



27/06/2024

To

The Director

Ministry of Environment and Forest

Regional Office (Southern Zone)

Kendriya Sadan, 4th Floor, 17th Main Road, II Block, Koramangala

Bangaluru – 560 034.

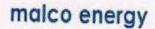
Respected Sir/Madam,

Subject: Submission of Half Yearly Compliance Report for the period of October 2023 to March 2024.

- Ref. 1. Environment Clearance [File No.: J-11011/106/2008-IA II(I)] granted to M/s. NICOMET Industries Limited.
 - 2. Transfer of Environment Clearance titled "Expansion of Cobalt, Copper, Nickel and Sodium Sulphate Unit at Plot No. L-15, L-19 & L- 20 Cuncolim Industrial Estate, Cuncolim, Goa to M/s. NICOMET Industries Ltd." from M/s. NICOMET Industries Ltd. to M/s MALCO Energy Limited.
 - 3.Amendment of Environment Clearance titled "Expansion of Cobalt, Copper, Nickel and Sodium Sulphate Unit by M/s Malco Energy Limited, located at Plot No. L-15, L-19 & L-20 Cuncolim Industrial Estate, Cuncolim, Goa –Amendment in Environmental Clearance" [Proposal No.: IA/GA/INDI/452494/2023 dated 25.12.2023] granted to Malco Energy Limited

MALCO Energy Limited

Works: L-15, L-19, L-20, M-11, Landfill Site, Cuncolim Industrial Estate, Cuncolim, South Goa – 403703, India Website: www.vedantalimited.com





This has reference to the captioned subject and cited Environmental Clearance. Kindly acknowledge the enclosed Six-monthly compliance report to Environment clearance [File No.: J-11011/106/2008-IA II(I)] dated 28.10.2009, Environment Clearance Transfer letter dated 31st Oct 2022 and Environment Clearance amendment letter dated 4th March 2024 for the period of October 2023 to March 2024 of M/s Malco Energy Limited.

Thanking You,

For MALCO ENERGY LIMITED (MEL)

SUMIT GUPTA

Authorized Signatory

MALCO Energy Limited

Works: L-15, L-19, L-20, M-11, Landfill Site, Cuncolim Industrial Estate, Cuncolim, South Goa – 403703, India Website: www.vedantalimited.com

Registered Office: SIPCOT Industrial Complex, Madurai Bypass Road, Thoothukudi (Tamii Nadu) - 628 002 T +91-461 424 2591 F +91-461 424 2829 | Website: www.vedantalimited.com CIN: U31300TN2001PLC069645



Annexure 1

Compliance Report to Environment Clearance issued by Ministry of Environment and Forest for Malco Energy Limited

Environment Clearance No. J-11011/106/2008-IA. II (I) Dated 28.10.2009

Environment Clearance Transfer File. No. J-11011/106/2008-IA-II (I) Dated: 31st October 2022

Environment Clearance Amendment File No. IA/GA/INDI/452494/2023 Dated 04th March 2024

Period October 2023 to March 2024

1) Specific Conditions

Sr. No	Specific Condition	Compliance Status
i)	Environment clearance is subject to the 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	Agreed.
ii)	Ambient air monitoring and Stack Monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 50 mg/Nm³. Volatile organic compounds (VOCs) and acid mist shall be monitored along with other parameters like SPM, RSPM, SO2, NOx. SO2 emissions from process shall also be controlled by connecting the vents of the reactor to the common header and scrubber. The reports for ambient air, stack and fugitive emission shall be submitted to the ministry's regional office at Bangalore, Goa Pollution Control Board & CPCB.	 CPCB has exempted the unit from the condition to carry out online effluent and emission monitoring system, copy of letter is attached herewith as Annexure_1a. The unit is engaged in production of Nickel and Cobalt Metal through hydrometallurgy. Therefore, the operations do not involve any furnace/smelter or fuels that result in emission of gas/dust into atmosphere. The unit has stacks for the Boiler (Fuel: biofuel briquettes/LSHS) and for DG sets (fuel: LSHS). AAQ monitoring is carried out through MoEF accredited laboratory as specified by GSPCB & the reports are furnished to GSPCB regularly. AAQ Report is attached as Annexure_1b. During the reporting period, boiler was in operation and DG set was not in operation.



malco energy

		The boiler stack monitoring was carried out by MoEF accredited laboratory & report is submitted to the GSPCB as per our consent condition and MoEF through half yearly reports. Report is attached as Annexure-1b.
iii)		Not Applicable. • Stacks are equipped with cyclone separator.
	Bag filters shall be provided to process units. In copper cell house, all the cells shall be covered and SO2 emissions from process shall be controlled by connecting the vents of the reactor	CPCB has exempted the unit from the condition to carry out online effluent and emission monitoring system, refer Annexure_1a.
	to the common header to control acid mist emission. The mist emissions from the vent shall be collected and pass-through the scrubber. The scrubbed solution shall be properly treated and recycled to the scrubber. The scrubbed solution shall be properly treated and recycled to the process. Periodic monitoring of vents from condensers shall be carried out and shall be within the permissible limit as per E (P) Act, 1986.	 The raw material (Nickel Cobalt Mixed Hydroxide material) is imported in sealed jumbo bags of 1 MT capacity and charged directly into the reactor. There is no open handling of the solid material and hence there is no dust/fumes emission in the process for the installation of bag filter in the process plant. Further, the Copper production has been stopped and Copper cell house is not in operation.
		operation. Not Applicable
iv)	Arrangements for the control and monitoring of the odorous chemicals shall be made	The unit do not use any odorous chemicals in the process.
v)	Ambient air monitoring and Stack Monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 50 mg/Nm³. The reports for ambient air, stack and fugitive emission shall be submitted to the ministry's regional office at Bangalore, Goa Pollution Control Board & CPCB.	Compliance status is mentioned in #(ii).





vi)	Dust extraction system and dust suppression system like water sprinkling shall be adopted in material handling section to control fugitive emissions. Bag filters shall be provided at ore handling and storage section. Fugitive emissions from concentrate shed, concentrate unloading area shall be controlled by water sprinklers.	reactor. There is no open handling of the solid material. Raw material is stored in covered shed. Hence, there is no dust/fumes
		 For dust suppression system, water sprinkling is carried out for vehicular dust emission in & around the premises.
vii)	Secondary fugitive emissions from Blast furnace shall be controlled within the latest permissible limits issued by the ministry and regularly monitored. Guidelines /Code of Practice issued in this regard by the CPCB shall also be followed. Data on fugitive emissions shall be recorded and maintained.	Received amended EC dated 04.03.2024 The unit do not have blast furnace and hence no secondary fugitive emission. AAQM monitoring is carried out by MoEF accredited laboratory every month.
viii)	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	The unit adopts the practice of water sprinkling to suppress the vehicular dust in & around the premises during handling of raw material & finished products.
ix)	Total water requirement from Goa Industrial Development Corporation (GIDC) water supply shall not exceed 300 m3 /day. No ground water shall be used during expansion of the project. All the effluent shall be treated (forced evaporation) and treated wastewater (condensate) shall be reused in the manufacturing process.	Received Amended EC dated 04.03.2024 The unit consumes water from GIDC for the manufacturing process and the consumption do not exceed the stipulated quantity. No ground water is used.
	Domestic effluent shall be treated in septic tank followed by soak pit and used for green belt development.	 The unit has been adopting the practice of process water treatment in triple effect evaporator to produce anhydrous sodium sulphate crystal, which is sold as by-



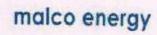


		 product. The condensate generated is reused. We have installed a Sewage Treatment Plant (STP) for treating the domestic effluent and the treated water is being reused for the green belt.
x)	All the wastewater including process washings, boiler blow down and DM plant regeneration etc. shall be treated in the Effluent Treatment plant (ETP) and treated wastewater (condensate) shall be reused in the manufacturing process. All sodium sulphate solution shall be treated in triple effect evaporation plant to separate out sodium anhydrous crystals. Condensate shall be recycled back in the process. The cobalt residue shall be treated in Residue treatment Facility (RTF) to extract cobalt and copper metal to minimum level. 'Zero' discharged shall be adopted and no wastewater shall be discharged outside the premises.	 All the wastewater including process washings, boiler blow down and DM plant regeneration, condensate etc are reused in the manufacturing process and is treated in triple effect evaporator to produce anhydrous sodium sulphate crystal which is saleable product. The process residue undergoes physical and chemical treatment to extract Nickel, Cobalt etc and then stabilised, neutralised, and disposed in secure landfill. No treated process effluent is discharged
xi)	The leachate residue shall be converted into slurry and then transferred to reactors for acid washing in series of reactors to ensure complete dissolution acid soluble as well as water soluble metals. Re-pulped slurry shall be transferred to series of thickness for solid liquid separation. Overflow containing recovered metal shall be treated with lime to precipitate metals and underflow slurry shall be recycled to the exiting leaching process.	outside the premises. Being Complied
xii)	Regular monitoring of influent and effluent water for all the relevant parameters including trace metals (Cu, Cd, Zn, Mn and Ni) shall be ensured and treated wastewater shall meet the norms prescribed by the Goa State Pollution Control Board or described under the E(P) Act whichever are more stringent, and reports shall be submitted six monthly to the Ministry Regional Office at Bangalore, Goa SPCB and CPCB.	The unit is a "Zero Liquid Discharge" facility. As submitted above, the process water is evaporated and converted into sodium sulphate crystals and sold as by-product.





xiii)	The Waste cake generated during the treatment of cobalt raw material in leaching plant shall be stockpiled in specific area and treated in residue treatment facility (RTF) to extract cobalt and copper metal to minimal level. The waste cake from the filter press shall be treated with lime in a mixer to stabilize the residual trace metals and after extraction of metals shall be disposed off to secured captive landfill /authorized recyclers/reprocesses.	Being Complied
xiv)	Hazardous wastes like process sludge shall be disposed at its captive hazardous waste secured landfill facility (SLF). Proper secured landfill shall be constructed as per the CPCB guidelines or proper arrangement shall be made for the proper disposal of hazardous waste in authorized TSDF in advance before the current facilities are exhausted. All the other solid wastes shall be disposed off in the environment friendly manner or provided to authorize recyclers only.	The stabilized process residue is disposed in Secure Landfill Facility. All other solid wastes are disposed-off with
xv)	Membership to authorized TSDF shall be obtained, and a copy of valid authorization shall be submitted to the Ministry.	The unit has obtained membership with authorised TSDF in Goa. A copy of membership is attached herewith as Annexure_1c.
xvi)	As proposed, green belt shall be developed in 44% area in and around the plant as per CPCB guidelines in consultation with Divisional Forest Officer (DFO).	Out of total plant area: 34,434 sq. mts, green belt has been developed in 6031 sq. mts. area in and around the plant premises. Further development is in progress and will be completed by December 2024.





xvii)	All the recommendations made in the charter on corporate Responsibility for Environment Protection (CREP) shall be strictly implemented.	 The recommendations are implemented
xviii)	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary strictures to be removed after the completion of the project.	The expansion project was completed by earlier owner in the year 2010 and no further construction is happening within the premise and hence no labour is staying in the company premises. No temporary structures in the premises of the unit.

2) General Conditions

Sr. No	General Condition	Compliance Status	
i)	The project authorities must strictly adhere to the stipulations made by the Goa Pollution Control Board (GPCB) and the State Government.		
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed	
iii)	The gaseous emissions from various process units shall conform to the load/mass-based standards notified by this Ministry on 19th May 1993 and standards prescribed from time to time. The Goa Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	The CEMS is not applicable as per order no B-33014/7/2016/PCI-II/7530 dated 19.01.2016 from CPCB. (Refer annexure_1a). As such interlocking facilities not applicable.	





iv)	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO2 and NO2 are anticipated in consultation with the Goa Pollution Control Board. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bangalore and Goa Pollution Control Board, CPCB once in six months.	AAQ monitoring is being carried out in consultation with and as per CTO conditions of GSPCB.	
v)	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Further, specific measures like water sprinkling around the coal stockpiles and asphalting or concreting of the roads shall be done to control fugitive emissions.	Being Complied There is no fugitive emission in the plant. Coal is not used in the process. Water sprinkling done to control dust emission during vehicular movement.	
vi)	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Not Applicable The unit is a "Zero Liquid Discharge" facility. As submitted above, the process water is evaporated and converted into sodium sulphate crystals and sold as by-product. The treated wastewater from STP is used for green belt development.	
vii)	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	Noise control measures are provided & periodical monitoring is carried out and is found that noise levels are within limits. Noise monitoring is carried out through MoEF accredited laboratory as specified by GSPCB & the reports are furnished to GSPCB regularly. AAQ Report is attached as (Annexure_1e).	



