6
3	Nitrogen Dioxide NO ₂ , µg/m ³	80	17.3	24.9	20.2
4	Sulphur dioxide as SO ₂ , µg/m ³	80	9.8	13.6	11.5

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 Ramachandrapuram Village	54.3	43.6	55	45
2	Near Auto Precision Engineering- Project site	61.2	55.7	55	45
3	Near Andhra Check post- Project Site	62.2	55.7	55	45
4	Near Gollapuram Village	52.8	41.6	75	70
5	Near Doddakoragodu Village	52.5	41.4	75	70
6	Near Chowlur gate	66.7	59.9	55	45
7	Near Gowdasandra Village	51.1	42	55	45
8	Near Kudumulukunte Village	49.4	40.1	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.

Sl. No.	Parameters	Minimum Value	Maximum Value	Average Value
1	Color (hazen units)	<2.0	<2.0	<2.0
2	Odour	Agreeable	Agreeable	Agreeable
3	pH Value	7.61	8.3	7.9
4	Turbidity, NTU	0.1	12.3	2.9
5	Chloride as Cl, mg/L	41.4	211.9	123.2
6	Total hardness as CaCO ₃ , mg/L	69.9	524.2	341.2
7	Calcium as Ca, mg/L	18.6	149.2	64.5
8	Magnesium as Mg, mg/L	5.6	82	43.7
9	Total dissolved Solids, mg/L	166.0	1081	546.9
10	Sulphate as SO ₄ , mg/L	6.6	56.2	26.7
11	Nitrate as NO ₃ , mg/L	6.8	9.6	8.3
12	Fluoride as F, mg/L	0.2	0.3	0.2
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	2.8	5.0	3.75

4.4. Soil Quality Monitoring:

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

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

Sl. No.	Soil Parameters	Minimum Value	Maximum Value	Average Value
1	pH (20% Suspension)	6.8	8.51	7.8
2	Conductivity, $\mu\text{mhos/cm}$	117.0	302.0	188.8
3	Chloride as Cl, mg/Kg	189.04	433.29	281.7
4	Moisture, %	2.78	5.99	4.5
5	Organic Matter, %	0.97	4.16	2.2
6	Calcium as Ca, mg/Kg	302.1	1334.1	676.3
7	Magnesium Mg, mg/Kg	54.0	181.2	107.7
8	Colour	Brown	Brown	Brown
9	Sulphur as S, mg/Kg	3.0	31.8	14.5
10	Nitrogen as N, %	0.004	0.01	0.006
11	Phosphorous as P, mg/Kg	3.4	9.06	5.5
12	Potassium as K, mg/Kg	17.81	148.92	80.9
13	Copper as Cu, mg/Kg	2.67	24.51	11.7
14	Chromium as Cr, mg/Kg	0.0	42.99	17.6
15	Zinc as Zn, mg/Kg	5.26	48.96	23.3
16	Lead as Pb, mg/Kg	1.94	9.35	5.0
17	Nickel as Ni, mg/Kg	0.0	43.71	13.6
18	Cadmium as Cd, mg/Kg	<0.1	<0.1	<0.1

F.No.21-65/2012-IA-III

Government of India

Ministry of Environment, Forest & Climate Change

(IA-III Section)

Indira Paryavaran Bhawan,

Jor Bagh Road,

New Delhi - 3

Dated: 20th July, 2015

To

The Executive Engineer - II,
Karnataka Industrial Areas Development Board (KIADB),
14/3A, 2nd Floor, CFC Building,
Maharshi Aravinda Bhavan, Opp. RBI, N.T. Road,
Bangalore - 1

Sub: **'Development of Industrial Area Phase - I & II' at Gowribidanpur in District Chikballapura (Karnataka) by Karnataka Industrial Areas Development Board - Environmental Clearance - Reg.**

Sir,

This has reference to your application No. EIA/KIADB-DO-2&EE/MoEF/3527/2014 dated 21.03/2014, submitting the above mentioned proposal to this Ministry for grant of Environmental Clearance (EC) in terms of the provisions of the Environment Impact Assessment Notification (EIA), 2006 under the Environment (Protection), Act, 1986.

2. The proposal for **'Development of Industrial Area Phase - I & II' at Gowribidanpur in District Chikballapura (Karnataka) by Karnataka Industrial Areas Development Board**, was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its 148th meeting held on 19th - 21st May, 2015.

3. The details of the project, as per the documents submitted by the Project Proponents (PP), and also as informed during the above said EAC meeting, are reported to be as under:-

- (i) The TOR was granted for the project vide letter no. 21-65/2012-IA-III dated 06.06.2014.
- (ii) Karnataka Industrial Areas Development Board, are proposing development of Industrial Area Phase - I & II in Gowribidanpur Taluk of Chikballapura District (Karnataka).
- (iii) The project activity is covered under item 7 (c), Category A - Industrial Estates/Parks/Complexes/Areas, Export Processing Zones, Special Economic Zones, Biotech Parks, Leather complexes of the Schedule of EIA Notification, 2006.
- (iv) Proposed project activity involves development of Industrial Area (IA) of phase I & II, envisaged as an Industrial theme park with a vision of providing "Hassle free production environment" for the manufacturing of IT/BT Precision

& Electronic Industries, Garment Industries, Rubber, Foundry Granite & Others and General Industries Such as Engineering Industries like Machine parts, Automobile industry, etc in Phase I. In Phase II, IT/BT & General Industries, Steel & Food Industries, Garment Industries, Agro based Industries, Pharmaceutical Industries, and Power Producing Units & Granite Industries.

(v) Total land for the proposed project is 293.17 Ha, of Kudumalakunte village of Gowribidanur Taluk, Chikkaballapura District (Karnataka).

(vi) The total power required for the proposed project is 55.5 MW which will be taken from Karnataka Power Transmission Corporation Limited (KPTCL).

(vii) Total water requirement for the proposed project is 19.83 MLD (Fresh 8.82 MLD, Treated 11.01 MLD). Tertiary treated water from Bangalore Water Supply and Sewerage Board (BWSSB), Yelahanka, Bangalore. Standby arrangement is Rainwater Harvesting & Borewell.

(viii) It is estimated that the wastewater generation will be 10 MLD from various stages of the industrial operations, and it is proposed to develop a CETP of 10 MLD and 3 MLD CSTP, and most of the wastewater is treated and recycled to minimize the usage of groundwater.

(ix) It is proposed that the industrial area will stick to the Zero Liquid Discharge policy to avoid contamination of the nearby areas and so the groundwater. A systematic CETP and STP are operational 24 Hours to treat the wastewater generation from different systems. Wastewater treated from these facilities will be used as a secondary purpose in the industries and also for the landscape development.

(x) **Parking area** of 9.9 ha is provided for Phase-I and II for employees and for the heavy industrial trucks.

(xi) An area of 30% will be provided for development of greenbelt from the total project area. 15 m greenbelt will be developed along the boundary of the industrial area, and 5 m wide greenbelt along the internal main roads. Plantation will be taken up immediately after obtaining necessary statutory clearances. Local species of 2 to 3 years old will be used for plantation.

(xii) **Investment/Cost:** The capital cost is Rs. 220 Crores, Rs.70 Crores for Phase-I and Rs.150 Crores for Phase-II, and costs towards environmental mitigation measure is Rs 28.55 Crores. Cost for CSR activities is Rs 2.75 Crores.

(xiii) **Public Hearing** was conducted at the project site on 09.01.2014. Major issues raised during Public Hearing are employment should be given to the local people for proposed industrial area, and police station should be established for social security; total water required for the industrial should be fetched from Uttara Pinacani River, as exploitation of groundwater for Industrial purpose is not feasible because groundwater levels are considerable low and most of people depend on the groundwater for daily use; and stringent conditions should be imposed on the industries to comply with pollution control laws; etc.

(xiv) **Employment potential:** Around 36800 jobs will be generated due to the proposed project. Employment will be given based on the qualification and minimum pre requisite conditions will be placed before the selection of candidate based on the nature of the job.

(xv) **Benefits of the project:** Able to attract new business by providing an integrated infrastructure in one location; to set aside industrial uses from urban areas to try to reduce the environmental and social impact of the

industrial uses and to provide for localized environmental controls those are specific to the needs of the industrial area.