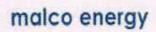


viii)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Reports of few employees has been attached in (Annexure_1f).
ix)	The Company shall develop rainwater harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	Compliance in Progress • The unit has been developing a rainwater harvesting structure in consultation with experts and expected to complete by November 2024.
		Being Complied
x)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. Suggestions made during the public hearing shall be implemented.	 Environment measures and safeguards have been implemented to prevent pollution. CSR activities like Nand Ghar is implemented in plant area to support childcare & women development through modern technology, improved education, sanitation & hygiene. Public hearing for the project was exempted.
xi)	As proposed, Rs. 1.50 Crores earmarked towards the capital cost and recurring cost/annum towards the environmental pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Environmental protective measures are implemented. These includes covered sheds, stacks, ETP, STP etc. Photos showing various environment protective measures carried out after taking over of assets is attached as (Annexure_1g). The unit has carmarked dedicated environment budget for managing the
xii)	A copy of clearance letter shall be sent by the proponent to be concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body, and the local NGO, if any, from whom suggestions / representations, if any,	recurring expenditures. Being Complied The EC letter is put up on company web site.





	were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	
xiii)	The project proponent shall upload the status of compliance of the stipulated environment clearance 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 the MOEF at Bangalore, the respective Zonal Office of CPCB and the Goa SPCB. The criteria pollutant levels namely, SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Compliance status is sent to regional Office of MoEF and GSPCB & and updated on website periodically. Being complied Digital display board stating pollutant level at main Gate is installed.
xiv)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by email) to the Regional Office of MOEF the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore / CPCB / Goa SPCB shall monitor the stipulated conditions.	Being Complied The unit has submitted six monthly reports on the status of the compliance of the stipulated environmental conditions to Regional Office of MOEF the Zonal Office of CPCB at Bangalore and the GSPCB.
xv)	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 environmental conditions and shall also be sent to the Regional Office of the MOEF at Bangalore by e-mail.	The environment statement (Form-V) for the financial year is submitted to GSPCB on 19th August 2023 and same is displayed on website. https://www.sterlitecopper.com/sustainability/environment-compliance/ Copy of Form-V is sent to Regional Office of the MoEF is attached as (Annexure 1h).





xvi)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Goa SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the regional office.	Complied by earlier owner.
xvii)	Project authorities shall inform the Regional Office at Bangalore as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied by earlier owner.

-----END-----



केन्द्रीय प्रदूषण नियंत्रण बोर्ड CENTRAL POLLUTION CONTROL BOARD (पर्यावरण एवं वन मंत्रालय, भारत सरकार)

(MINISTRY OF ENVIRONMENT & FORESTS, GOVT OF INDIA)

SPEED POST

B-33014/7/2016/PCI-II/ 2530

January 19, 2016

To

Nicomet Industries Ltd. L-15/19/20, Cuncolim, Industrial Estate Cuncolim, Goa-403703

Sub.: Withdrawal of Notice under Section 5 of the Environment (Protection) Act, 1986 regarding installation of on-line effluent and emission monitoring system

Ref.: Notice under Section 5 of the Environment (Protection) Act, 1986 dated July 23, 2015 regarding installation of on-line effluent and emission monitoring system

WHEREAS, integrated steel plants and sponge iron units are identified as one of the 17 categories of highly polluting industries which have been discharging environmental pollutants directly or indirectly into the ambient air and water, having potential threat to cause adverse effect on the water and air quality;

WHEREAS, the Central Government has notified the standards for discharge of environmental pollutants from various categories of industries under the Environment (Protection) Act, 1986 and the rules framed there under;

WHEREAS, there is need to inculcate habit of self-monitoring within the industries for complying with the prescribed standards and this can be achieved by the methods like installing online effluent and emission monitoring devices;

WHEREAS, for strengthening the monitoring and compliance through self-regulatory mechanism, online source emission and effluent monitoring systems need to be installed and operated by the industries on 'polluter pays principle';

WHEREAS, a direction under section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 was issued on February 05, 2014 to all the State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs) for installation of online emission monitoring system w.r.t. PM and SO₂ parameters & online effluent monitoring system w.r.t. pH, flow, BOD, COD and TSS in iron & steel industries;

WHEREAS, effluent parameters phenol and cyanide were added for online installation in iron and steel plants with by-product recovery type coke ovens;

WHEREAS, considering the requests/ representations received from industries/ industrial associations/ SPCBs / PCCs, an extension of time up to June 30, 2015 for installation of online monitoring systems was granted vide direction dated March 02, 2015 under section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981;

WHEREAS, a letter vide dated May 29, 2015 was issued by the Chairman CPCB to all the SPCBs/ PCCs informing that no further extension of time will be given after June 30, 2015 and withdrawal of consent to operate along with forfeiture of bank guarantee of non-complying units;

contd...

WHEREAS, concerned SPCB/ PCC issued directions under section 33A of the Water (Prevention & Control of Pollution) Act, 1974 and section 31A of the Air (Prevention & Control of Pollution) Act, 1981 to install the online monitoring system by June 30, 2015 and to submit bank guarantee of 100% of the cost of online emission & effluent monitoring system;

WHEREAS, the Ministry of Environment & Forests, Government of India, vide Notifications No. S. O. 157 (E) of 27.02.1996 and S. O. 730 (E) dated 10.07.2002, has delegated the powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board, to issue directions to any industry or any local body or any other authority for violations of the standards and rules notified under the Environment (Protection) Rules, 1986 and amendment thereof;

WHEREAS, Show Cause Notice under Section 5 of Environment (Protection) Act 1986, was issued on July 23, 2015 to all integrated iron & steel plants and sponge iron units to show cause as to why the unit should not be closed down if, the unit has not complied fully with the directions issued w.r.t. installation of online emission & effluent monitoring system by June 30, 2015. Further it was directed to submit documentary evidence regarding status of installation and connectivity;

WHEREAS, your representation dated September 03, 2015 was received in response to above mentioned notice, wherein it was requested to exempt you from installing online monitoring system as the unit is not among 17 category of highly polluting industries. The response was examined and it was noted that the unit doesn't fall under 17 category of highly polluting industries;

NOW, therefore in view of above the show cause notice issued under Section 5 of the Environment (Protection) Act, dated July 23, 2015 is withdrawn.

(Arun Kuhrar Mehta) Chairman

4270



malco energy

02/11/2023

To The Member Secretary Goa State Pollution Control Board Saligao Bardez 403114.

Subject: Compliance of Consent to Operate for Malco Energy Limited (MEL) for the month of October 2023.

Reference:

Consent Order No. for Industry: 12/2022-PCB/1466026/R00010846, dated:30/01/2023 Consent Order No. for CLSF: 12/2022-PCB/1493991/R00010971, dated:30/01/2023

Respected Madam,

With respect to condition no 4, sub-condition (xii), of the above stated in Consent to Operate granted to Malco Energy Limited (MEL), we have enclosed herewith the Ambient Air Quality Monitoring report for the month of october 2023.

Thanking You,

For MALCO ENERGY LIMITED (MEL)

SUMIT GUPTA

Authorized Signatory

MALCO Energy Limited

Works: L-15, L-20, M-11, Landfill Site, Cuncolim Industrial Estate, Cuncolim, South Goa – 403703, India Website: www.vedantalimited.com



ISO 45001:2018

(UNIT OF MINERAL ENGINEERING SERVICES)

Recognised by BIS, FSSAI, ISO:45001:2018 Cortified Laboratory Recognised by MoEFCC(CPCB) under E(P) Act 1986 & recognition is valid upto 23.05.2025

TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Report No: N19823102

Name of the Project

: Malco Energy Limited, (Represented by Shri. Sumit Gupta)

Plot No. L-15/19/20, Cuncolim Industrial Estate, Cuncolim, Salcete Goa Sample Collected by : Environmental Laboratory Representaive

Station at & Code

: A1 - Behind Nickel Plant

Duration

1

14

14

13

1 1

: 24 Hrs

Lab Code

: N/23/10/3-198

Issue Date

: 27.10.2023

Reference IS 5182 & Lab SOP

Date of Sampling	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), μg/m ³	РМ _{10,} (µg/m³)	PM _{2.5,} (μg/m³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), μg/m ³
14.10.2023	9	11	48	24	<20	<1
Limits for Industrial , Residential, Rural and other Areas	80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lead (Pb), μg/m³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), μg/m ³
14.10.2023	0.15	<0.1	<0.5	<0.5	0.26	23
Limits for Industrial , Residential, Rural and other Areas	1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084. Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbng@gmail.com, www.envtest.in



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Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory Recognised by MoEFCC(CPCB) under E(P) Act 1986 & recognition is valid upto 23.05.2025

TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Report No: N19923102

Name of the Project

: Malco Energy Limited, (Represented by Shri. Sumit Gupta)

Plot No. L-15/19/20, Cuncolim Industrial Estate , Cuncolim, Salcete Goa Sample Collected by : Environmental Laboratory Representaive

Station at & Code

: A2 - Near Crystallization & Evaporation

Duration

: 24 Hrs

Lab Code

: N/23/10/3-199

Issue Date

27.10.2023

Reference IS 5182 & Lab SOP

Date of Sampling	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	РМ _{10,} (µg/m³)	PM _{2.5,} (μg/m³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), μg/m ³
14.10.2023	7	10	40	25	<20	<1
Limits for Industrial , Residential, Rural and other Areas	80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), μg/m ³
14.10.2023	0.13	<0.1	<0.5	<0.5	0.20	25
Limits for Industrial , Residential, Rural and other Areas	1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note: * Parameters monitored for period of 1 hr

H'launday

Govt, Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084. Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbng@gmail.com, www.envtest.in



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Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory Recognised by MoEFCC(CPCB) under E(P) Act 1986 & recognition is valid upto 23.05.2025

TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Report No: N20023102

Name of the Project

: Malco Energy Limited, (Represented by Shri. Sumit Gupta)

Plot No. L-15/19/20, Cuncolim Industrial Estate, Cuncolim, Salcete Goa Sample Collected by : Environmental Laboratory Representaive

Station at & Code

: A3 - Near Main Gate

Duration

: 24 Hrs

Lab Code

: N/23/10/3-200

Issue Date

: 27.10.2023

Reference IS 5182 & Lab SOP

Date of Sampling	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), μg/m ³	РМ _{10,} (µg/m³)	РМ _{2.5,} (µg/m³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), μg/m ³
14.10.2023	10	12	53	27	<20	<1
Limits for Industrial , Residential, Rural and other Areas	80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lead (Pb), µg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), μg/m ³
14.10.2023	0.18	<0.1	<0.5	<0.5	0.24	28
Limits for Industrial , Residential, Rural and other Areas	1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note: * Parameters monitored for period of 1 hr

H' Carenda

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbng@gmail.com, www.envtest.in



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ISO 45081:2018

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Report No: N20123102

Name of the Project

: Malco Energy Limited, (Represented by Shri. Sumit Gupta)

Plot No. L-15/19/20, Cuncolim Industrial Estate , Cuncolim, Salcete Goa

Station at & Code

: A4 - Backside of Raw material washing Unit area

Duration

: 24 Hrs

Lab Code

: N/23/10/3-201

Date of Report

27.10.2023

Reference IS 5182 & Lab SOP

Date of Sampling	Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), μg/m ³	PM _{10,} (μg/m³)	PM _{2.5,} (μg/m³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), μg/m ³
14.10.2023	10	11	45	22	<20	<1
Limits for Industrial , Residential, Rural and other Areas	80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lead (Pb), μg/m³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), μg/m ³
14.10.2023	<0.1	<0.1	<0.5	<0.5	0.11	22
Limits for Industrial , Residential, Rural and other Areas	1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084. Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbng@gmail.com, www.envtest.in





01/02/2024

To The Member Secretary Goa State Pollution Control Board Saligao Bardez 403114.

Subject: Compliance of Consent to Operate for Malco Energy Limited (MEL) for the month of January 2024.

Reference:

Consent Order No. for Industry: 12/2022-PCB/1466026/R00010846, dated:30/01/2023 Consent Order No. for CLSF: 12/2022-PCB/1493991/R00010971, dated:30/01/2023.

Respected Madam,

With respect to condition no 4, sub-condition (xii), of the above stated in Consent to Operate granted to Malco Energy Limited (MEL), we have enclosed herewith the Ambient Air Quality Monitoring report for the month of January 2024.

Thanking You,

For MALCO ENERGY LIMITED (MEL)

SUMIT GUPTA

Authorized Signatory



VSO 45001:2018

(UNIT OF MINERAL ENGINEERING SERVICES)

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TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Report No: N4224012

Name of the Project

: Malco Energy Limited, (Represented by Shri. Sumit Gupta)

Plot No. L-15/19/20, Cuncolim Industrial Estate, Cuncolim, Salcete Goa

Sample Collected by : Environmental Laboratory Representative

Station at & Code

: A1 - Behind Nickel Plant

Duration

: 24 Hrs

Lab Code

: N/24/01/2-0042

issue Date

: 29.01.2024

Reference IS 5182 & Lab SOP

FIGURE TO COT OF THE	Total Control of the									
Date of Sampling	Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), pg/m ³	PM _{20,}	PM _{2.5,} (μg/m³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m³				
05.01.2024	12	14	54	28	<20	<1				
Limits for Industrial, Residential, Rural and	80	80	100	60	400	5				
other Areas	24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual				

Date of Sampling	Lead (Pb), μg/m³	Nickel (Ni), ug/m³	Arsenic (As), ag/m³	Benzo(a) Pyrene (BaP), ng/m²	Carbon Monoxide* (CO), mg/m³	Ozone* Ozone*
05.01.2024	0.19	<0.1	<0.5	<0.5	0.32	25
Limits for industrial ,	1.0	20	- 6	1	4	180
Residential, Rural and other Areas	24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note: * Parameters monitored for period of 1 hr

ARSHIYA KOUSAR Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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ISO 45001;2018

(UNIT OF MINERAL ENGINEERING SERVICES)

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TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Report No: N4324012

Name of the Project

: Malco Energy Limited, (Represented by Shri. Sumit Gupta)

Plot No. L-15/19/20, Cuncolim Industrial Estate, Cuncolim, Salcete Goa

Sample Collected by : Environmental Laboratory Representaive

Station at & Code

: A2 - Near Crystallization & Evaporation

Duration

: 24 Hrs

Lab Code

: N/24/01/2-0043

Issue Date

: 29.01.2024

Reference IS 5182 & Lab SOP

Date of Sampling	Sulphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), µg/m³	РМ _{10,} (µg/m³)	РМ _{25.} (µg/m²)	Ammonia (NH ₃), µg/m³	Bearzene (C ₆ H ₆), µg/m³			
05.01.2024	11	12	51	25	<20	<1			
Limits for Industrial,	80	80	100	60	400	5			
Residential, Rural and other Areas	24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual			

Date of Sampling	Lead (Pb), µg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrena (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (Ο ₃), μg/ω ³
05.01.2024	0.21	<0.1	<0.5	<0.5	0.35	27
Limits for Industrial ,	1.0	20	6	1	4	160
Residential, Rural and other Areas	24 Hrs	Annual	Annusi	Annual	1 Hr	1 Hr

Note: * Parameters monitored for period of 1 hr

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084. Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbng@gmail.com, www.envtest.in

Worter: This report is subject to the terms and conditions mentioned overleaf.



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TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Report No: N4424012

Name of the Project

: Maico Energy Limited, (Represented by Shri. Sumit Gupta)

Plot No. L-15/19/20, Cuncolim Industrial Estate , Cuncolim, Salcete Goa Sample Collected by : Environmental Laboratory Representaive

Station at & Code

: A3 - Near Main Gate

Duration

: 24 Hrs

Lab Code

: N/24/01/2-0044

Issue Date

: 29.01.2024

Reference IS 5182 & Lab SOP

Date of Sampling	Suiphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), µg/m³	РМ _{10,} (µg/m³)	PiVI _{2.5,} (µg/m³)	Ammonia (NH ₃), µg/m³	Benzene (C _c H _c), µg/m²
05.01.2024	7	11	56	32	<20	<1
Limits for Industrial,	80	89	\$00	58	400	5
Residential, Rural and other Areas	24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Ansual

Lead (Pb), µg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrone (BaP), ng/Es ³	Carbon Monoxide* (CO), mg/m³	Ozone" (O ₃), μg/m³
0.23	<0.1	<0.5	<0.5	0.28	23
1.0 24 Hrs	20 Annual	6 Angual	1 Annual	4 1 Hr	180 1 Hr
	µg/m³ 0.23 1.0	μg/m ³ ng/m ³ 0.23 <0.1 1.0 20	μg/m ³ ng/m ³ (As), ng/m ³ 0.23 <0.1 <0.5 1.0 20 6	μg/m ² ng/m ² (As), ng/m ³ (BaP), ng/m ³ 0.23 <0.1 <0.5 <0.5 1.0 20 6 1	Lead (Pb), μg/m³ Nickel (Ni), ng/m³ Arsenic (As), ng/m³ Benzo(a) Pyrene (BaP), ng/m³ Monoxide* (CO), mg/m³ 0.23 <0.1

Note: * Parameters monitored for period of 1 hr

ARSHIYA KOJUSAR Dy. T.M. - Chemical

Govt, Analyst / Authorised Signatory

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(UNIT OF MINERAL ENGINEERING SERVICES)

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Report No: N4524012

Name of the Project

: Malco Energy Limited, (Represented by Shri. Sumit Gupta)

Station at & Code

Plot No. L-15/19/20, Cuncolim Industrial Estate, Cuncolim, Salcete Goa : A4 - Backside of Raw material washing Unit area

Duration

: 24 Hrs

Lab Code

: N/24/01/2-0045

Date of Report

; 29.01.2024

Reference IS 5182 & Lab SOP

Meleterice 10 0 tot or r	-en aor					
Date of Sampling	Salphur Dioxide (SO ₂), µg/m³	Nitrogen Dioxide (NO ₂), µg/m³	PM _{10,} {µg/m³)	PfA _{2.5,} (μg/m³)	Ammonia (NH ₃), µg/m³	Beazene (C ₅ H ₆), µg/m ³
05.01.2024	11	13	48	29	<20 ⋅	<1
Limits for industrial, Residential, Rural and other Areas	80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annuai

Date of Sampling	Lead (Pb), µg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m ³	Benzu(z) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Ozone* (O ₂), μg/m³
05.01.2024	<0.1	<0.1	<0.5	<0.5	0.25	20
Limits for Industrial,	1.0	20	6	1	4	1B0
Residential, Rural and other Areas	24 Hrs	Annual	Annuel	Annual	1 H r	1 Hr

Note: * Parameters monitored for period of 1 hr

ARSHIYA KOUSAR Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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President

A.J. D'Souza Treasurer

Annexure_1d

CREP recommendations and compliance status

Sr. No.	Issue	Status of Action Taken
1	Waste minimization: Waste minimization measures and for adoption of clean technologies.	Waste minimization circles have been formed to implement waste minimization measures and for adoption of clean technologies.
2	Reduction of Water Consumption	Water flow meters are installed to measure actual consumption. Awareness training given to the employees for water conservation and minimization of consumption.
3	Compliance of Standards: Monitoring of Compliance status of the industry	Employed qualified and well-trained staff for O & M of the facility. Monitoring pollution loads in core areas. Separate Energy meters provided for the operating facilities. Periodic monitoring of health & safety of workers in the industry are carried out.
4	Wastewater treatment & reuse: Adopted Wastewater treatment & reuse	Process water generated is treated by triple effect evaporation under vacuum. The treated water will come out as condensate and reused in the main process stream.
5	Bye-product recovery in the form of Sodium Sulphate	Sodium Sulphate crystals is recovered as a by- product from evaporation of wastewater.
6	Ambient Air Quality Standards: Maintenance of ambient air quality keeping health aspects in view which is applicable to the hydro- metallurgical industries	Since there is no equipment like blast furnace or other highly polluting machinery in the factory, emission levels are too low. It is monitored by MoEF recognized agency and report submitted to GSPCB periodically.
7	Noise Standards: Maintenance of Cost-effective engineering and administrative measures in keeping health aspects which is applicable to the hydro-metallurgical industries	Occupational noise standards have already been developed keeping health aspects in view which is applicable to the hydro-metallurgical industries. Noise control measures implemented in high noise areas. Acoustic room provided for DG set. Personnel Protective Equipment's like Ear Plugs/Earmuffs are provided for employees as per requirement. Periodic monitoring of noise level done in factory premises.
8	Solid Waste Management: a) Management plan of solid / hazardous waste	Process residue generated is disposed off in CHWTSDF after neutralization and stabilization

9	b) Waste management in the process Utilization of Waste:	Process residue after extracting maximum metallic values is stabilized with lime and disposed in secured land fill. Liquid waste which is lean Sodium Sulphate solution is evaporated and converted into Sodium Sulphate crystals which is sold as a byproduct. Condensate is recycled back to the process Waste oil and used oil are being sold to
	Maximize the reuse of waste and exploring alternative uses of wastes	authorized re-users/ recyclers registered with MoEF / CPCB. Sodium sulphate solution generated from SX plant is processed in triple effect evaporation plant to separate out sodium sulphate salt in the form of anhydrous crystals. Condensate is recycled back in the process.
10	Disposal: Management of wastes generated from the proposed as well as existing plant operative process belong to stockpiled waste cake.	Stockpiled waste residue has already been processed, stabilized, and disposed off in CHWTSDF. No more stockpiled residues left. Process residue generated from current operation is stabilized with lime after extracting maximum metallic values and disposed off in CHWTSDF after stabilization.
11	Action Plan to Control and Monitor Secondary Figurative Emissions from the source	Manual water sprinkling through pipes is done to control fugitive emissions
12	Environmental Management Plan during Operation: Air Pollution sources from the process	Stack monitoring for boiler is done periodically by MoEF recognized Laboratory and report submitted to GSPCB on regular basis. Ambient air monitoring is done periodically by MoEF recognized Laboratory and report submitted to GSPCB.
13	Control of Particulate Emissions: Minimization of the fugitive losses within the process areas	Proper ventilation systems provided for minimizing the fugitive losses within the process areas. Manual water sprinkling through pipes is done to control fugitive emissions.
14	Control of Fugitive Emissions: Manufacturing units, Waste heaps (Dust), Dust Emissions due to Vehicular Movement	 Turbo ventilators provided better ventilation. Man coolers provided in process area. Sprinkling of Water through pipes done to minimize dust emissions.
15	Stack Gas Monitoring: Monitoring of stack gas emissions from the sources	The emissions from the stacks monitored by MoEF recognized agency and report submitted to GSPCB periodically.
16	Ambient Air Quality Monitoring: Monitoring of Ambient Air Quality in different locations	Ambient air quality in different locations monitored by MoEF recognized Laboratory and report submitted to GSPCB periodically.

17	Housekeeping:	To reduce the generation of fugitive dust from
	Control of fugitive dust	vehicle movement and improve overall house-
	emissions	keeping, water sprinkling done through pipes.
18	Green Belt:	Green belt development is done in 6031 square
	Canopy based green belt	meter area. Further development in progress.
	around the periphery of plant	



malco energy

02/11/2023

To The Member Secretary Goa State Pollution Control Board Saligao Bardez 403114

Subject: Compliance of Consent to Operate for Malco Energy Limited (MEL) for the month of October 2023.

Reference:

Consent Order No. for Industry: 12/2022-PCB/1466026/R00010846, dated:30/01/2023

Respected Madam.

With respect to condition no. 4 sub-condition no.(x) of the above stated in Consent to Operate granted to Malco Energy 1 imited (MFL), we have enclosed herewith the noise level report for the month of October 2023.

Thanking You.

For MALCO ENERGY LIMITED (MEL)

SUMIT GUPTA

Authorized Signatory

MALCO Energy Limited

Works: L-15, L-19, L-20, M-11, Landfill Site, Cuncolim Industrial Estate, Cuncolim, South Goa -- 403701, India Website: www.vedantalimited.com



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TEST REPORT

NOISE LEVEL DATA

Project

: Malco Energy Limited, (Represented by Shri. Sumit Gupta)

Plot No. L - 15/19/20, Cuncolim Industrial Estate , Cuncolim, Salcete Goa

Particulars of sample collected : Sound Levels

Sample Collected by

: Environmental Laboratory Representative

Date of sample collection

: 14.10.2023

Date of sample receipt

: 16.10.2023

Issue Date

: 27.10.2023

Code			Day			Night	
No.	Monitoring stations	L _{min}	Leq	L max	L _{min}	Leq	L max
	Core Zone	MI					
N1	Behind Nickel Plant	36.3	49.9	53.8	34.0	40.6	44.8
N2	Near Crystallization & Evaporation	37.4	49.3	54.0	35.0	40.7	44.6
N3	Near Main Gate	39.0	50.1	54.7	34.1	40.1	44.7

Permissible Limits of Ambient Noise Levels

as per CPCB Guidelines

Leq. Limit dB(A)

Day	Night
75	70
65	55
55	45
	75 65

T.M. · CHEMICAL

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084. Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbng@gmail.com, www.envtest.in



malco energy

01/02/2024

To The Member Secretary Goa State Pollution Control Board Saligao Bardez 403114.

Subject: Compliance of Consent to Operate for Malco Energy Limited (MEL) for the month of January 2024.

Reference:

Consent Order No. for Industry: 12/2022-PCB/1466026/R00010846, dated:30/01/2023

Respected Madam,

With respect to condition no. 4 sub condition no.(x) of the above stated in Consent to Operate granted to Malco Energy Limited (MEL), we have enclosed herewith the noise level report for the month of January 2024.

Thanking You,

For MALCO ENERGY LIMITED (MEL)

SUMIT GUPTA

Authorized Signatory



ENVIRONMENTAL LABORATORY

JEO 45001:2016

(UNIT OF MINERAL ENGINEERING SERVICES)

Recognised by BIS, FSSAI, ISO:45091:2018 Certified Laboratory
Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

NOISE LEVEL DATA

Project

: Malco Energy Limited, (Represented by Shri. Sumit Gupta)

Plot No. L. - 15/19/20, Cuncolim Industrial Estate , Cuncolim, Salcete Goa

Particulars of sample collected : Sound Levels

Sample Collected by : Environmental Laboratory Representative

Date of sample collection : 05.01.2024
Date of sample receipt : 06.01.2024
Issue Date : 29.01.2024

Rempting & Test Method : IS:9989

Code	ang & lest Method	: 15:9989	Day			Night	
No.	Monitoring stations	L _{euto}	Leq	L max	i _{-unie}	Lea	£ mex
	Core Zone						
Nŧ	Behind Nickel Plant	41.0	51.0	56.6	34.0	41.5	47.5
N2	Near Crystalitzation & Evaporation	38.0	49.6	54.8	34.6	41.4	45.2
N3	Near Main Gate	40.0	61.1	55.3	34.1	40.7	46.7

Permissible Limits of Ambient Noise Levels

as per CPCB Guidelines

Leq. Limit dB(A)

DayNightIndustrial Area7570Commercelal Area6555Residential Area5545

ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govi, Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbag@gmail.com, www.envtest.in

MANGUIRISH OCCUPATIONAL HEALTH SERVICES

Shop No. 17,18,19 1st Floor, Royal Chambers, Above IDBI Bank, Tisk Ponda- Goa.