4. The proposal was considered by the Expert Appraisal Committee (EAC) in its 148th meeting held on 19th - 21st May, 2015 for grant of Environmental Clearance. As per recommendations of the EAC, the Ministry of Environment, Forest & Climate Change hereby accords Environmental Clearance for the above-mentioned project '**Development of Industrial Area Phase - I & II' at Gowribidanpur in District Chikballapura (Karnataka) by Karnataka Industrial Areas Development Board (KIADB)**, under the provisions of the Environment Impact Assessment Notification, 2006 and amendments thereto and Circulars issued thereon and subject to the compliance of the following specific conditions, in addition to the general conditions mentioned below:-

PART A - SPECIFIC CONDITIONS:

I. Construction Phase

- (i) 'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF& CC along with six Monthly Monitoring reports.
- (iii) Special Purpose Vehicle shall be established for implementation, monitoring and compliance of the environmental safeguards.
- (iv) All the recommendation of the EMP shall be complied with in letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to RO, MoEF&CC along with half yearly compliance report.
- (v) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
- (vi) Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- (vii) Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.
- (viii) Any hazardous waste generated during development/ construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Rajasthan Pollution Control Board.

- (ix) The diesel generator sets to be used during development/ construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- (x) 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.
- (xi) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- (xii) Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during development/ construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- (xiii) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003.
- (xiv) Ready mixed concrete must be used in site development and building construction.
- (xv) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (xvi) Water demand during development/construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xvii) Permission to draw ground water, if any, shall be obtained from the competent Authority prior to construction/operation of the project.
- (xviii) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- SK* (xix) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- (xx) Use of glass facia may be reduced by upto 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality low E value glass.
- (xxi) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.
- (xxii) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air

conditioned spaces while it is aspirational for non-air conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.

- (xxiii) The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire-fighting equipments, etc. as per National Building Code including protection measures from lightening etc.
- (xxiv) Regular supervision of the above and other measures for monitoring should be in place all through the development/ construction phase, so as to avoid disturbance to the surroundings.
- (xxv) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.
- (xxvi) The responses/commitments made to the issues raised during public hearing shall be complied with in letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.
- (xxvii) The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.
- (xxviii) Corporate Social Responsibility:
 - a. The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - b. The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions.
 - c. The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
 - d. To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

II. Operation Phase

- (i) The installation of the Effluent Treatment Plant (ETP)/Sewage Treatment Plant (STP) 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 decentralised treatment should be done. Discharge of unused treated affluent shall conform to the norms and standards of the State Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.
- (ii) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for

cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. The safe disposal of waste water and solid wastes generated during the development/construction phase should be ensured.

- (iii) A First Aid Room will be provided in the project both during construction and operation of the project.
- (iv) All the topsoil excavated during development/construction activities should be stored for use in horticulture/landscape development within the project site.
- (v) Disposal of muck during development/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.
- (vi) 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.
- (vii) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- (viii) 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.
- (ix) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
- (x) Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
- (xi) 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 4 mts. above the highest ground water table.
- (xii) The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- (xiii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking, loading and

unloading should be fully internalized and no public space should be utilized.

- (xiv) A Report on the energy conservation measures conforming to energy conservation norms finalised by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Ministry in three months' time. Energy conservation of 20% be attained vis-a-vis the conventional consumption in perpetuity, through regular monitoring by competent authority.
- (xv) Energy conservation measures like installation of LEDs, 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.
- (xvi) The buildings should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
- (xvii) The project should be operational with 24x7 monitoring devices as applicable.

PART - B. GENERAL CONDITIONS

- (i) The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.
- (ii) Provision should be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.
- (iii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.
- (iv) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
- (v) The project proponent shall set up a separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (vi) The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purpose.

5. Officials from the Regional Office of MoEF&CC, 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&CC should be forwarded to the CCF, Regional Office of MoEF&CC, Bangalore.

6. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.

7. The Ministry 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 Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

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

9. 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.

10. This Environmental Clearance is subject to obtaining prior clearance from forestry and wildlife angle including clearance from the Standing Committee of the National Board for Wild Life (NBWL), if applicable.

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

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

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

14. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.

15. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall

update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

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

S.K.
20/7/2015
(S.K. Srivastava)
Scientist E

Copy to: -

- (1) The Secretary, Department of Environment, Govt. of Karnataka, Bangalore.
- (2) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32.
- (3) The Member Secretary, Karnataka State Pollution Control Board, "Parisara Bhavan, 4th & 5th Floor, # 49, Church Street, Bangalore-01.
- (4) Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wing, 17th Main Road, Koramangala II Block, Bangalore - 34.
- (5) IA Division, Monitoring Cell, MOEF, New Delhi - 3.
- (6) Guard file.

S.K.
20/7/2015
(S.K. Srivastava)
Scientist E

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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

"ಪರಿಸರ ಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
"Parisara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

KIADB Gowribidanur-Phase-55H

NO. PCB/438/CNP/16/

08-1033

DATE - 2 AUG 2017

/ BY REGD. POST WITH ACK. DUE /
(THIS ORDER CONTAINS 08 PAGES)

To

The Development Officer-II & Executive Engineer,
Karnataka Industrial Area Development Board,
KIADB Zone Office, Arvind Bhavan, 2nd Floor, NT Road,
BENGALURU - 560 001.

Sir,

Sub: Consent for establishment (CFE) for development of Industrial Area/Estate Phase-I & II in an extent of land area of 293.17 Ha (Phase-I - 96.68 Ha & Phase - II - 196.49 Ha) located at Gowribidanur, Chikkaballapura District by M/s Karnataka Industrial Area Development Board.

- Ref: 1. Application for consent for establishment of Phase-I & Phase-II received at Regional Office, KSPCB, Chikkaballapura on 14.12.2016.
2. Inspection of the proposed project site Phase -I & Phase -II by Officer of the Regional Office, KSPCB, Chikkaballapura on 09.12.2016 & 14.12.2016 respectively.
3. E.C. issued from the MoEF & CC, Government of India, New Delhi vide No. F No.21-65/2012.IA.III dated 20.07.2015.
4. Proceedings of the consent committee meeting (CCM) held on 25.04.2017 & 02.03.2017.
5. KIADB authorities submitted letter dated 23.06.2017.
6. KIADB authorities request letter dated 10.07.2017.

Preamble:

Previously, The KIADB authorities had filed separate application for Phase-I & II to obtain CFE of the Board for development of Industrial Area in an extent of 96.68 Ha in Phase-I & 196.49 Ha in Phase-II located at Gowribidanur of Chikkaballapura District. They have also obtain EC for both Phase -I & Phase-II from the MoEF & CC, Government of India, New Delhi vide No. F No.21-65/2012.IA.III dated 20.07.2015 for a total extent of 293.17 Ha with total water requirement of 19.83 MLD (Fresh - 8.82 MLD, Treated - 11.01MLD) total waste water generation for 10MLD with 10 MLD CETP and 3MLD CSTP. But the project authorities have applied for two separate CFE for Phase-I & II vide ref (1). Accordingly, the subject of issue of CFE to the Phase-I project was discussed in the consent committee meeting held on 25.04.2017 & Phase -II subject was discussed in the consent committee meeting held on 02.03.2017. The committee after detailed deliberation recommended to issue CFE with conditions to both the projects in the respective committee meetings.


Senior Environmental Officer

But, the KIADB authorities submitted the letter dated 10.07.2017 vide ref (6) & requested to issue single CFE for both Phase -I & II of Gowribidanur Industrial areas. Inview of the single EC issued by SEIAA for Phase-I & Phase-II project areas. The total extent of the Phase -I & II is equal to the EC capacity. Hence, inview of KIADB authorities request the following consent order is made.

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 and Air (Prevention and Control of Pollution) Act, 1981 for development of Industrial Area/Estate Phase-I & II in an extent of land area of 293.17 Ha (Phase-I - 96.68 Ha & Phase - II - 196.49 Ha) located at Gowribidanur, Chikkaballapura District by M/s Karnataka Industrial Area Development Board., subject to the following conditions.

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

- a) The applicant should cover the project site from all sides by raising sufficiently tall barricades with sheets to ensure that pollutants should not spill to the surroundings.
 - b) The applicant shall arrange services like housing facility, water supply, sewage facilities on a temporary basis at construction site and same shall be maintained without any adverse impact on the environment.
 - c) The applicant shall control the movement of vehicles carrying construction materials in order to avoid noise pollution in the surrounding.
 - d) The project proponent shall strictly adhere to the conditions stipulated in the Environmental clearance issued from the MoEF & CC, Government of India, New Delhi vide No. F No.21-65/2012.IA.III dated 20.07.2015.
 - e) The applicant shall strictly adhere to the zoning Regulation with respect to buffer zone towards any Lake, Nala, drain or any other water bodies as per the local planning authority guidelines.
 - f) The applicant shall strictly follow the directions of Hon'ble NGT Order dated 04.05.2016 in respect of OA 222/2014, if applicable.
 - g) The applicant shall submit final approved plan from competent authority to the Board before taking up any construction activities.
 - h) The applicant shall seek extension through a letter 45 days in advance of the expiry of validity period of CFE/CFExpn order with proper reasons for seeking such extension if required.
 - i) The applicant to maintain 5 rows of plantation along the boundaries of the industrial area and to see that only green category industries are allotted towards the adjoining village limits.
1. This consent for establishment shall be valid for a period of Five years from the date of issue of this Order.


Senior Environmental Officer

2. The applicant shall not take expansion/diversification without the prior consent of the Board.
3. The applicant shall obtain necessary licence/clearance from their relevant agencies before taking up construction.
4. The applicant shall obtain NOC from the Board before handing over of apartment to residents Association.
5. The applicant shall maintain utilities including STP for a minimum period of five years.
6. The applicant shall use treated sewage for secondary purposes including construction.
7. This CFE is issued only from the point of water pollution control only and does not have any relevance over land dispute, any pending cases with any Departments/Hon'ble Courts.
8. Sewage Treatment Plant (STP) and Solid waste processing facility (for organic) shall be provided and operated satisfactorily by the project proponent himself before it is handed over to Association/Company.

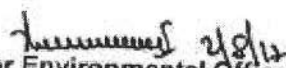
II. WATER CONSUMPTION:

1. The water consumption shall not exceed **19.83 MLD**.
2. The total wastewater generation from Phase-I & II shall not exceed 10MLD.
3. No ground water is to be drawn without permission from the Central/State Ground Water Authority.
4. Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.

III. WATER POLLUTION CONTROL:

1. The total quantity of waste water shall be treated in the Common Sewage Treatment Plant (CSTP) of capacity 3 MLD and Common Effluent Treatment Plant (CETP) of capacity 10 MLD for treatment of sewage and industrial effluent as stipulated in Environmental Clearance with the treatment scheme as submitted in the STP proposal to meet the standards stipulated below before utilizing for Urban Reuse viz., landscape irrigation, vehicle washing, toilet flushing building construction use in fire protection and commercial air conditioners. STP shall be constructed on modular basis to cater to phase-wise development.

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


Senior Environmental Officer

2. Applicant shall add appropriate disinfectant to treated sewage to ensure some residual chlorine preferably in the range of 1 mg/l. to 3 mg/l.
3. The applicant shall treat pretreated waste water from individual units in their 10 MLD CETP and shall submit the complete design details to the Board before installation of the same.
4. It is the responsibility of the applicant to comply EC condition with regard to installation of CSTP and CETP.
5. The secondary and tertiary treated waste water will be supplied to industries for cooling, flushing & gardening.
6. If the treatment plant do not achieve the effluent standards stipulated under conditions (1) above or if it is found to be inadequate, then the applicant shall have to modify the units so as to meet the standards with prior consent of the Board.
7. All the treatment units shall be made impervious and there shall not be any discharge of sewage outside the premises.
8. The applicant shall provide separate energy meter to liquid waste treatment plant and STP and also shall provide flow meters as per Water Cess Act, 1977. A log book of readings shall be maintained.
9. The applicant should make provisions for dual piping system to use the treated sewage water for toilet flushing, gardening and other purposes.
10. The applicant shall dispose excess treated sewage i.e. left after using for secondary purposes. The applicant shall maintain log book and vehicle details in this regard.

IV. AIR POLLUTION CONTROL:

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

V. NOISE POLLUTION CONTROL:

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

Senior Environmental Officer

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VI. SOLID WASTE & HAZARDOUS WASTE DISPOSAL:

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

VII. HEALTH & SAFETY:

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

VIII. GENERAL :


1. The applicant shall maintain natural nallah and other such feature as in the Revenue Survey map and adopting zonal regulations of the concerned Planning authorities.
2. The industrial units in the industrial area and the associated facilities shall be strictly in accordance with the norms laid down by the Karnataka State Government and Board.
3. The existing water body, canals and rajakaluve and other drainage and water bound structures if any shall be retained unaltered with due buffer zone as applicable and maintained under tree cover.
4. The natural sloping pattern of the project site other than the area excavated for the purpose of construction of proposed building shall remain unaltered and the natural hydrology of the area be maintained as it is to ensure natural flow of storm water.
5. Lakes and other water bodies within and/or at the vicinity of the project area shall be protected and conserved.

[Signature]
 Senior Environmental Officer
[Initials]

6. The project Authority shall allow only the Orange and Green category industries and strictly as proposed in the layout plan.
7. The solid waste generated should be properly collected and segregated Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling, after recovering recyclable material.
8. The project proponent shall ensure development of a minimum of 33% of the project area which shall include the buffer zone and green belt developed by individual industries. The project authority may undertake compensatory green belt development through avenue plantation in the adjoin roads and in the civic amenity area if there is any shortfall within the project site in the unavoidable circumstances.
9. The provision of Energy Conservation Building code, 2006 shall be fully complied with.
10. The project authority shall ensure that no water bodies are polluted due to project activities and the nala/water bodies if any within the project areas are well protected with sufficient buffer.
11. The project authorities shall not use Kharab land if any for any purpose and keep available to the general public duly displaying a board as public property. No structure of any kind be put up in the Kharab land and shall be afforested and maintained as green belt only.
12. The authorities should include the condition while issuing plots to the prospective individual industries that they should develop greenbelt of 33% of the plot area allotted for them.
13. The project proponent shall ensure that the greenery of the area is maintained. Further 33% of the project area shall be dedicated for green belt development. The local Forest Department shall be associated for this purpose and requisite budget earmarked.
14. Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
15. The project authorities shall bifurcate the industrial plots and residential plots with a thick and tall vegetative barrier green belt.
16. The project authority shall incorporate a condition in the prospective lease/sale deed/Agreement with individual industries that they also shall abide by the conditions of this E.C.
17. The applicant shall comply with the provisions of Water (Prevention and Control of Pollution) Cess Act, 1977.
18. The applicant must create structure/storage facility for rain water harvesting and ground water recharge.
19. The applicant should make provisions for dual piping system to use the treated sewage water for toilet flushing, gardening and other purposes.


Senior Environmental Officer

20. The applicant shall arrange for alternate power supply in the form of D.G Set to run and operate the essential units of sewage treatment plant, in event of brake down of regular supply from Electricity Board.
21. The applicant shall implement the Environmental Management Plan during construction and after construction as given under EMP report.
22. The applicant shall not change or alter (a) building plan (b) the quality, quantity or rate of discharge/ emissions and (c) install/replace/alter the water or air pollution control measures without the prior approval of the Board.
23. 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.
24. 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.
25. The applicant shall appoint a qualified Environmental Engineer/ Scientist for the Management of Environmental aspects and also establish Environmental Cell to oversee the operation of STP.
26. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
27. 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.
28. The application shall adopt Eco-sanitation system in the project.
29. 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.
30. The project authorities shall dispose scientifically Bio-Medical waste and electronic waste to authorized common disposal facility and authorized recyclers respectively by entering into agreement as per new Bio Medical Waste Management Rules, 2016 and E- Waste (Management) Rules, 2016.
31. The project authorities shall adopt green building concept.
32. The project authorities shall establish Environmental Cell during operation phase to comprehensively manage environment related issues.
33. Suitable local tree species shall be selected for greenery and minimum three rows of plant saplings shall be planted all-along the periphery of the site.


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34. The CFE is issued without prejudice to the Court case pending in any Hon'ble Court.

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


The receipt of this letter may please be acknowledged.

For and on behalf of
Karnataka State Pollution Control Board

Sd/-
Senior Environmental Officer

COPY TO:

1. The Environmental Officer, KSPCB, Regional Office, Chikkaballapura for information.
He is directed to inspect the site and submit quarterly compliance report.
2. Master copy (CFE-Cell).
3. Master copy (Dispatch).
4. Office copy.


Senior Environmental Officer

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Sd/- Executive Engineer, Project (West) Division

"Pay development charges, help to develop Bengaluru"



KARNATAKA INDUSTRIAL AREAS DEVELOPMENT BOARD

(A Government of Karnataka Undertaking)

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

Fax: 080-22267901 website: www.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. Vasanthanarasapura Industrial Area, 2nd & 3rd Phase, Tumakuru District.
3. Gowribidanur, 1st & 2nd Stage Industrial Area, Chikkaballapura District.
4. Kadechuru Industrial Area, Kadechuru Village, Yadgiri Taluk & District.
5. Chamarajanagara Industrial Area, Badanakuppe and Kallambelli villages, Chamarajanagara Taluk & District.
6. Harohalli Industrial Area, 2nd & 3rd Phase, Ramangara District
7. Jakanasandra Industrial Area, Jakasandra village, Malur Taluk, Kolar District.