Ph: - 0832-2314397

ANNUAL HEALTH CHECK-UP PERSONAL HISTORY RECORD

Name : Mr.	Bulu Khandayataray	Date of Exam : 26/10/2023		
Address : Margao - Goa		Gender : Male		
		Blood Group: 'B'Rh Positive		
Company:	Vedanta (Peregrine Security)	Age : 27 Years		
Marital Status:	Married	Children : 01		

HISTORY OF :

Identification Marks : Black mole on the right wrist.

Frequent cold /sneezing	Nil	Recent loss of weight	Nil
Urinary Disturbances	Nil	Impaired hearing	Nil
Chronic Cough	Nil	Ear Discharge	Nil
Shortness of breath	Nil	Backache	Nil
Chest pains / Pressure	Nil	Joint Pain	Nil
Allergy to drugs / chemicals	Nil	Intestinal Trouble	Nil
Frequent Headaches	Nil	Epilepsy	Nil
Visual Disturbances	Nil	Swelling of Legs	Nil
Vertigo	Nil	Operations	Nil

Details of above:

PAST HISTORY:

Disease	Self	Father	Mother	Others
1. Heart disease / Hypertension	Nil	Nil	Nil	Nil
2. Diabetes Mellitus	Nil	Nil	Nil	Nil
3. Tuberculosis	Nil	Nil	Nil	Nil
4. Bronchial asthma	Nil	Nil	Nil	Nil
5. Epilepsy	Nil	Nil	Nil	Nil
6. Arthritis / Rheumatism	Nil	Nil	Nii	Nil
7. Cancer	Nil	Nil	Nil	Nil
8. Kidney Disorder	Nil	Nil	Nil	Nil
9. Liver diseases	Nil	Nil	Nil	Nil
10. Skin diseases	Nil	Nil	Nil	Nil
11. Allergies	Nil	Nil	Nil	Nil
12. Accidents	Nil	Nil	Nil	Nil
13. Any other	Nil	Nil	Nil	Nil

Mr. Bulu Khandayataray

Occupational History

1411	oulu Knanday	Setonous care					-	Oct	and the most	ional History	
Establishment					Occupation			Period			
								Fron	1	То	
1											
2	Vedanta (Peregrine Security)				Security			3 Years		Till date	
ANTHROPO	METRY		Heigh	t: 168 cm.	Weigh			ght: 70 Kg.	nt: 70 Kg.		
Chest	Insp. 96 c	m	Exp. 9		Abdominal Girth: 91 cm						
Skin: NAD	Windship	5/12	1 2000	Sellentill	Nails: NAD			D1111111	Anemia: No		
EYES						11.01.0				Providental American	
	Vision	Vision Wit		thout glasses		With glasses			Squint: No		
		-	R L		R L		В				
	Near	N/6	N/6	B N/6	м	-	+		Colou	r Blindness : No	
	Far	6/6	6/6	6/6			-		COIOU	a Garaness . Hu	
Ear :	NAD			IAD		1	L	NAD			
Nose: NA	Automic Common C	1000000	223 - 23					ostril- NAD)		
Mouth: NA				Sno	ech- I	NAD		harvnx- N			
Marana Marana	& ENDOCRINI	1000000	ymph no	3578767	Thyroid: NAD				Others: NAD		
RESPIRATORY			Chest: Clear				inyt	Breath sound: Normal		English Neght Manage	
			Rales: Nil					Ronchi: Nil			
CARDIOVAS	CULAR		ulse: 80	127	Blood Pressure: 122/82 mmHg			11/07/2007	Murmur: Nil		
ABDOMEN	AN CHARLEST (100	Tenderness: Nil Ascites: Nil				, SE 111111118		Other masses: Nil		
			Liver: NAD Spleen: NAD						Hernia: Nil		
GENITO URINARY			External Genitalia: NAD Hydrocoele/Swelling:				r: Nil		Discharge: Nil		
		1.0		ual History: NA				20.0000		z z z z z z z z z z z z z z z z z z z	
MUSCULOSKELETAL Posture: Normal								Spine	: NAD	<u> </u>	
			Bones: NAD					-	Joints: NAD		
NERVOUS S	YSTEM	0	Cranial Nerves: NAD					Motor system: NAD			
2-2-0-0-2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			Sensory system: NAD					-	Reflexes: NAD		
SPIROMETRY: Normal					X-RAY: WNL						
AUDIOMET	RY: Normal					ECG	· wi	NL			
OTHERS: N	AD										
BLC	OD INVESTIGA	TION		N	NORMAL VALUES				URINE EXAMINATOR		
Hemoglobin: 15.0		15.0	M:13-18, F:12-16 g%					Quantity: 5 ml			
Total W.B.C	tal W.B.C. : 7,100		5,0	5,000-10,000 Cells/ Cu. Mm				Colour: Colorless			
Differential WBC:N- 60		50	45 to 70 %					Odour: Aromatic			
L- 36		36	25 to 45 %					Specific Gravity: 1.010			
E- 02)2	1 to 4 %					Reaction: Acidic			
M- 02)2	2 to 8 %					PH: 6.0			
B- 00			0 to 1 %				Sugar: Nil				
E.S.R (Westergren): 06			M:0 to 15 & F:0 to 20 mm at the end of one hour				Prote	Protein: Nil			
Random Glucose Level: 89			Up to 150 mg %				Micro: PC - Nil, Epi - Nil , RBC- Ni				
Creatinine : 0.7			0.5 to 1.3 mg%				Crystals- Nil				

Medically Fit REMARKS:

Reviewed an 31 10 2023

DR. GOKULDAS H. MANGESHKAR Reg. No. GMC 3440, MBBS, DOIH Occupational Health Physician



MANGUIRISH OCCUPATIONAL HEALTH SERVICES

Shop No. 17,18,19 1st Floor, Royal Chambers Above IDBI Bank, Tisk, Ponda - Goa. Cell: 9890544691

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Normal

an

DR. GOKULDAS H. MANGESHKAR Reg. No. GMC 3440, MBBS, DOIH Occupational Health Physician

MANGUIRISH

Ponda

Last name

Khandayataray

First name

Bulu

Birth date

26/10/23

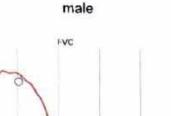
ld

33007

Age

27 yrs

Sex





Height

168 cms

Weight

70 kgs

Ethnic Group

south indian

Smoker

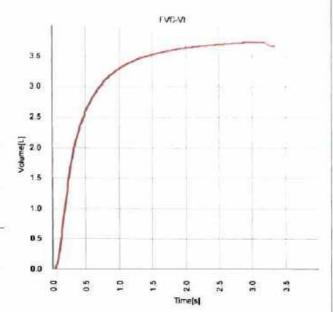
No

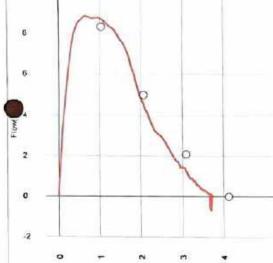
Time Stamp

26/10/2023

Prediction method

Knudson





		Anametri						
	Param	Unit	Predicted	%PRED	BEST			
	FVC	t.	4.13	90%	3.73			
	FEV1	1.	3.43	94%	3 23			
	FEV05	L	0.00	0%	2.64			
	FEV3	L	0.00	0%	3.73			
	FEV1%FVC	%	82.98	104%	86 60			
	FEV1%FIVC	%	82.98	6488%	5383.33			
	FEV3%FVC	%	0.00	0%	100.00			
	5FV1%FEV6	%	0.00	0%	86.60			
1	1%FIVC	%	82.98	121%	100.00			
	PEF	L/s	9.01	98%	8.85			
	FET	5	0.00	0%	2.86			
	ELA	year	36.00	167%	60.00			
	MMEF2575	L/s	4.19	108%	4.54			
	FEF25	L/s	8.35	105%	8.77			
	FEF50	US.	4.97	112%	5.58			
	FEF75	L/s	2.05	95%	1.94			
	MMEF2550	Lis	0.00	0%	7.78			

Operator's note

Quality control

NLHEP: QC Grade D

Automatic interpretation

Normal Spirometry

DR. GOKULDAS H. MANGESHKAP Reg. No. GMC 3440, MBBS, DOIH Occupational Health Physician

0.6Hz - 25Hz - AC 50Hz 25mm/s 10mm/mv iMAC 300 1.0.25 Simultaneous RAP IVE AVE Butu Khandayataray CE aur 190 -07/M

五四

Reg. No. GMC 3440, MBBS, DOIH
Occupational Harlish Devotation

MANGUIRISH OCCUPATIONAL HEALTH SERVICES

Shop No. 17,18,19 1st Floor, Royal Chambers, Above IDBI Bank, Tisk Ponda- Goa.

Ph: - 0832-2314397

Name

: Mr. Bulu Khandayataray

Age

: 27 Yrs

Gender

: Male

Ref.By

: Vedanta (Peregrine Security)

Date

: 26/10/2023

CHEST P.A. VIEW

Bones and soft tissues around the chest appears normal.

Both the lung fields are clear, with no pleural or parenchymal lesions noted.

Both the domes of the diaphragm are at normal level.

Heart aorta and the mediastinum are normal.

No profusion seen

OPINION: chest x-ray is within normal limits.

DR. GOKULDAS H. MANGESHKA Reg. No. GMC 3440, MBBS, DOIH Occupational Health Physician Note:- (1) Separate page should be maintained for individual worker

Date of leaving/transfer to other work V Reasons for discharge/leaving or transfer 00 0 Date 110/2023 Signs and symptoms observed during 10 examination DR. GOKULDAS H. MANGESHKA! (2) Fresh entry should be made for each examsgaNon.GMC 3440, MBBS, DO!H As per format see the Nature of tests and results thereof file Result fit/unfit 12 fiet Period of temp withdrawal from that 13 work Reasons for such withdrawal 14 Date of declaring him unfit for that 15 work Occupational Health Physician Date of issuing fitness certificate 16 26 110/2000 Signature with the date of the factory 3 Medical Officer/the Certifying Surgeon 17

Department/work

w

U

on

Security

Name of hazardous process

Dangerous process/operation

Nature of job of occupation

be exposed to

Date of posting

Raw materials, products or by-products likely to

HEALTH REGISTER

Name of worker of adult workers

33

khandayaTarau

And the result thereof Medical examination Serial number in the register

Sex: 3

Date of Birth: 27 475

If declared unfit work

HEALTH REGISTER

Serial number in the register

		Post	Department/work		N
		2	Name of hazardous process		of adu
		з	Dangerous process/operation		of adult workers Name of worker
S	ecumity	4	Nature of job of occupation		ker
	97	CII	Raw materials, products or by-products I be exposed to	ikely to	333
		6	Date of posting		ှ တ
		7	Date of leaving/transfer to other work		Bulu
		00	Reasons for discharge/leaving or transfer	ř.	khanc
ચ	६ ११०/२०९३	9	Date	And ti	khandayatama
	70	10	Signs and symptoms observed during examination	Medical examination And the result thereof	TOL
As per file	r format see the	11	Nature of tests and results thereof	thereof	
	fit	12	Result fit/unfit		
		13	Period of temp withdrawal from that work	_	
		14	Reasons for such withdrawal	declar	+. Dan
3		15	Date of declaring him unfit for that work	II deciared uniit work	. 01 011 01
2	6 110/2002 6 110/2002	16	Date of issuing fitness certificate	VOLK	Date of Burn. & 4 40
S GOKIII DAS H. MANGI	3	17	Signature with the date of the factory Medical Officer/the Certifying Surgeon		7 6

31/10/2023

3. Sex: 3

Murelas



Dated: 28th November 2023

CERTIFICATE

This is to certify that I have conducted medical check-up of Mr. BHARAT GOND of M/S Monomark Engineering (1) Pvt.Ltd. situated at Cuncolim Industrial estate, Goa

This medical check-up was conducted as per the requirement of Inspectorate of Factories and Boilers, Panaji Goa under rule 19A.

Form No. 7 along with the result of the tests have been handed over to the M/S Monomark Engineering (1) Pvt.Ltd.Situated at Cuncolim Industrial estate, Goa

He is found to be fit.

Dr. POONAM M. DESSAI M.B.B.S. Reg. No. 3620 AFIH Reg. No. 02198 Occcupational Health Physician

Reviewed

en 30 11 2023

Shop No. 2, New market complex, Phase II, Below Community Hall, Cuncolim, Salcete, Goa. 403703.

Ph.: +91(832)-2763747 Mob./Whatsapp: 8208683305 Email: moludlagnostics@gmail.com Website: www.moludlagnosticsgoa.com

HEALTH REGISTER

1. Serial No. in the register :

Of adult worker

41.