B. Environmental Clearance from SEIAA

- 1) Malur Industrial Area, 4th Phase, Malur Taluk, Kolar District.
- 2) Narasapura Industrial Area, 1st Stage, Kolar District.
- 3) IT/BT Park, Gamanagatti, Tarihal Village, Dharwad District.
- 4) Bidadi Industrial Area, 2nd Phase, Ramanagara District.
- 5) Vemagal Industrial Area, Kolar District.
- 6) Vasanthanarasapura Industrial Area, 1st Stage, Tumakuru Taluk & District.
- 7) Hi-Tech Defence & Aerospace Components, Devanahalli Taluk, Bengaluru Rural District.
- 8) Doddaballapura Industrial Area, 3rd Phase, Obdenahalli, Doddaballapura Taluk, Bangalore Rural District.
- 9) Kittur Industrial Area, Bailahongal Taluk, Belagavi District.
- 10) Nandur Kesaratagi Industrial Area, 2nd Phase, Kalaburagi Taluk & District.

Sd/- Chief Development Officer & Chief Engineer

RAVARI NIGAM LIMITED

(Karnataka Enterprise)

Executive Engineer,

Project Division, Ranebennur.

Madhapura Corrigendum-3/

dtd: 19-03-2018

CORRIGENDUM-3

Notification No. 3944/017-18

Corrigendum -1 Notification

2018 3) This office

4447 dtd: 03-03-2018

Notations 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

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Taluk Havrei Districts. including

for a period of 5 years after

completion of scheme on Turn-

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(Madlur) LIS works's drawings

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endum for the above said work

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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/2021/00259
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 26/02/2021 to 27/02/2021
Job Order No	: RE/2021/00259
Date of Receipt	: 28/02/2021
Analysis Start date	: 01/03/2021
Analysis Completed date	: 05/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Location: Near Ramachandrapuram Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	61.2	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	20.7	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	19.5	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	10.8	80	IS-5182 (P-02)

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

Details of Equipment used for monitoring

Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	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-----

5/3/21
Verified by

05/03/21
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



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/2021/00260
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 26/02/2021 to 27/02/2021
Job Order No	: RE/2021/00260
Date of Receipt	: 28/02/2021
Analysis Start date	: 01/03/2021
Analysis Completed date	: 05/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Location: Near Auto Precision Engineering- Project site.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	63.5	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	25.8	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	22.9	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	13.6	80	IS-5182 (P-02)

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

Details of Equipment used for monitoring

Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	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

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

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



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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/2021/00261
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 26/02/2021 to 27/02/2021
Job Order No	: RE/2021/00261
Date of Receipt	: 28/02/2021
Analysis Start date	: 01/03/2021
Analysis Completed date	: 05/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Location: Near Andhra Check post- Project Site.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	64.2	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	23.5	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	24.9	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	12.8	80	IS-5182 (P-02)

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

Details of Equipment used for monitoring

Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	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

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

Verified by
6/3/21

Authorized Signatory
S-8 D 05/03/21

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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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/2021/00262
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 26/02/2021 to 27/02/2021
Job Order No	: RE/2021/00262
Date of Receipt	: 28/02/2021
Analysis Start date	: 01/03/2021
Analysis Completed date	: 05/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Location: Near Gollapuram Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	58.9	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	19.6	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	17.5	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	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	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

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

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



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TEST REPORT



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

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

Report No.	: RE/2021/00263
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 26/02/2021 to 27/02/2021
Job Order No	: RE/2021/00263
Date of Receipt	: 28/02/2021
Analysis Start date	: 01/03/2021
Analysis Completed date	: 05/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Location: Near Doddakoragodu Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	58.6	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	18.7	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	17.3	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	11.6	80	IS-5182 (P-02)

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

Details of Equipment used for monitoring

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

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

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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



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/2021/00269
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 27/02/2021 to 28/02/2021
Job Order No	: RE/2021/00269
Date of Receipt	: 28/02/2021
Analysis Start date	: 01/03/2021
Analysis Completed date	: 05/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Location: Near Chowlur Gate.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	62.7	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	23.9	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	21.8	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	12.6	80	IS-5182 (P-02)

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

Details of Equipment used for monitoring

Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	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,
Race Course Road, Bengaluru,
Karnataka 560 001.

Report No.	: RE/2021/00270
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 27/02/2021 to 28/02/2021
Job Order No	: RE/2021/00270
Date of Receipt	: 28/02/2021
Analysis Start date	: 01/03/2021
Analysis Completed date	: 05/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Location: Near Gowdasandra Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	59.7	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	19.0	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	18.6	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	9.8	80	IS-5182 (P-02)

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

Details of Equipment used for monitoring

Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	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

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

8/3/21
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No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
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Report No.	: RE/2021/00271
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 27/02/2021 to 28/02/2021
Job Order No	: RE/2021/00271
Date of Receipt	: 28/02/2021
Analysis Start date	: 01/03/2021
Analysis Completed date	: 05/03/2021

Sample Particulars: Ambient Air Monitoring for 24 hrs.

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Location: Near Kudumalukunte Village.

Sl. No.	Parameters	Results	Limits (As Per NAAQS) For 24hrs	Protocol
1	Particulate Matter PM ₁₀ , µg/m ³	57.8	100	IS-5182 (P-23)
2	Particulate Matter PM _{2.5} , µg/m ³	21.3	60	IS-5182 (P-24)
3	Nitrogen Dioxide NO ₂ , µg/m ³	19.0	80	IS-5182 (P-06)
4	Sulphur dioxide as SO ₂ , µg/m ³	10.6	80	IS-5182 (P-02)

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

Details of Equipment used for monitoring

Name of the equipment	Respirable Dust Sampler	Fine Particulate Sampler
Model	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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05/03/21
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TEST REPORT



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

No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
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Report No.	: RE/2021/00264
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 26/02/2021 to 27/02/2021
Job Order No	: RE/2021/00264
Date of Receipt	: 28/02/2021
Analysis Start date	: 05/03/2021
Analysis Completed date	: 05/03/2021

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).
Sample Particulars: Noise Monitoring for 24 hrs.

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00264	Near Ramachandrapuram Village	6:01 AM to 10:00 PM	51.8	56.9	54.3
		10:01 PM to 6:00 AM	39.6	47.9	43.6

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.
- "A", in dB (A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to Frequency response characteristics of the human ear

INFERENCE

As per CPCB Standards,

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

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TEST REPORT



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

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

Report No.	: RE/2021/00265
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 26/02/2021 to 27/02/2021
Job Order No	: RE/2021/00265
Date of Receipt	: 28/02/2021
Analysis Start date	: 05/03/2021
Analysis Completed date	: 05/03/2021

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).
Sample Particulars: Noise Monitoring for 24 hrs.

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00265	Near Auto Precision Engineering- Project site	6:01 AM to 10:00 PM	55.2	67.8	61.2
		10:01 PM to 6:00 AM	45.9	67.7	55.7

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

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

INFERENCE

As per CPCB Standards,

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

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TEST REPORT



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

No. 49, 4th & 5th Floor, East Wing, Khanija Bhavan,
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Report No.	: RE/2021/00266
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 26/02/2021 to 27/02/2021
Job Order No	: RE/2021/00266
Date of Receipt	: 28/02/2021
Analysis Start date	: 05/03/2021
Analysis Completed date	: 05/03/2021

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Particulars: Noise Monitoring for 24 hrs.

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00266	Near Andhra Check post- Project Site.	6:01 AM to 10:00 PM	56.7	68.2	62.2
		10:01 PM to 6:00 AM	52.6	58.9	55.7

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

- Day Time is reckoned between 6 A.M and 10 P.M.
- Night Time is reckoned between 10 P.M and 6 A.M.
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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-----

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TEST REPORT



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

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Report No.	: RE/2021/00267
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 26/02/2021 to 27/02/2021
Job Order No	: RE/2021/00267
Date of Receipt	: 28/02/2021
Analysis Start date	: 05/03/2021
Analysis Completed date	: 05/03/2021

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Particulars: Noise Monitoring for 24 hrs.

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00267	Near Gollapuram Village	6:01 AM to 10:00 PM	50.7	55.0	52.8
		10:01 PM to 6:00 AM	37.5	46.2	41.6

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

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- Night Time is reckoned between 10 P.M and 6 A.M.
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INFERENCE

As per CPCB Standards,

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

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

[Signature]

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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,
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Report No.	: RE/2021/00268
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 26/02/2021 to 27/02/2021
Job Order No	: RE/2021/00268
Date of Receipt	: 28/02/2021
Analysis Start date	: 05/03/2021
Analysis Completed date	: 05/03/2021

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).
Sample Particulars: Noise Monitoring for 24 hrs.

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00268	Near Doddakoragodu Village	6:01 AM to 10:00 PM	50.3	54.9	52.5
		10:01 PM to 6:00 AM	38.6	44.3	41.4

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.!
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- "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-----

[Signature]

Verified by

[Signature] 05/03/21
Authorized Signatory

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



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

TEST REPORT



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

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

Report No.	: RE/2021/00272
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 27/02/2021 to 28/02/2021
Job Order No	: RE/2021/00272
Date of Receipt	: 28/02/2021
Analysis Start date	: 05/03/2021
Analysis Completed date	: 05/03/2021

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).
Sample Particulars: Noise Monitoring for 24 hrs.

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00272	Near Chowlur gate	6:01 AM to 10:00 PM	57.2	73.1	66.7
		10:01 PM to 6:00 AM	52.4	68.5	59.9

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.
- *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-----

5/3/21
Verified by

5/3/21
Authorized Signatory

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



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

TEST REPORT



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

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

Report No.	: RE/2021/00273
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 27/02/2021 to 28/02/2021
Job Order No	: RE/2021/00273
Date of Receipt	: 28/02/2021
Analysis Start date	: 05/03/2021
Analysis Completed date	: 05/03/2021

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).
Sample Particulars: Noise Monitoring for 24 hrs.

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00273	Near Gowdasandra Village	6:01 AM to 10:00 PM	48.6	53.8	51.1
		10:01 PM to 6:00 AM	39.2	44.9	42.0

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

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

INFERENCE

As per CPCB Standards,

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

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

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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/2021/00274
Report date	: 05/03/2021
Ref.	: Test Request Form
Date of Sampling	: 27/02/2021 to 28/02/2021
Job Order No	: RE/2021/00274
Date of Receipt	: 28/02/2021
Analysis Start date	: 05/03/2021
Analysis Completed date	: 05/03/2021

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext-724.12A).

Sample Particulars: Noise Monitoring for 24 hrs.

J.O.No.	Location	Time Frequency	L min dB(A)	L max dB(A)	L eq dB(A)
RE/2021/00274	Near Kudumalukunte Village	6:01 AM to 10:00 PM	44.7	54.6	49.4
		10:01 PM to 6:00 AM	37.6	42.8	40.1

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

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

INFERENCE

As per CPCB Standards,

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

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Report No.	: RE/2021/00283
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00283
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

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

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	7.9	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	211.9	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	392.2	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	48.1	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	556.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	31.8	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	9.5	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.2	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 rd 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 rd Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

Lakshmi Pais
10/3/21
Verified by

S. S. S. 10/03/21
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M/s. Karnataka Industrial Areas Development Board (KIADB).

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Karnataka 560 001.

Report No.	: RE/2021/00283
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00283
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of **Borewell Water - Near Gollapuram 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 rd Edition
18	Dissolved oxygen, mg/L	4.1	-	-	APHA 23 rd Edition

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

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

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

Lakshmi P. S.
10/3/21
Verified by

S. S. S.
10/03/21
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M/s. Karnataka Industrial Areas Development Board (KIADB).

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Report No.	: RE/2021/00284
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00284
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

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

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	7.81	6.5 – 8.5	No relaxation	IS 3025 (Part – 11): 1983 Reaff.2017
4	Turbidity, NTU	0.9	1	5	IS 3025 (Part – 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	207.3	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	361.1	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	94.8	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	30.2	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	778.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	56.2	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	8.2	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.2	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 rd 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 rd Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019
<div style="display: flex; justify-content: space-between;"> <div> <p><i>Verified by</i> 10/3/21</p> </div> <div> <p><i>Authorized by</i> 10/3/21</p> </div> </div>					
Page 1 of 2					

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

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Report No.	: RE/2021/00284
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00284
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of Borewell Water - Near Kudumulukunte 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 rd Edition
18	Dissolved oxygen, mg/L	5.0	-	-	APHA 23 rd Edition

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

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

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

Lakshmi P. S.
10/3/21
Verified by

S. S. S. S.
10/3/21
Authorized by

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

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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/2021/00285

Report date : 10/03/2021

Reference : Test Request Form

Sample receipt date : 28/02/2021

Job Order No : RE/2021/00285

Date of Sampling : 27/02/2021

Analysis start date : 01/03/2021

Analysis completion date : 10/03/2021

Sample Qty: 2 Ltrs

Sampling Protocol : E/WP/65

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

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

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	7.61	6.5 – 8.5	No relaxation	IS 3025 (Part – 11): 1983 Reaff.2017
4	Turbidity, NTU	0.4	1	5	IS 3025 (Part – 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	211.9	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	524.2	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	149.2	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	36.7	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	1081.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	42.3	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	9.6	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.3	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 rd 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 rd Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

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10/03/21

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Karnataka 560 001.

Report No.	: RE/2021/00285
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00285
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of Borewell Water - Near Gowdasandra 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 rd Edition
18	Dissolved oxygen, mg/L	4.1	-	-	APHA 23 rd Edition

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

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

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

Santhosh
10/3/21
Verified by

S. S. S.
10/03/21
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TEST REPORT



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

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

Report No. : RE/2021/00286

Report date : 10/03/2021

Reference : Test Request Form

Sample receipt date : 28/02/2021

Job Order No : RE/2021/00286

Date of Sampling : 27/02/2021

Analysis start date : 01/03/2021

Analysis completion date : 10/03/2021

Sample Qty: 2 Ltrs

Sampling Protocol : E/WP/65

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of Borewell Water - Near Auto precision Engineering- Project Site.

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part - 5): 1983 Reaff.2018
3	pH Value	7.68	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	161.3	250	1000	IS 3025 (Part - 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	399.9	200	600	IS 3025 (Part - 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	46.6	75	200	IS 3025 (Part - 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	68.8	30	100	IS 3025 (Part - 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	626.0	500	2000	IS 3025 (Part - 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	22.5	200	400	IS 3025 (Part - 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	8.4	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.2	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 rd 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 rd Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part - 49): 1994 Reaff 2019

Lawrence P. S.
10/3/21
Verified by

S. S. B.
10/03/21
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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/2021/00286
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00286
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of Borewell Water - Near Auto precision Engineering- Project Site.

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 rd Edition
18	Dissolved oxygen, mg/L	4.2	-	-	APHA 23 rd Edition

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

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

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

Verified by
10/3/21

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10/3/21

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.

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/2021/00287
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00287
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of **Surface Water - Near Doddakoragodu Village.**

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	7.92	6.5 – 8.5	No relaxation	IS 3025 (Part – 11): 1983 Reaff.2017
4	Turbidity, NTU	8.4	1	5	IS 3025 (Part – 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	50.7	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	399.9	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	24.8	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	82.0	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	166.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	8.8	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	7.8	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.2	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 rd 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 rd Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019
<div style="display: flex; justify-content: space-between;"> <div> <p><i>Lakshmi Reddy</i> 10/3/21 Verified by</p> </div> <div> <p><i>S. B. S. 10/03/21</i> Authorized by</p> </div> </div>					
Page 1 of 2					

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TEST REPORT

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

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

Report No.	: RE/2021/00287
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00287
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of Surface Water - Near Doddakoragodu 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 rd Edition
18	Dissolved oxygen, mg/L	3.6	-	-	APHA 23 rd Edition

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

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

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

Jack Shree
10/3/21
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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/2021/00288
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00288
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of Lake Water – Near Kudumulukunte village.