3.Sex : Male

2. Name of worker: Dharat Gond

4. D.O.B Age: 45 yrs

		and the year to ye	-			
	1	Department/works				
	2	Name of hazardous process				
	3	Dangerous process/operation				
	4	Nature of job of occupation				
	5 Raw materials, products or by-products likely to be exposed to					
6 Date of posting						
	7	Date of leaving/transfer to other work				
	8	Reasons for discharge/leaving or tra	nsfer			
28/11/2023 NIL	9	Date Signs and symptoms observed during examination				
Complete blood count, Blood Group, Blood sugar level, Blood Urea, Serum Creatinine, Lipid Profile, Bilirunin Profile, SGPT, SGOT, Urine analysis, ECG, Chest – X-ray, Audiometry, Vision Testing, Physical Examination Spirometry.	11	Nature of tests and results thereof	Medical examination and the result thereof			
FIT	12	Result fit/unfit	sult the			
	13	Period of temp withdrawal from that work	reof			
	14	Reasons for such withdrawal	T			
	15	Date of declaring him unfit for that work				
26/11/2023	16	Date of issuing fitness certificate	100 - 100			
Lusar.	17	Signature with the date of the factory Medical Officer / the Certifying Surgeon	-			

Dr. POONAM M. DESSAI M.B.B.S. Reg. No. 3620 AFIH Reg. No. 02198 Occcupational Health Physician

Reviewed on 30/11/2013

Notes :- 1 Separate page should be maintained for individual worker 2. Fresh entry should be made tokeach examination

Molu Diagnostics & Occupational Health Service

Shop No. 10/2. Ground Floor, Cuncolim Market Complex, Below Cuncolim Muncipal Hall, Cuncolim Salcete Goa. Mob. 7350188225

Name: BHARAT GOND

Age: 45 yrs

Sex: MALE

Address: Malco energy

Identification marks: Mole on the face Personal History:

1. Smoking: No 3. Drug addiction: No 5. Gambling: No

2. Alcohol: No 4. Tobacco Chewing: No 6. Nutrition: Normal

Marital Status: Married

Children: 2

Family planning: Temporary method

Hobbies NIL

Frequent colds/ Sneezing	Nil	Recent loss of weight	Nil
Urinary Disturbances	Nil	Impaired hearing	Nil
Chronic cough	Nil	Ear discharge	Nil
Shortness of breath	Nil	Backache	Nil
Chest pain/ pressure	Nil	Joint pain	Nil
Allergy to drug/ chemicals	Nil	Bowel Disturbance	Nil
Frequent headaches	Nil	Epilepsy	Nil
Visual Disturbances	Nil	Swelling of legs/ feet	Nil
Vertigo	Nil	Operation	Nil
Any other	Nil		

Details of above: Nil

Past History & Ramily Histo

Disease	Self	Father	Mother	Other
1. Heart disease/ Hypertension	Nil	Nil	Nil	Nil
Diabetes	Nil	Nil	Nil	Nil
Tuberculosis	Nil	Nil	Nil	Nil
Bronchial Asthma	Nil	Nil	Nil	Nil
Epilepsy	Nil	Nil	Nil	Nil
Arthritis/Rheumatism	Nil	Nil	Nil	Nil
Cancer	Nil	Nil	Nil	Nil
Kidney Disorder	Nil	Nil	Nil	Nil
Liver Disease	Nil	Nil	Nil	Nil
Skin Diseases	Nil	Nil	Nil	Nil
Allergies	Nil	Nil	Nil	Nil /
Accidents	Nil	Nil	Nil	Nil
Any other	Nil	Nil	Nil	Nil





Sr No

:17998

:Mr. BHARAT GOND

Advised Date Patient Code :28/11/2023 01:41:08 PM

Name Age

:45 (Y)

:PH0004391607

Gender

:Male

Referred By

:Dr. POONAM DESSAI

Medical Facility

COMPLETE BLOOD COUNT

Test	Result	Unit	BRI/RangeValue
HAEMOGLOBIN (Hb)	14.2	gm/dl	13 - 17
TLC (Total Leucocyte Count)	7640	/cumm	4000 - 10000
DIFFERENTIAL LEUCOCYTE COUNT			
NEUTROPHIL.	52	%	40 - 70
LYMPHOCYTES	38	%	20 - 40
EOSINOPHILS	06	%	1 - 6
MONOCYTES	04	%	2 - 10
BASOPHILS	00	%	0 - 1
RBC Count	4.2	millions/cmm	3.8 - 5.8
P.C.V. / HEMATOCRIT	42	%	40 - 50
M C V (Mean Corp Volume)	100.00	fL	83 - 101
M C H (Mean Corp Hb)	33.81	pg	27 - 32
M C H C (Mean Corp Hb Conc)	33.81	g/dL	31.5 - 34.5
PLATELET COUNT	226	Thou/mm3	150 - 410
ESR (WINTROBE)	05	mm/Ist hr.	0 - 10

BLOOD GROUP

Test	Result	Unit	BRI/RangeValue
BLOOD GROUP ABO	A		

RH TYPING

POSITIVE

BIOCHEMISTRY ROUTINE

Test	Result	Unit	BRI/Range Value
BLOOD SUGAR RANDOM	97	mg/dl	70 - 140

Normal < 140

Sr Lab Technician

Cons Pathologist MBBS, MD

Shop No. 2, New market complex, Phase II, Below Community Hall, Cuncolim, Salcete, Goa. 403703. Ph.: +91(832)-2763747 Mob./Whatsapp : 8208683305 Email : moludiagnostics@gmail.com Website : www.moludiagnosticsgoa.com Contd.

Page 1 of 4





N/TASE

Sr No

:17998

Advised Date

:28/11/2023 01:41:08 PM

Name

:Mr. BHARAT GOND

Patient Code

:PH0004391607

Age

:45 (Y)

Referred By

:Dr. POONAM DESSAI

Gender

:Male

Medical Facility

.

Diabetes Mellitus: >=200 (on more than one occasion)

BLOOD UREA	20	mg/dl	13 - 45
SERUM CREATININE	0.9	mg/dl	0.7 - 1.4
SGPT (ALT)	26	U/L	< 45
GOT (AST)	29	U/L	< 40

LIPID PROFILE

Test	Result	Unit	BRI/RangeValue
TOTAL CHOLESTEROL	130	mg/dl	0 - 200
TRIGLYCERIDES	98	mg/dl	0 - 150
HDL CHOLESTEROL	46	mg/dl	>40
LDL CHOLESTEROL	64.40	mg/dl	< 100
VLDL	19.60	mg/dl	< 30
TOTAL / HDL CHOLESTEROL RATIO	2.83		0 - 4.97
LDL / HDL CHOLESTEROL RATTO	1.40		0 - 3.88

BILIRUBIN PROFILE

Test	Result	Unit	BRI/RangeValue
TOTAL BILIRUBIN	0.9	mg/dl	0.3 - 1.2
DIRECT BILIRUBIN	0.1	mg/dl	0.0 - 0.2
INDIRECT BILIRUBIN	0.80	mg/dl	< 1.1

URINE ROUTINE EXAMINATION

Test	Result	Unit	BRI/RangeValue	

URINE ROUTINE EXAMINATION PHYSICAL EXAMINATION

SM)

Summy ...

Sr Lab Technician

Cons Pathologist MBBS, MD

Shop No. 2, New market complex, Phase II, Below Community Hall, Cuncolim, Salcete, Goa. 403703.

Ph.: +91(832)-2763747 Mob./Whatsapp: 8208683305 Email: moludlagnostics@gmail.com Website: www.moludlagnosticsgoa.com

MOLU DIAGNOSTICS Towards Precision Healthcare

Sr No Name

:17998

Advised Date

:28/11/2023 01:41:08 PM

Age

:Mr. BHARAT GOND :45 (Y)

Patient Code

:PH0004391607

Gender

:Male

Referred By

:Dr. POONAM DESSAI

Medical Facility

COLOUR

YELLOW

TRANSPARENCY

CLEAR

CHEMICAL EXAMINATION

4.7 - 7.5

SPECIFIC GRAVITY URINE SUGAR

1.030

NIL

URINE PROTEIN

URINE BILIRUBIN

NIL

URINE KETONE BODIES

NIL

UROBILINOGEN

NEGATIVE

BLOOD

NORMAL

LEUCOCYTE

NII.

NTIRATE

NEGATIVE NEGATIVE

MICROSCOPIC EXAMINATION

PUS CELLS

2-3

/hpf

EPITHELIAL CELLS

1-2

/hpf

RBC

NIL

NIL

CRYSTALS CASTS

NIL

BACTERIA

NOTSEEN

YEAST BUDDING CELLS

NOT SEEN

THERS

NIL

X-RAY CHEST

X-RAY CHEST PA VIEW

Lung fields do not reveal any active parenchymal pathology.

Both hilar shadows appear normal.

Cardiac size and silhouette appear normal,

Both costophrenic angles are normal.

Sr Lab Technician

dimenting

Cons Pathologist MBBS. MD

Shop No. 2, New market complex, Phase II, Below Community Hall, Cuncolim, Salcete, Goa. 403703. Ph.: +91(832)-2763747 Mob./Whatsapp: 8208683305 Email: moludlagnostics@gmail.com Website: www.moludlagnosticsgoa.com





Sr No

:17998

Advised Date

:Mr. BHARAT GOND

Patient Code

:28/11/2023 01:41:08 PM

Name Age Gender

:45 (Y) :Male

Referred By

:PH0004391607 :Dr. POONAM DESSAI

Medical Facility

Soft tissues and bones underview appear normal.

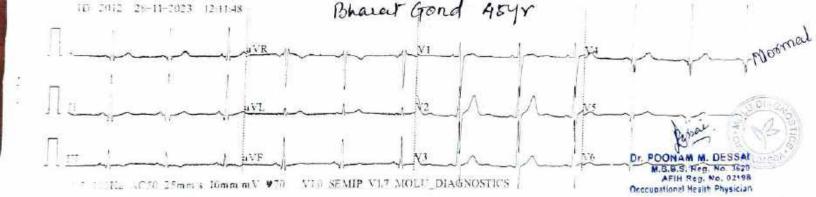
End of Report

DR. CHARUDUTA SAMBHAJI MBBS, M.D. (RADIODIAGNOSIS) G.M.C. Reg. No. 1683 CONSULTANT INTERVENTIONAL RADIOLOGIST

Sr Lab Technician

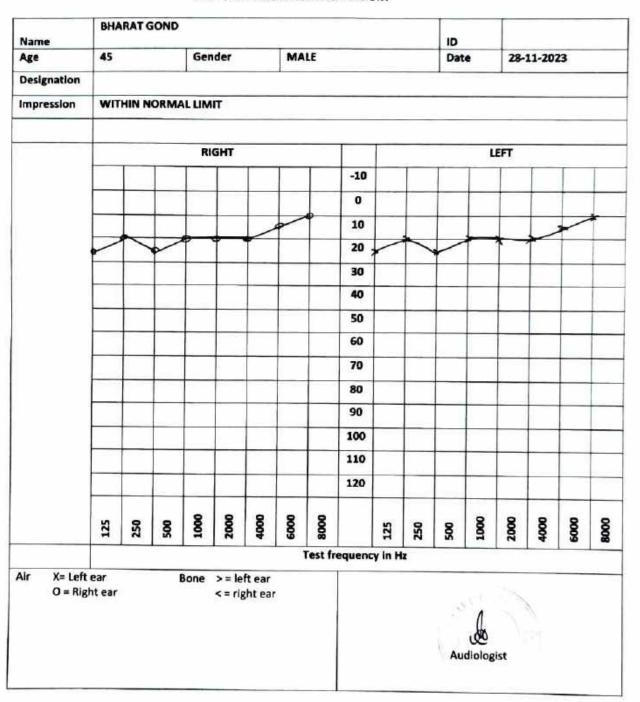
dimentin

Cons Pathologist MBBS, MD





AUDIOLOGICAL EVALUATION REPORT



MOLU DIAGNOSTICS

Shop No. 10/2, New Muncipal Market Complex, Phase II, Cuncolim. Salcette - Goa.

Patient: BHARAT GOND

Refd. By:

Pred.Eqns: RECORDERS

Date : 28-Nov-2023 01:05 PM

Age Height : 156 Cms

: 45 Years

Weight : 59 Kgs

Gender

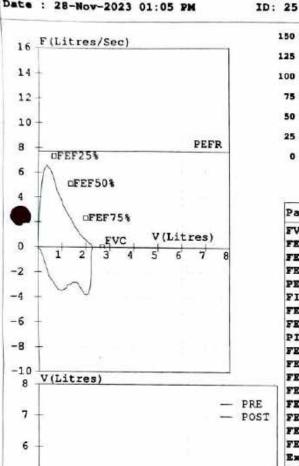
: Male

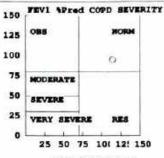
Smoker

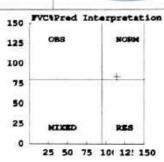
: No Eth. Corr: 100

Temp :









(FEV1/FVC) &Pred

(FEV1/FVC) \Pred

		SI	pirometr	Y (FVC	Results	7.	
Parameter	•	Pred	M.Pre	%Pred	M. Post	*Pred	% Imp
FVC	(L)	02.68	02.25	084			
FEV1	(L)	02.16	02.06	095			
FEV1/FVC	(%)	80.60	91.56	114			
FEF25-75	(L/s)	03.45	02.62	076			
PEFR	(L/s)	07.68	06.49	085			
FIVC	(L)		02.26				
FEV.5	(L)		01.67				
FEV3	(L)	02.60	02.25	087			
PIFR	(L/s)		03.81				
FEF75-85	(L/s)		00.92				
FEF . 2-1 . 2	(L/s)	05.84	04.53	078			
FEF 25%	(L/s)	07.29	05.88	081			
FEF 50%	(L/s)	05.11	03.00	059			
FEF 75%	(L/s)	02.32	01.21	052			
FEV.5/FVC	(%)		74.22				
FEV3/FVC	(%)	97.01	100.00	103			
FET	(Sec)		01.71				
ExplTime	(Sec)		00.05				
Lung Age	(Yrs)	045	047	104			
FEV6	(L)	02.68					
FIF25%	(L/s)		03.02				
FIF50%	(L/s)		03.28				
FIF75%	(L/s)		02.63				

- PRE - POST 3 OFEV6 FVC DFEV1 2 T (Seconds)

Pre Test COPD Severity Test within normal limits

Pre Medication Report Indicates Spirometry within normal limits as (FEV1/FVC) APred >95 and FVC4Pred >80.





S1, S2 & S5, Kamat Commercial, Above Women's Look, Martires Dias Road, Near Harl Mandir, Margao, Salcete, Goa - 403 601. Ph.: 2711140 E-mail : medicalsdivine@yahoo.com



22nd DECEMBER 2023

TO WHOMSO EVER IT MAY CONCERN

This is to certify that I, Dr.Phillip Mascarenhas, have performed Pre Employment Medical examination for MALCO ENERGY LTD of MR. AJAY ANIL VELIP, 21 Years Male on 22ndDECEMBER 2023 according to Factories Act 1984.

The Employee is Fit for work.



Dr. Phillip Mascarenhas
MB88, DN8 (Med), AFIH
Occupation Health Physician
DIVINE MEDICAL CENTRE, GMC Reg. No. 1498

DGFASLI Reg. No: 1097 Margao - Goa Nates:- (1) Separate page should be maintained for individual worker

(2) Fresh entry should be made for each examination

Name of hazardous process Dangerous process/operation Boiles operators S 6 Date of posting Date

Nature of job of occupation Raw materials, products or by-products likely to be exposed to Date of leaving/transfer to other work Reasons for discharge/leaving or transfer

Department/works

Medical examination and the result thereof Signs and symptoms observed during examination Nature of tests and results thereof 12 Result fil/unfit

Period of temp withdrawal from

Reasons for such withdrawal 7 Date of declaring him unfit for 5 that work Date of Issuing fitness certificate

Signature with the date of the factory Medical Officer/the Certifying Surgeon

Phillip Mascarenhae

MBB6, DNB (Med), AFIH Occupation Health Physician DIVINE MEDICAL CENTRE, GMC Reg. No. 1488

3

DGFASLI Reg. No: 1097 Margao - Goa

HEALTH REGISTER

Serial number in the register of adult workers

Name of worker

Ġ

If declared unfit for work

4. Date of birth: 24-06-2002

3. Sex: Male



S1, S2 & S5, Kamat Commercial, Above Women's Look, Martires Dias Road, Near Harl Mandir, Margao, Salcete, Goa - 403 601. Ph.: 2711140 E-mail: medicalsdivine@yahoo.com



PRE-EMPLOYMENT MEDICAL EXAMINATION

Record No.

1. Name: AJAY VELIP	2.Date: 22-12-2023
3. Address:	4. Occupation: BOILER OPERATOR TRAINEE
5. Establishment: MALCO ENERGY LTD	6.SEX:Male /Female
5. Age: 21 YRS	
PERSONAL HISTORY	
A. 1. Smoking : No	2. Alcohol: No
3. Drug Addiction : No	4. Tobacco chewing: No
B. MARITIAL STATUS : Single /Married	Identification Mark: BIRTH MARK ON LEFT

- B. PERSONAL HISTORY & FAMILY HISTORY: NIL
- C. TREATMENT HISTORY:
- D. PAST HISTORY:

DISEASE	FATHER	MOTHER	OTHERS
Heart Disease/Hypertension	•	2	-
2. Diabetes Mellitus		*	
3. Tuberculosis	5		
4. Bronchial Asthma/COPD	-		
5. Epilepsy	-	¥	
6. Arthritis	-		-
7. Cancer	-		
8. Kidney Disorder	-		
9. Liver Disease	3		
10. Skin Disease	52	<u>=</u>	
11. Allergies	·*	*	14
12. Accidents / injuries		+	
13. Surgeries	EDICAL		*

Reg. No. 1097

MARGAO.G



S1, S2 & S5, Kamat Commercial, Above Women's Look, Martires Dias Road, Near Hari Mandir, Margao, Saicete, Goa - 403 601. Ph.: 2711140 E-mail: medicalsdivine@yahoo.com



CLINICAL EXAMINATION REPORT

1. General Appearance:

Height: 173 cms Weight: 63 Kg Waist : 93 cms

Hip :98 cms

Height in CM-100= 73 Weight in KG= 63

Teeth Chest : No caries

BMI

: 88 / 85 cms : 21 Kg/m2

Build

: Normal

2. Skin: Healthy and clean, No Infection

Nail:

Normal

3. Eyes

Conjuctiva: Normal Pupil Normal

Cornea: Normal

Phorias: Normal

4. Ears

Auditory Canal: Normal Hearing

Normal

Ear Drums: Normal

Nose

Septum: Normal

Nostril: Normal

6. Mouth

Tongue: Normal Palate: Normal Speech: Normal

Tonsils :

Normal

Teeth:

No caries

Pharynx:

Normal

7. Lymphatic & Endocrine

Lymph. Nodes:

Normal

Thyroid:

Normal

8. Respiratory System

Chest: Normal

Chest Exp/Ins : Normal No Crepitations : Respiratory Rate: 17

Sound: Normal Shape : Normal Ronchi: No

9. Cardiovascular System

Pulse :70 /min

Rhythm: REGULAR Thrills : Absent Murmurs : Absent

Blood Pressure: 120/80 mm Hg

Heart sounds: Normal Peri Vessels: Normal Heart Size : Normal





51, 52 & 55, Kamat Commercial, Above Women's Look, Martires Dias Road, Near Harl Mandir, Margao, Salcete, Goa - 403 601. Ph.: 2711140 E-mail: medicalsdivine@yahoo.com



10. Abdomen

Kidney: Not palpable

Spleen: Not palpable

Liver

Not palpable

Any lump/Masses: Not palpable

11. Genito- Urinary

Inguninal Hernia:

Nil

Ext. Genitalia: NII

Hydrocele: NII Phimosis:

Nil

Discharge /V.D: Nil

12. Musculoskelatal

Posture:

Normal

Spines: Normal

Bones: Normal

Joints: Normal

13. Nervous System

Cranial Nerves: Normal

Motor System: Normal

Sensory System: Normal

Reflexes:

Normal

Special observation, if any or Evidence of any operation : No deformity, Injury or accident

Reg. No. 1097

TITMUS VISION TESTING :

Corrected : NA

Uncorrected: 6/6

Near Vision: N-6

Far Vision: Right Eye- 6/6

Left eye- 6/6

Bilateral- Normal

Phorias:

No

Colour blindness: No

Field of Vision: Normal

Stereo Depth Normal



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LABORATORY TESTS REPORT

I. Blood Group :RH - O +ve

II. Routine Blood Report

1. HAEMOGLOBIN: 15.9

2.RBC : 5.0

3. Total W.B.C : 7900

4.DIFFERENTIAL COUNT (D.C)Neutrphil/Polymorphs: 60 %

Lymphocytes

Eosinophils

Monocyte

Basophils

mm/hr

(M(13-18.0) F(12-16)g/d)

(4.5-5.7million/cu.mm) (4,000-11000/cu.mm)

(N.40-75%)

: 36 % (N. 16-45%)

: 04 % (N. 0-5%) : 00 % (N. 0-5%)

: 00 % (N.O-2%)

III. BIOCHEMICAL TESTS:

Blood Glucose(F/R) : 108

Total Cholesterol: 196

Sr.Triglyceride: 148 Sr.LDL : NA

Sr.HDL

5. ESR 04

Sr.VLDL Sr. Uric acid : NA

Creatinine Blood Urea

: 45 : NA

8.0 19

(N70-140mg/dl) (N 120-250 mg/dl)

(N 40-160 mg/dl) (UPTO 130 mg/dl)

(N 35-55 mg/dl) (N 10-40 mg/dl) (N 3.6 - 7.7 mg/dl) (0.5-1.2 mg/dl)

(10-40 mg/dl)

IV. HORMONE TEST:

DHEA-S : NA

ESTRADIOL (E2): NA TOTAL TESTOSTERONE: NA

PROGESTERONE: NA

(N 238.40-539.30 ug/dL)

<39.0 pg/MI

(N 166.00-811 ng/dl) (N 0.28-1.22 ng/dl)

V. URINE EXAMINATION

(a) General Examination:

Quantity: 10 ml

Specific Gravity: 1.015

Colour

PALE YELLOW

Odour

: Normal

Appearance : CLEAR

Deposit : Absent Reaction: 6.0

(b) Chemical Examination

Protein : ABSENT

Glucose : ABSENT Acetone: Absent

Blood Absent

Bile Salts

: Absent Bile Pigments: ABSENT

Urobilinogen: NORMAL

(c) Microscopic Examination

:0-1Hpf Pus Cells Red Blood Cells: ABSENT Epithelial Cells: 0-1Hpf

Amorphous material: NII

Yeast Cells: NII

Crystals: ABSENT







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AUDIOMETRY:

BILATERAL HEARING SENSITIVITY WITHIN NORMAL LIMITS

SPIROMETRY

Opinion: NORMAL

CHEST X-RAY REPORT

Opinion: NORMAL STUDY

ELECTROCARDIOGRAM

Opinion: WITHIN NORMAL LIMITS

ULTRASOUND

Opinion: NA

Doctors Remark: Based on above mentioned tests AJAY VELIP is free from any

communicable and infectious disease and is FIT.

Dr. Phillip Mascarenhae

MBBS, DNS (Med), AFIH Occupation Health Physician DIVINE MEDICAL CENTRE, GMC Reg. No. 1438 DGFASLI Reg. No: 1097

Margao - Goa



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ISO 9001: 2015 Reg. No RQ91/5543

Sr.No.: DMC2212237

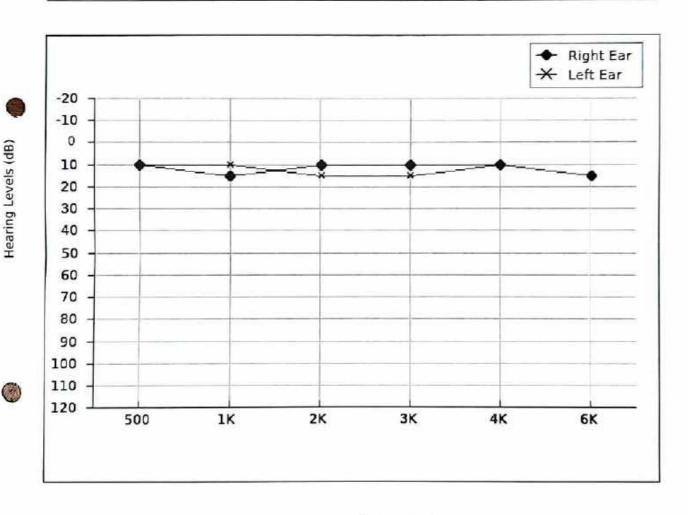
Sampling Date: 22 / 12 / 2023

Patient Name : AJAY ANIL VELIP

Time: 08:33:00

Adv. BY.: Dr. Phillip Mascarenhas

Age / Sex: 21 / Male



Frequency in Hertz (Hz)

ACL x ACR O BCL > BCR < ACLm□ ACRm△ BCLm] BCRm[

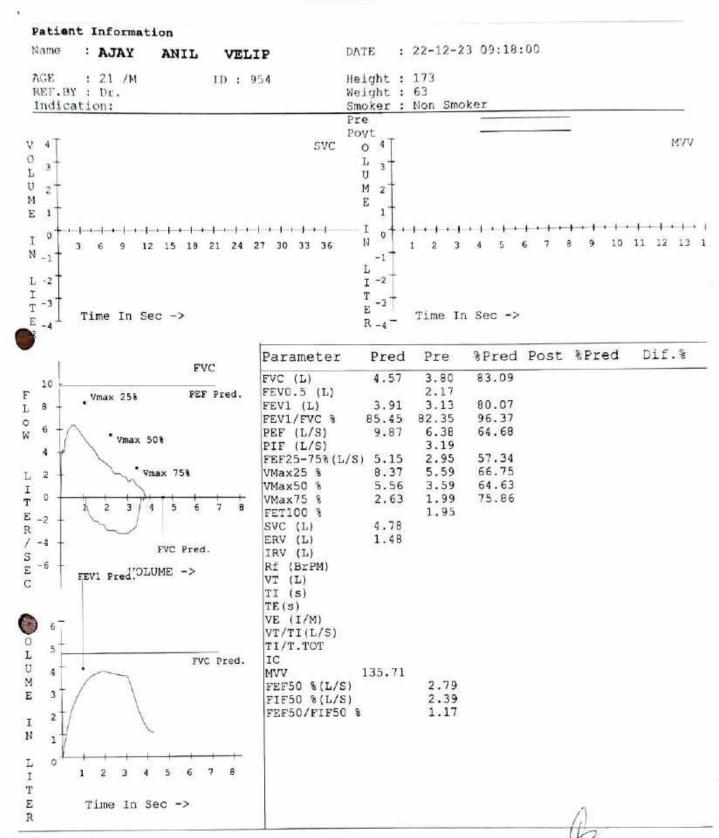
Interpretation:

BILATERAL HEARING SENSITIVITY WITHIN NORMAL LIMITS Dr. Phillip Mascarenhae

MBBS, DNB (Med), AFIH
Occupation Health Physician
DIVINE MEDICAL CENTRE, GMC Reg. No. 1459
DGFASLI Reg. No: 1097
Margao - GOB



DIVINE MEDICAL CENTRE MARGOA-GOA



Diagnosis

Normal Spirometry (FVC and FEV1/FVC>80% of Predicted value)

Dr. Phillip Mascarenhas
MBBS, DNB (Med), AFIH
Occupation Health Physician
DIVINE MEDICAL CENTRE, GMC Reg. No. 145DGFASLI Reg. No: 1097

Margao - Goa



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Name: AJAY VELIP

Date:22/12/2023

CHEST X-RAY (PA VIEW)

The lung fields are clear.