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part - 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part - 5): 1983 Reaff.2018
3	pH Value	8.3	6.5 – 8.5	No relaxation	IS 3025 (Part - 11): 1983 Reaff.2017
4	Turbidity, NTU	12.3	1	5	IS 3025 (Part - 10): 1984 Reaff.2017
5	Chloride as Cl, mg/L	46.1	250	1000	IS 3025 (Part - 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	69.9	200	600	IS 3025 (Part - 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	18.6	75	200	IS 3025 (Part - 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	5.6	30	100	IS 3025 (Part - 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	180.0	500	2000	IS 3025 (Part - 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	6.6	200	400	IS 3025 (Part - 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	6.8	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.2	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 rd 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 rd Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part - 49): 1994 Reaff 2019

James Shekhar
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S. B. 10/03/21
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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/2021/00288

Report date : 10/03/2021

Reference : Test Request Form

Sample receipt date : 28/02/2021

Job Order No : RE/2021/00288

Date of Sampling : 27/02/2021

Analysis start date : 01/03/2021

Analysis completion date : 10/03/2021

Sampling Protocol : E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of Lake Water – Near Kudumalukunte 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 rd Edition
18	Dissolved oxygen, mg/L	2.8	-	-	APHA 23 rd Edition

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

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

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

Leekshmi Rai S
10/3/21
Verified by

S. OB 10/03/21
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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/2021/00289
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00289
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

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

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	7.8	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	55.3	250	1000	IS 3025 (Part – 32): 1988 Reaff.2019
6	Total hardness as CaCO ₃ , mg/L	287.3	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	43.5	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	43.3	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	442.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	34.3	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	8.2	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.3	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 rd 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 rd Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

Loakeshwar
10/3/21
Verified by

S. O. B.
10/03/21
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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/2021/00289
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00289
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of Borewell Water – Near Thumukunta 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 rd Edition
18	Dissolved oxygen, mg/L	3.1	-	-	APHA 23 rd Edition

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

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

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

Lakshmi Pooja
10/3/21
Verified by

S. S. S. S.
10/03/21
Authorized by

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/2021/00290
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00290
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

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

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500: 2012	Maximum Permissible Limit IS 10500: 2012	Protocol
Description: Colorless liquid.					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part- 4): 1983 Reaff.2017
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5): 1983 Reaff.2018
3	pH Value	7.83	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 ₃ , mg/L	295.1	200	600	IS 3025 (Part – 21): 2009 Reaff.2019
7	Calcium as Ca, mg/L	60.6	75	200	IS 3025 (Part – 40): 1991 Reaff.2019
8	Magnesium as Mg, mg/L	34.9	30	100	IS 3025 (Part – 46): 1994 Reaff.2019
9	Total dissolved Solids, mg/L	546.0	500	2000	IS 3025 (Part – 16): 1984 Reaff.2017
10	Sulphate as SO ₄ , mg/L	10.8	200	400	IS 3025 (Part – 24): 1986 Reaff.2019
11	Nitrate as NO ₃ , mg/L	8.2	45.0	No relaxation	APHA 23 rd Edition
12	Fluoride as F, mg/L	0.2	1.0	1.5	APHA 23 rd Edition
13	Iron as Fe, mg/L	BDL	0.3	No relaxation	APHA 23 rd 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 rd Edition
16	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49): 1994 Reaff 2019

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

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

Report No.	: RE/2021/00290
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00290
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/65

Sample Qty: 2 Ltrs

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One sample of Borewell Water - Near Ramachandrapuram 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 rd Edition
18	Dissolved oxygen, mg/L	3.1	-	-	APHA 23 rd Edition

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

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

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

Verified by
10/3/21

Authorized by
10/03/21

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/2021/00275
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00275
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/77

Sample Qty : 1kg

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One Soil Sample- Near Gollapuram Village.

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	7.58	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ hos/cm	117.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	258.0	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	2.78	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	1.3	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	467.8	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	102.0	Practical Manual for Hands on training GKV Bengaluru

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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.

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/2021/00275
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00275
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/77

Sample Qty : 1kg

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One Soil Sample- Near Gollapuram Village.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	3.7	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.004	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	3.4	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	91.01	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	9.31	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	32.23	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	40.93	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	9.35	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	14.69	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

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

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TEST REPORT



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

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

Report No.	: RE/2021/00276
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00276
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/77

Sample Qty : 1kg

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One Soil Sample- Near Andhra check post- 2nd phase- Project Site.

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	7.71	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ hos/cm	207.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	204.3	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	5.99	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	2.48	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	696.4	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	88.8	Practical Manual for Hands on training GKV Bengaluru

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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/2021/00276
	Report date	: 10/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 28/02/2021
	Job Order No	: RE/2021/00276
	Date of Sampling	: 27/02/2021
	Analysis start date	: 01/03/2021
	Analysis completion date	: 10/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Gowribidanur Industrial Area, 1 st & 2 nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)		
Sample Particulars: One Soil Sample- Near Andhra checkpoint-2nd phase- Project Site.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	3.0	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	5.67	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	148.3	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	24.51	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	42.99	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	48.96	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	7.73	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	43.71	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

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

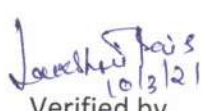

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00277
	Report date	: 10/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 28/02/2021
	Job Order No	: RE/2021/00277
	Date of Sampling	: 27/02/2021
	Analysis start date	: 01/03/2021
	Analysis completion date	: 10/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Gowribidanur Industrial Area, 1 st & 2 nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)		
Sample Particulars: One Soil Sample- Near Gowdasandra Village.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	7.20	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ mhos/cm	145.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	404.6	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	4.48	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	3.16	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	309.6	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	166.8	Practical Manual for Hands on training GKV Bengaluru
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  Verified by </div> <div style="text-align: center;">  Authorized by </div> </div>			
Page 1 of 2			

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

TEST REPORT

M/s. Karnataka Industrial Areas Development Board (KIADB). No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00277
	Report date	: 10/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 28/02/2021
	Job Order No	: RE/2021/00277
	Date of Sampling	: 27/02/2021
	Analysis start date	: 01/03/2021
	Analysis completion date	: 10/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Gowribidanur Industrial Area, 1 st & 2 nd Stage, Chikballapur District, Karnataka. (Ext- 724.12 A)		
Sample Particulars: One Soil Sample- Near Gowdasandra Village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	18.6	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.005	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	4.27	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	110.7	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	6.96	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	6.12	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	16.53	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	6.51	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	3.54	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

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

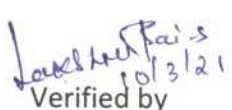
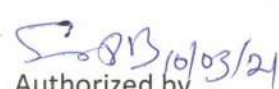
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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00278
	Report date	: 10/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 28/02/2021
	Job Order No	: RE/2021/00278
	Date of Sampling	: 27/02/2021
	Analysis start date	: 01/03/2021
	Analysis completion date	: 10/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Gowribidanur Industrial Area, 1 st & 2 nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)		
Sample Particulars: One Soil Sample- Near Ramachandrapuram Village.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	7.41	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ mhos/cm	222.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	189.04	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	3.41	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	0.97	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	885.8	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	181.2	Practical Manual for Hands on training GKV Bengaluru
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  Verified by </div> <div style="text-align: center;">  Authorized by </div> </div>			
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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/2021/00278
	Report date	: 10/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 28/02/2021
	Job Order No	: RE/2021/00278
	Date of Sampling	: 27/02/2021
	Analysis start date	: 01/03/2021
	Analysis completion date	: 10/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Gowribidanur Industrial Area, 1 st & 2 nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)		
Sample Particulars: One Soil Sample- Near Ramachandrapuram Village.		

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	13.7	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.004	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	5.71	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	17.81	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	4.06	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	0	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	5.26	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	4.21	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	0	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

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

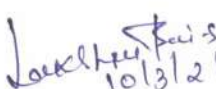

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TEST REPORT



M/s. Karnataka Industrial Areas Development Board (KIADB). No.49, 4th & 5th Floor, East Wing, Khanija Bhavan, Race Course Road, Bengaluru, Karnataka 560 001.	Report No.	: RE/2021/00279
	Report date	: 10/03/2021
	Reference	: Test Request Form
	Sample receipt date	: 28/02/2021
	Job Order No	: RE/2021/00279
	Date of Sampling	: 27/02/2021
	Analysis start date	: 01/03/2021
	Analysis completion date	: 10/03/2021
Sample Qty : 1kg	Sampling Protocol	: E/WP/77
Name of the Industrial Area: Gowribidanur Industrial Area, 1 st & 2 nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)		
Sample Particulars: One Soil Sample- Near Chowlur gate.		

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	8.48	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ mhos/cm	302.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	275.6	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	5.02	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	305.2	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	54.0	Practical Manual for Hands on training GKV Bengaluru
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  Verified by </div> <div style="text-align: center;">  Authorized by </div> </div>			
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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/2021/00279
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00279
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/77

Sample Qty : 1kg

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One Soil Sample- Near Chowlur gate.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	13.5	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.008	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	9.06	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	148.92	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	20.25	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	18.38	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	27.56	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	2.91	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	13.36	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

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

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TEST REPORT



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

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

Report No.	: RE/2021/00280
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00280
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/77

Sample Qty : 1kg

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One Soil Sample- Near Kudumulukunte Village.