Both hilar shadows are normal.

Both the costophrenic angles appear clear.

The cardiac shadow appears normal.

Bony rib cage appears normal.

Soft tissues are normal.

OPINION: Normal study

With regards,

EDICAL CELLIR

Muranda

DrFranzil de Miranda DMRD, M.Med, DICR, EDiR, FRCR Consultant Radiologist



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Sr.No.: DMC2212237

Sampling Date: 22 / 12 / 2023

Patient Name: AJAY ANIL VELIP

Time: 08:33:00

Adv. BY.: Dr. Phillip Mascarenhas

Age / Sex: 21 / Male

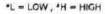
BIOCHEMICAL INVESTIGATION

TEST		RESULT	UNITS	REFERENCE RANGE
BLOOD SUGAR (F)	1	108	mg/dl	70 - 110
TOTAL CHOLESTEROL	3	196	mg/dl	130 - 200
TRIGLYCERIDES	:	148	mg/dl	30 - 150
SERUM G.O.T	1	34	IU/L	5 - 34
SERUM G.P.T	3	36	IU/L	0 - 55
SERUM BILIRUBIN (TOTAL)	;	0.4	mg/dl	0.2 - 1.2
SERUM BILIRUBIN (DIRECT)		0.2	mg/dl	0 - 0.5
SERUM BILIRUBIN (INDIRECT)		0.2	mg/dl	0 - 0.7
BLOOD UREA	:	19	mg/dl	10 - 40
SERUM CREATININE		0.8	mg/dl	0.5 - 1.2

Dr. Phillip Mascarenhas

MBBS, DNB (Med), AFIH
Occupation Health Physician
DIVINE MEDICAL CENTRE, GMC Reg. No. 1438
DGFASLI Reg. No: 1097

Margao - Goa







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Sr.No.: DMC2212237

Sampling Date: 22 / 12 / 2023

Patient Name: AJAY ANIL VELIP

Time: 08:33:00

Adv. BY.: Dr. Phillip Mascarenhas

Age / Sex: 21 / Male

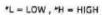
COMPLETE BLOOD COUNT

TEST	RESULT	UNITS	REF.RANGE
RBC	: 5.0	m/cu.mm	4.6 - 6.7
HAEMOGLOBIN (HGB)	: 15.9	g/dl	13 - 18
MEAN CORP. VOL (MCV)	: 86	fl	80 - 95
MEAN CORP. HGB (MCH)	: 31	pg	28 - 33
MEAN CORP. HGB CONC. (MCHC)	: 36	g/dl	32 - 36
PLATELETS COUNT (PLT)	: 260000	/cmm	130000 - 400000
WBC	: 7900	/cmm	4000 -11000
PCV-HCT	: 43	%	40 - 50
DIFFERENTIAL COUNT			¥1)
NEUTROPHILS	: 60	%	40 - 75
EOSINOPHILS	: 04	%	0 - 5
LYMPHOCYTES	: 36	%	16 - 45
MONOCYTES	: 00	%	0 -5
BASOPHILS	: 00	%	0 - 2
E.S.R	: 04	mm/hr	0 - 10
BLOOD GROUP			

BLOOD GROUP : O +ve

Dr. Phillip Mascarenhas

MBSS, DNB (Med), AFIH
Occupation Health Physician
DIVINE MEDICAL CENTRE, GMC Reg. No. 1435
DGFASLI Reg. No: 1097
Margao - Goa







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Ph.: 2711140 E-mail : medicalsdivine@yahoo.com



Sr.No. : DMC2212237

Sampling Date: 22 / 12 / 2023

Patient Name: AJAY ANIL VELIP

Time: 08:33:00

Adv. BY. : Dr. Phillip Mascarenhas

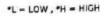
Age / Sex: 21 / Male

11	PI	D	PR	O	FI	LE
		_			-	

TEST		RESULT	UNITS	REFERENCE RANGE
TOTAL CHOLESTEROL	:	196	mg/dl	130 - 200
TRIGLYCERIDES	:	148	mg/dl	30 - 150
HDL CHOLESTEROL	:	45	mg/dl	40.0 - 80.0
Total CHOL/HDL CHOL Ratio		4.36 mg/dL	mg/dL	0 - 05

Dr. Phillip Mascarenhas
MBBS, DNB (Med), AFIH
Occupation Health Physician
DIVINE MEDICAL CENTRE, BMC Reg. No. 1459

DGFASLI Reg. No: 1097







TEST

DIVINE MEDICAL CENTRE

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LIVER FUNCTION TEST



Sr.No.: DMC2212237

Sampling Date: 22 / 12 / 2023

Patient Name : AIAY ANIL VELIP

Time: 08:33:00

Adv. BY.: Dr. Phillip Mascarenhas

Age / Sex: 21 / Male

RESULT	UNITS	REFERENCE RANGE
0.4	mg/dl	0.20 - 1.20

SERUM BILIRUBIN (TOTAL) 0 - 0.50SERUM BILIRUBIN (DIRECT) : 0.2 mg/dl SERUM BILIRUBIN (INDIRECT) : 0.2 mg/dl 0 - 0.7 SERUM G.O.T 5 - 34 : 34 IU/L SERUM G.P.T : 36 IU/L 0 - 55

Dr. Phillip Mascarenhas

MBBS, DNB (Med), AFIH
Occupation Health Physician
DIVINE MEDICAL CENTRE, GMC Reg. No. 1438
DGFASLI Reg. No: 1097

Margao - Goa



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Sr.No.: DMC2212237

Sampling Date: 22 / 12 / 2023

Patient Name: AJAY ANIL VELIP

Time: 08:33:00

Adv. BY.: Dr. Phillip Mascarenhas

Age / Sex: 21 / Male

EXAMINATION OF URINE

PHYSICAL EXAMINATION

VOLUME

: 10 ml

APPEARANCE

: CLEAR

COLOUR

: PALE YELLOW

SP. GRAVITY

: 1.015

CHEMICAL EXAMINATION

PH

: 6.0

GLUCOSE

: ABSENT

KETONES

: ABSENT

OCCULT BLOOD

: ABSENT

BILIRUBIN

: ABSENT

UROBILINOGEN

: NORMAL

PROTEIN

: ABSENT

NITRITE

: ABSENT

BILE SALTS

: ABSENT

MICROSCOPIC EXAMINATION

CRYSTALS

: ABSENT

CASTS

: ABSENT

LEUCOCYTES

: ABSENT

ERYTHROCYTES

: ABSENT

EPITHELIAL CELLS

: 0-1Hpf Hpf

BACTERIA

: ABSENT

PARASITES

: ABSENT

PUS CELLS

: 0-1Hpf

Dr. Phillip Mascarenhas

MBES, DNB (Med), AFIH Occupation Health Physician DIVINE MEDICAL CENTRE, GMC Reg. No 1458 DGFASLI Reg. No: 1097

Margao - Goa



S1, S2 & S5, Kamat Commercial, Above Women's Look,
Near Old Hari Mandir, Margao, Salcete - Goa 403 601 Tel.: 0832-2711140
email: medicaledivine@yahoo.com, www.divinemedicalcentre.in
Time: 7.30 a.m. to 6.00 p.m.

ELECTROCARDIOGRAM

REFERRED BY

NAME: Ajay . A . Velip

DATE: 22/12/

AGE: 21yrs

SEX: Male

HISTORY: No Significant Past History

CLINICAL FINDINGS: No Clinical findings

REMARKS :-

within Normal Limits

RATE: 806pm

RHYTHM: Sinus

AXIS: Normal

P.WAVE: 106ms

QRS: 92ms

P. R. INTERVAL :- 156ms

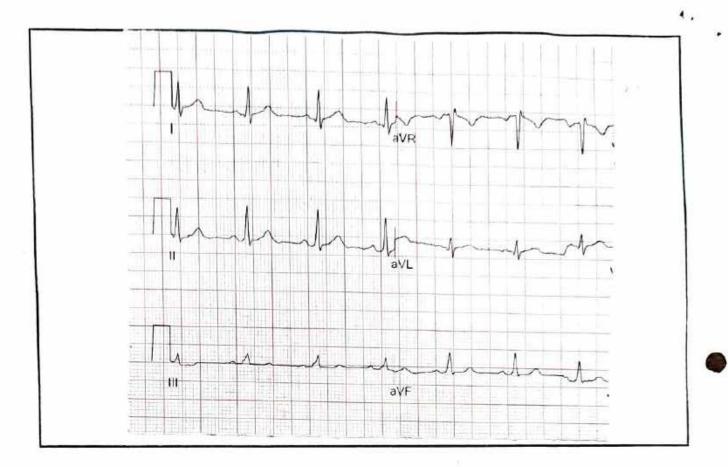
ST. SEGMENT :- Noomal

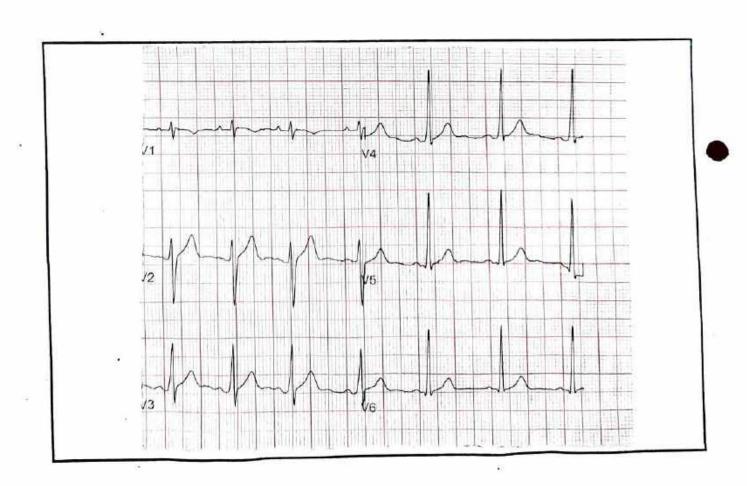
Q. R. INTERVAL :- Normal

TWAVE: Normal

Dr. Phillip Mascarenhas

MBBS, DNB (Med), AFIH
Occupation Health Physician
OIVINE MEDICAL CENTRE, GMC Reg. No. 1456
DGFASLI Reg. No: 1097
Margao - Goa







Dated: 03rd January 2024

2038

CERTIFICATE

This is to certify that I have conducted medical check-up of Mr. MANISH SAHU of M/S Monomark Engineering (1) Pvt.Ltd. situated at Cuncolim Industrial estate, Goa

This medical check-up was conducted as per the requirement of Inspectorate of Factories and Boilers, Panaji Goa under rule 19A.

Form No. 7 along with the result of the tests have been handed over to the M/S Monomark Engineering (1) Pvt.Ltd.Situated at Cuncolim Industrial estate, Goa

He is found to be fit.

Dr. POONAM M. DESSAI M.B.B.S. Reg. No. 3620 AFIH Reg. No. 02198 Occcupational Health Physician

Remarked an 09/01/2024

HEALTH REGISTER

1. Serial No. in the register :

126.