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	6.80	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ hos/cm	131.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	239.9	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	5.80	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	4.16	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	302.1	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	90.0	Practical Manual for Hands on training GKV Bengaluru

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10/3/21
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S B 10/3/21
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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/2021/00280
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00280
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/77

Sample Qty : 1kg

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One Soil Sample- Near Kudumulukunte Village.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	28.2	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.008	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	5.07	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	25.88	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	2.67	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	3.40	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	10.16	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	4.0	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	1.84	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-----

Jacky Ho
10/3/21
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S. B. B. B.
10/3/21
Authorized by

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/2021/00281
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00281
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/77

Sample Qty : 1kg

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One Soil Sample- Near Auto precision Engineering-2nd phase- Project Site.

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	8.47	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ hos/cm	228.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	249.2	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	3.43	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	2.05	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	1334.1	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	92.4	Practical Manual for Hands on training GKV Bengaluru

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10/3/21

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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/2021/00281
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00281
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/77

Sample Qty : 1kg

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One Soil Sample- Near Auto precision Engineering-2nd phase- Project Site.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	31.8	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.004	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	3.69	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	40.20	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	18.08	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	29.40	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	18.48	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	3.66	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	20.64	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-----

Jacky Sai
10/3/21
Verified by

S. B. 10/03/21
Authorized by

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/2021/00282
Report date	: 10/03/2021
Reference	: Test Request Form
Sample receipt date	: 28/02/2021
Job Order No	: RE/2021/00282
Date of Sampling	: 27/02/2021
Analysis start date	: 01/03/2021
Analysis completion date	: 10/03/2021
Sampling Protocol	: E/WP/77

Sample Qty : 1kg

Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikkaballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One Soil Sample- Near Doddakurugodu Village.

Sl. No.	Test	Result	Protocol
Description: Brown Colored Soil.			
1	pH (20% Suspension)	8.51	Practical Manual for Hands on training GKV Bengaluru
2	Conductivity, μ hos/cm	158.0	Practical Manual for Hands on training GKV Bengaluru
3	Chloride as Cl, mg/Kg	433.29	Practical Manual for Hands on training GKV Bengaluru
4	Moisture, %	5.39	Practical Manual for Hands on training GKV Bengaluru
5	Organic Matter, %	1.03	Practical Manual for Hands on training GKV Bengaluru
6	Calcium as Ca, mg/Kg	1109.2	Practical Manual for Hands on training GKV Bengaluru
7	Magnesium Mg, mg/Kg	86.4	Practical Manual for Hands on training GKV Bengaluru

Verifying
10/3/21
Verified by

S. D. S.
10/03/21
Authorized by

TEST REPORT

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Name of the Industrial Area: Gowribidanur Industrial Area, 1st & 2nd Stage, Chikballapur District, Karnataka. (Ext- 724.12 A)

Sample Particulars: One Soil Sample- Near Doddakurugodu Village.

Sl. No.	Test	Result	Protocol
8	Colour	Brown	Practical Manual for Hands on training GKV Bengaluru
9	Sulphur as S, mg/Kg	3.2	Practical Manual for Hands on training GKV Bengaluru
10	Nitrogen as N, %	0.004	Practical Manual for Hands on training GKV Bengaluru
11	Phosphorous as P, mg/Kg	7.43	Practical Manual for Hands on training GKV Bengaluru
12	Potassium as K, mg/Kg	64.35	Practical Manual for Hands on training GKV Bengaluru
13	Copper as Cu, mg/Kg	7.50	Practical Manual for Hands on training GKV Bengaluru
14	Chromium as Cr, mg/Kg	7.91	Practical Manual for Hands on training GKV Bengaluru
15	Zinc as Zn, mg/Kg	18.67	Practical Manual for Hands on training GKV Bengaluru
16	Lead as Pb, mg/Kg	1.94	Practical Manual for Hands on training GKV Bengaluru
17	Nickel as Ni, mg/Kg	10.92	Practical Manual for Hands on training GKV Bengaluru
18	Cadmium as Cd, mg/Kg	<0.1	Practical Manual for Hands on training GKV Bengaluru

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

Verified by
10/3/21

Authorized by
10/03/21

**PROCEEDINGS OF THE ENVIRONMENTAL PUBLIC HEARING HELD
ON 09-01-2014 AT 11AM WITH REGARD TO DEVELOPMENT OF
GOWRIBIDANUR INDUSTRIAL AREA 1ST STAGE AND 2ND STAGE BY
KARNATAKA INDUSTRIAL AREAS DEVELOPMENT BOARD,
GOWRIBIDANUR TALUK, CHIKKABALLAPURA DIST, KARNATAKA**

<u>Public hearing panel members present</u>		
1.	Mrs. Sathyabama, K.A.S. Additional Deputy Commissioner Chikkaballapura Dist, Karnataka	Chairperson
2.	Sri. M.K Prabhudev Senior Environmental Officer, KSPCB, Bangalore (East)	Representing KSPCB
3.	Sri. C.R. Manjunath Environmental Officer, KSPCB, Regional Office, Chikkaballapura.	Convener
Officers and others present:		
4	Representatives of project proponents and their consultants	Annexure-I
5	List of participants	Annexure-II

M/s Karnataka Industrial Areas Development Board has proposed to develop an industrial area i.e., Gowribidanur 1st stage and 2nd stage at different survey nos. of Kudumalakunte village of Gowribidanur Taluk, Chikkaballapura Dist, Karnataka in an extent of 293.17 Ha. The project proponent requires Environmental Clearance from MoEF, Govt of India as per EIA notification dated: 14.09.2006 (as amended till date) as the proposed project falls within 10 km from the interstate boundary and it is required to go through Environmental Public hearing. As per MoEF, Govt of India, Terms of Reference (TOR) Letter F.No.21-65/2012-IA.III and F.No.21-66/2012-IA.III and as per request made by the project proponent vide letter dated: 10/10/2013, the Environmental Public hearing was conducted.

The KSPCB has notified the public hearing notification dated 09.12.2013 in leading news papers Viz., Vijay Karnataka (Kannada) and Deccan Herald (English) and appeared as news items in local news paper viz., "Vijaya Vani", "Vani" and "Vijaya Dwani" on 19/12/2013. M/s. KIADB has acquired 293.17 Ha of land for the development of industrial area in 2 Phases. 1st Phase work was under progress and 3 No.of units are already working. This area is just adjacent to Andhra Pradesh state boundary. Hindhupur and Gollapuram industrial parks currently exist adjacent to the KIADB Industrial area.

The public hearing was conducted at project site on 09.01.2014 at 11:00 AM under the chairmanship of Smt. Sathyabama, Additional Deputy Commissioner, Chikkaballapura, Sri. M.K. Prabhudev, Senior Environmental Officer, KSPCB, Bangalore (East) and Sri, C.R. Manjunath, Environmental Officer, KSPCB, Regional Office, Chikkaballapura, assisted the chairperson in conducting Environmental public hearing.

The Environmental Officer, KSPCB, Chikkaballapura explained the purpose and need for conducting public hearing. The Environmental officer has informed the public gathered to express their views, objections and suggestions on the proposed industrial area with respect to environmental issues.

The presiding officer then directed the representative of KIADB to make presentation on the overview of the project and its environmental issues.

On behalf of KIADB Sri. Hemanth Rajkumar representing M/s. Ramky Enviro Engineers Ltd., Bangalore (EIA consultant) has explained about the project through presentation.

He also explained land use pattern of the proposed Gowribidanur Industrial Area (1st & 2nd Stages).

Summary of the project explained by the Consultant is as follows:

- About 96.6 Ha of land has been acquired for the development of the 1st stage, of which 54 Ha of land has been reserved for industrial development and the remaining land has been reserved for civic amenities viz., Roads, Parks etc and 19 Ha of land is reserved for KSSIDC.
- For the 2nd stage development, about 196 ha of land has been acquired, of which 86 Ha of land is reserved for industrial development and the remaining land has been reserved for civic amenities viz., Roads, Parks etc.
- Latitude and Longitudes of the said industrial area is 13°42' 52" –N and 77°29' 46" –E respectively.
- Nearest railway station – 2 kms from Devarapalli and 9 km from Gowribidanur and as per the information furnished by the project proponent there are no sensitive areas like Biosphere, Reservoir, Forest, River and Archaeological Monuments within 10 km radius.
- The estimated quantity of water required for the 1st and 2nd stage of KIADB Industrial area is 3 MLD and presently the source of water is from bore wells. KIADB is exploring the possibility of utilizing the treated waste water from tertiary treatment plant of BWSSB, Yalahanka.
- KIADB has proposed to provide drains on either side of the roads to convey the effluent of the various industries to the CETP of the industrial area and for which

- Sufficient buffer zone must be maintained in all the industry premises and necessary measures are to be taken to mitigate the pollution to be caused by the industries.
- All industries shall always comply with the provisions of the relevant Acts, and to the guidelines of MoEF.
- Sarojini Mahishi report shall be implemented at all times by the industries in providing employment to the local persons.

Presiding Officer has emphasized the KIADB authorities to adhere to the EMP report during the operation phase of the industries and challenges must be taken up to mitigate the pollution and equal importance shall be given to both developmental and environmental issues.

Meanwhile, requested the public gathered to submit/express their views/objections/advice related to the proposed industrial areas by KIADB.

Views/suggestions/objections raised by the public are listed below,

1. **Sri Chowdappa, Environmentalists, Kudamalakunte:**

He stated that KIADB had given compensation earlier to the land owners and appealed once again to give compensation as per recent **Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013**. He requested the authorities to consider 20% employment to the local people in the proposed Industrial Area and social security

about 3 Acres of land has been reserved. The treated effluent is proposed to be utilized for cooling towers and for green belt development.

- The Hazardous Waste generated during the operation phase of the industrial area is proposed to be handed over to TSDF Dabaspur and for collection of Solid Waste, about 7 Acres of land is reserved.
- The project proponent has submitted the Environmental Management plan to mitigate the pollution during construction and operation phase of the industrial area.

After the completion of presentation, the presiding officer expressed that, Since kudumalakunte village of Gowribidanur Taluk is situated in the border of Karnataka State and Andhra Pradesh State, KIADB has to obtain EC from MoEF, New Delhi. In this regard to encourage the industries, KIADB has acquired about 700 Acres of land and necessary allotment will be made and accordingly,

Many industries are going to be established such as M/s. Reliance Industries and other major garment stitching units etc in this area in future and pertinent to this, as mentioned in the EMP report, all industries shall take up the measures as follows,

- Rain Water harvesting facility must be provided by all the industry authorities in their industry premises irrespective of the quantity.

to the locals by establishing police station. He has also emphasized the project proponent to furnish the information about the source of water to this industrial area and requested not to exploit bore well water of this area for the industrial activities since, people of this surrounding villages are depending on these bore wells for domestic purpose. He requested the project proponent to give compensation to the land owner's at 4 times the prevailing market value.

Air pollution, Noise Pollution and thermal pollution is going to be caused due to the large industries and for these industries, while granting permission he has emphasized to incorporate stringent conditions so that, environment shall be protected at all point of time without causing any pollution to the surrounding environment and also directions shall be given to the industries to comply with the pollution control laws.

He also stated that Hospital facility is to be given to the local villagers, as these are exposed to Air pollution and also co-ordination committee is to be formed by involving local publics, environmentalists, subject experts, Agriculturists etc.,

Sri. Chowdappa, Environmentalist also suggested to give more publicity about the public hearing and more attempts should be made to make surrounding villagers to appear for the hearing since the nearby villagers are going to be affected more due to the development of industrial area.

Also, suggested KIADB to explore the Possibility of using Uttara Pinacini River (Surface water) to the Industrial Area.

2. Sri S.S.Reddy – Social worker, Kudamalakunte:

He has highlighted the proverb of Sir. M. Vishweshwaraiah that, without the agriculture and industrialization, country cannot grow. He requested to extend protection to the women once the industrial area is developed as there are chances of exploitation. All the industry authorities shall be given proper directions in protecting the Environmental and Social issues by showing concern in this regard. He stated that Industries should assist to establish local orphan's centers for old age people and children.

Also, expressed to arrange training programmes to agriculturists about rain water harvesting technologies, as this area is facing acute shortage of ground water and also assist to provide advanced equipments for agriculturists.

3. Sri.Khasim Sab, Karnataka State Praja Vimochana Prachara Samithi,

He welcomed the establishment of Industrial area in the backward area and requested to generate and provide maximum employment of about 20 % to the local people and he also suggested to form a co-ordination committee.

He has also suggested to allot 10% of the land acquired to the local economically backward deserved people for establishing industries under the Govt. schemes such a tiny, small scale, NAREGA, KMDC and NMDC. Sri.Khasim Sab has mentioned that, Rs. 3 Lakhs per Acre has been given in the 1st phase and Rs. 9 Lakhs in the 2nd phase and now it was learnt that, about Rs. 18 Lakhs per Acres is being disbursed and he expressed about 17-18 % of the people could not get their compensation so far for the reasons viz., family dispute and incorrect documents

etc. Hence, he requested to establish the legal cell in the area for assisting the local people to avoid misappropriation.

Sri. Jaganath, Development Officer, KIADB has assured that, after discussing the matter with the Hon;ble Deputy Commissioner, Chikkaballapura to form a co-ordination committee involving formers. Local representatives and officials of the KIADB. Also, Task Force Committee will be formed in Kudumalakunte area to monitor the employment of local people, which has been successfully adopted in Honda company of Kolar.

4. Sri Ashwathappa – Kudamalakunte:

He expressed that, my involvement is there since many years with respect to enhancement of amount for the acquired land when it was Rs. 3.5 Lakhs per Acre. Also, requested to give compensation immediately to the land owners. In this regard Smt. Sathyabama, ADC has informed the KIADB Officials to look into this matter after obtaining the declaration from the Gowribidanur Tahsildar. KIADB Officials have agreed for the same.

He stated that permission should not to be given for Steel Industries and chemical factory as these are highly polluting industries.

5. Sri Sreeramaiah - Kudamalakunte:

Expressed that, it is very happy that, due to development of industrial area many people are going to get jobs but at the same time we are very much scared about

the negative impacts on the environment and also on the public health due to air pollution, noise pollution and their health hazards. He appealed that, the allotment shall be given to non- polluting industries only. In this regard Sri. Jaganath, Development Officer, KIADB has informed that allotment will be made to non-polluting industries such as garments stitching units, where more number of employment can be created.

Finally, the Chairperson concluded the hearing with the following remarks:

The Chairperson informed the gathering that, the compensation as per Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 is not possible for the land acquired already and can be considered for future land acquisition by considering the present Bill which includes, consent of 80% of the people, rehabilitation with infrastructural facilities, providing employment opportunities and releasing of compensation to an extent of 4 times the present market value of the land etc.,

Further, informed that, the Hon'ble Deputy Commissioner has requested the Government to insist the project proponents to mandate that, 5 to 10 Crores or 5% of the total cost of the project under CSR scheme(Corporate Social Responsibility) and to be implemented in a time bound manner in consultation with the District Administration and in the mean time the Presiding Officer has informed the gathering that, there are many responsibilities/commitments on the KIADB and CSR is one among them and they shall take up this project in such a

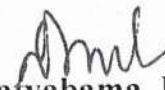
way that, health of the surrounding people should not be effected, there shall not be any impacts on the Environment and Economic Status of the surrounding people must be improved, etc.. as highlighted in the Environmental Management Plan report (EMP).

The Chair person directed the land acquisition officer to settle the pending issues at the earliest as per Law.

The REIA report submitted by the project proponent does not reveal much on the existence of working industries in the 1st phase and environmental impact of the nearby industrial parks of Andhra Pradesh, where large No. of steel units are operating. It is felt necessary to consider the environmental impact of the surrounding industries which already exist.

During Environmental public hearing Sri. Chowdappa, Environmentalist Kudamalakunte has submitted a representation and is enclosed.

Sri. M.K. Prabhudev, Senior Environmental Officer, KSPCB, Bangalore (East), summarized the views expressed during hearing and also informed that opinions/ suggestions/ views expressed are recorded and the proceedings will be forwarded to the MoEF. Finally the hearing was concluded with vote of thanks.


(Smt. Satyabama. K.A.S)
Additional Deputy Commissioner,
Chikkaballapura District
Chikkaballapura

Annexure -I

1. Sri. Jaganath, Development Officer, KIADB, In-charge of Gowribidanur Industrial Area.
2. Sri. Ramakrishna, Deputy Development Officer, KIADB, In-charge of Gowribidanur Industrial Area.
3. Sri. Ravishankar, Asst Engineer, KIADB, In-charge of Gowribidanur Industrial Area.
4. Sri. Hemanth Rajkumar, EIA consultant, M/s. Ramky Enviro Engineers Ltd., Bangalore
5. Sri. Girish, Ramky Enviro Engineers Ltd., Bangalore
6. Ms. Sushma Ijeri, M/s. Ramky Enviro Engineers Ltd, Bangalore.