3.Sex: Male

Of adult worker 2. Name of worker: Manish Sahu

Notes :- 1 Separate page should be maintained for individual worker 2. Fresh entry should be made for each examination

4. D.O.B Age: 26 yrs

	ı	l Department/works				
	2	Name of hazardous process				
	3	Dangerous process/operation				
	4	Nature of job of occupation				
	5	Raw materials, products or by-products likely to be exposed to	Σ.			
	6	Date of posting				
N	7	Date of leaving/transfer to other wo	rk			
	8	Reasons for discharge/leaving or train	nsfer			
03/01/2024	9	Date	Med			
NIL	10	Signs and symptoms observed during examination	clare			
Complete blood count, Blood Group, Blood sugar level, Blood Urea, Serum Creatinine, Lipid Profile, Bilirunin Profile, SGPT, SGOT, Urine analysis, ECG, Chest – X-ray, Audiometry, Vision Testing, Physical Examination Spirometry	11	Nature of tests and results thereof	Medical examination and the result thereof declared unfit for work			
FIT	12	Result fit/unfit	ult the			
	13	Period of temp withdrawal from that work	reof			
	14	Reasons for such withdrawal				
	15	Date of declaring him unfit for that work				
03/01/2024	16	Date of issuing fitness certificate				
Am.	17	Signature with the date of the factory Medical Officer / the Certifying Surgeon				

Dr. PODNAM M. DESS. I M.B.E.S. Reg. No. 3620 AFTH Reg. No. 02104 Occupanting Market

Molu Diagnostics & Occupational Health Service

Shop No. 10/2. Ground Floor, Cuncolim Market Complex, Below Cuncolim Muncipal Hall, Cuncolim Salcete Goa. Mob. 7350188225

Name: MANISH SAHU

Age: 26 yrs

Sex: MALE

Address: Malco energy

Identification marks: Mole over the neck

Personal History:

1. Smoking: No

3. Drug addiction: No

5. Gambling: No

2. Alcohol: No

4. Tobacco Chewing: No 6. Nutrition: Normal

Children: 0

Marital Status: Married

Family planning: Temporary method

Hobbies Playing Cricket

History of

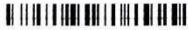
Frequent colds/ Sneezing	Nil	Recent loss of weight	Nil
Urinary Disturbances	Nil	Impaired hearing	Nil
Chronic cough	Nil	Ear discharge	Nil
Shortness of breath	Nil	Backache	Nil
Chest pain/ pressure	Nil	Joint pain	Nil
Allergy to drug/ chemicals	Nil	Bowel Disturbance	Nil
Frequent headaches	Nil	Epilepsy	
Visual Disturbances	Nil	Swelling of legs/ feet	Nil Nil
Vertigo	Nil	Operation	
Any other	Nil	Operation	Nil

Details of above: Nil

Past History & Family History

Disease	Self	Father	Mother	Other
 Heart disease/ Hypertension 	Nil	Nil		110000000000000000000000000000000000000
Diabetes	Nil	Nil	Nil	Nil
Tuberculosis	Nil		Nil	Nil
Bronchial Asthma		Nil	Nil	Nil
Epilepsy	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil
Arthritis/Rheumatism	Nil	Nil	Nil	Nil
Cancer	Nil	Nil	Nil	
Kidney Disorder	Nil	Nil	Nil	Nil
Liver Disease	Nil	Nil	The second secon	Nil
Skin Diseases	Nil		Nil	Nil
Allergies		Nil	Nil	Nil
Accidents	Nil	Nil	Nil	Nil
and the state of t	Nil	Nil	Nil	Nil
Any other	NII	Nil	Nil	Nil





FSYFA

Sr No

:18696

Advised Date

:03/01/2024 12:51:19 PM

Name Age :Mr. Manish Sahu

Patient Code Referred By :PH0004433870 :Dr. POONAM DESSAI

Gender

:26 (Y) :Male

Medical Facility

COMPLETE BLOOD COUNT

Test	Result	Unit	BRI/Range Value
HAEMOGLOBIN (Hb)	14.2	gm/dl	13 - 17
TLC (Total Leucocyte Count)	8200	/cumm	4000 - 10000
DIFFERENTIAL LEUCOCYTE COUNT			
NEUTROPHIL	61	%	40 - 70
LYMPHOCYTES	31	%	20 - 40
EOSINOPHILS	04	%	1-6
MONOCYTES	03	%	2 - 10
BASOPHILS	01	%	0 - 1
RBC Count	6.3	millions/cmm	3.8 - 4.8
P.C.V. / HEMATOCRIT	43	%	40 - 50
M C V (Mean Corp Volume)	68.25	fL.	83 - 101
M C H (Mean Corp Hb)	22.54	pg	27 - 32
M C H C (Mean Corp Hb Conc)	33.02	g/dL	31.5 - 34.5
PLATELET COUNT	321	Thou/mm3	150 - 410

BLOOD GROUP

1	Test

Result

Unit

BRI/RangeValue

BLOOD GROUP ABO

RH TYPING

В

POSITIVE

BIOCHEMISTRY ROUTINE

Test	Result	Unit	BRI/RangeValue
BLOOD SUGAR RANDOM	128	mg/dl	70 - 140

Sr Lab Technician

Cons Pathologist MBBS , MD





BFSYFA

Sr No Name Age

Gender

:18696

:Mr. Manish Sahu

:26 (Y) :Male

Advised Date Patient Code

Referred By Medical Facility :03/01/2024 12:51:19 PM

:PH0004433870

:Dr. POONAM DESSAI

BLOOD UREA SERUM CREATININE SGPT (ALT) SGOT (AST)

mg/dl mg/dl U/L U/L

0.7 - 1.4< 45

13-45

< 40

BILIRUBIN PROFILE

Test	Result	Unit	BRI/Range Value
TOTAL BILIRUBIN	0.3	mg/dl	0.3 - 1.2
DIRECT BILIRUBIN	0.2	mg/dl	0.0 - 0.2
INDIRECT BILIRUBIN	0.10	mg/dl	< 1.1

LIPID PROFILE

Test	Result	Unit	BRI/RangeValue
TOTAL CHOLESTEROL	125	mg/dI	0 - 200
TRIGLYCERIDES	132	mg/dl	0 - 150
HDL CHOLESTEROL	50	mg/dl	> 40
LDL CHOLESTEROL	48.60	mg/dl	< 100
VLDL	26.40	mg/dl	< 30
TOTAL / HDL CHOLESTEROL RATIO	2.50		0 - 4.97
LDL / HDL CHOLESTEROL RATIO	0.97		0 - 3.88

URINE ROUTINE EXAMINATION

Test	Result	Unit	BRI/Range Value	

URINE ROUTINE EXAMINATION PHYSICAL EXAMINATION

Sr Lab Technician

Sime for

Cons Pathologist MBBS, MD





BESYFA

Sr No

:18696

Advised Date

:03/01/2024 12:51:19 PM

Name

:Mr. Manish Sahu

:PH0004433870

Age

:26 (Y)

Patient Code Referred By

:Dr. POONAM DESSAI

Gender

:Male

Medical Facility

.

COLOUR

PALE YELLOW

TRANSPARENCY

CLEAR

CHEMICAL EXAMINATION

PH

5.0

4.7 - 7.5

SPECIFIC GRAVITY

1012 NIL

URINE SUGAR URINE PROTEIN

NOT DETECTED

CIGILLIA

....

URINE BILIRUBIN

NIL

URINE KETONE BODIES

NIL

UROBILINOGEN

NORMAL

BLOOD

NIL

LEUCOCYTE

NEGATIVE

NITRATE

NEGATIVE

MICROSCOPIC EXAMINATION

PUS CELLS

1-2

/hpf

EPITHELIAL CELLS

1-2

/hpf

RBC

1-2

CRYSTALS

NIL

CASTS

NIL

BACTERIA

NOT SEEN

BACIERIA

NOT SEEN

0

YEAST BUDDING CELLS

X-RAY CHEST

X-RAY CHEST PA VIEW

Lung fields do not reveal any active parenchymal pathology.

Both hilar shadows appear normal.

Cardiac size and silhouette appear normal.

Both costophrenic angles are normal.

dimen ?

Sr Lab Technician

Cons Pathologist MBBS, MD





BFSYFA

Sr No Name :18696

Advised Date Patient Code

:03/01/2024 12:51:19 PM :PH0004433870

Age

Gender

:26 (Y) :Male

:Mr. Manish Sahu

Referred By

:Dr. POONAM DESSAI

Medical Facility

Soft tissues and bones underview appear normal.

End of Report

DR. CHARUDUTT (MEUS, IN DIGHT IODIA C. 1 No. 1. LALE

Sr Lab Technician

Cons Pathologist MBBS, MD

dimenti

MOLU DIAGNOSTICS

Shop No. 10/2, New Muncipal Market Complex, Phase II, Cuncollm. Salcette - Goa.

Patient: Manish Sahu

Refd. By:

Pred . Eqns: RECORDERS

Date : 03-Jan-2024 11:55 AN

Age : 26 Years

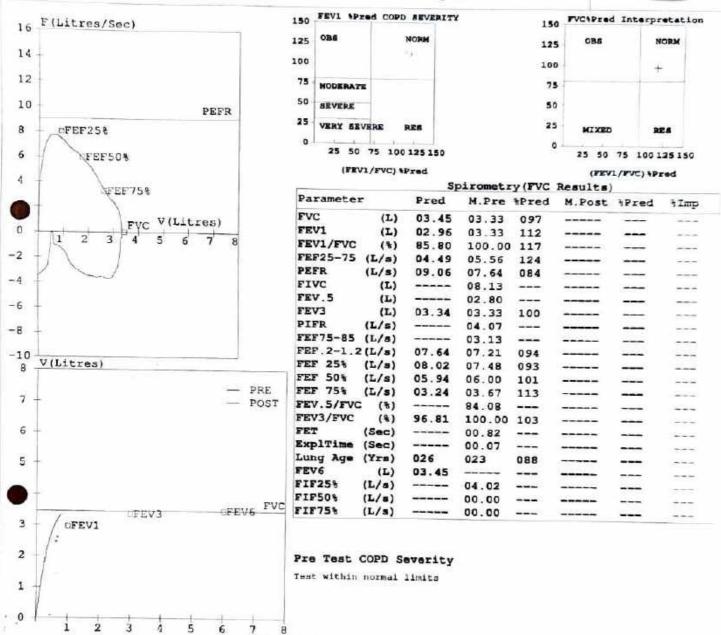
Height : 166 Cms

Weight : 52 Kgs ID: 213 Gender : Male

Smoker : No Eth. Corr: 100

Temp :

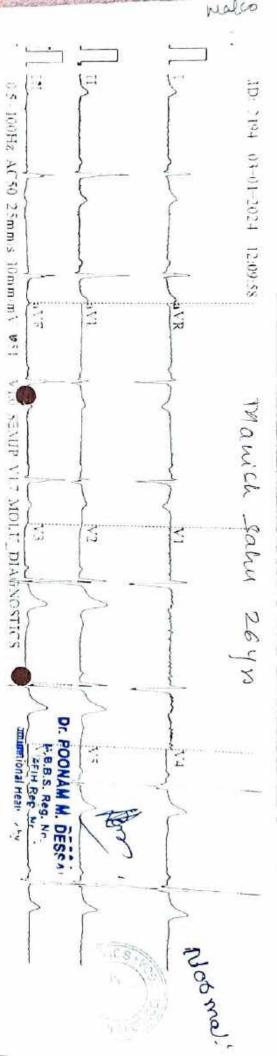




Pre Medication Report Indicates

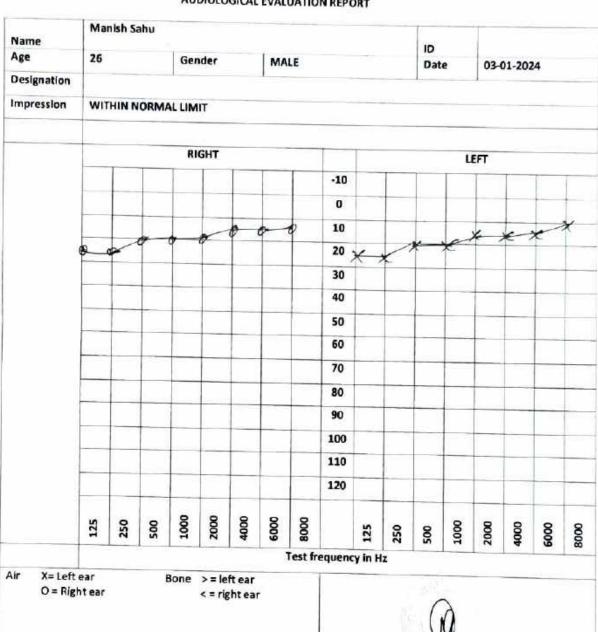
Spirometry within normal limits as (FEV1/FVC) Prad >95 and FVC Pred >80.

T (Seconds)





AUDIOLOGICAL EVALUATION REPORT



M

Audiologist



2132

Dated: 05th February 2024

CERTIFICATE

This is to certify that I have conducted medical check-up of Mr. BHUPENDRA BHARTIYA of M/S Monomark Engineering (1) Pvt.Ltd. situated at Cuncolim Industrial estate, Goa

This medical check-up was conducted as per the requirement of Inspectorate of Factories and Boilers, Panaji Goa under rule 19A.

Form No. 7 along with the result of the tests have been handed over to the M/S Monomark Engineering (1) Pvt.Ltd.Situated at Cuncolim Industrial estate, Goa

He is found to be fit.

Dr. POONAM M. DESSAI M.B.B.S. Reg. No. 3F20 AFM Reg. No. 02158 Occumational Health Physician

Femined on 12/02/2024

HEALTH REGISTER

1. Serial No. in the register :

217.

3.Sex : Male

Of adult worker

Notes :- 1 Separate page should be maintained for individual worker 2. Fresh entry should be made for each examination

2. Name of worker: Bhupendra Bhartiya

4. D.O.B Age: 23 yrs

	1	Department/works			
	2	Name of hazardous process			
	3	Dangerous process/operation			
	4	Nature of job of occupation			
	5	Raw materials, products or by-products likely to be exposed to			
	6	Date of posting			
	7	Date of leaving/transfer to other wo	rk		
	8	Reasons for discharge/leaving or tran	nsfer		
05/02/2024	9	Date	Med If de		
NII	10	Signs and symptoms observed during examination	clare		
NIL Complete blood count, Blood Group,Blood sugar level, Blood Urea, Serum Creatinine, Lipid Profile, Bilirunin Profile, SGPT, SGOT,Urine analysis,ECG, Chest –X-ray, Audiometry, Vision Testing, Physical Examination Spirometry		Nature of tests and results thereof	Medical examination and the result thereof		
FIT	12	Result fit/unfit	ult ther		
	13	Period of temp withdrawal from that work	<u> </u>		
	14	Reasons for such withdrawal			
	15	Date of declaring him unfit for that work			
05/02/2024	16	Date of issuing fitness certificate			
Jonai.	17	Signature with the date of the factory Medical Officer / the Certifying Surgeon			

Dr. POONAM M. DESSAI M.B.B.S. Reg. No. 36.3 AFIH Reg. No. 02198 Occcupational Health Physician

Reviewed on 13/02/2014

Molu Diagnostics & Occupational Health Service

Shop No. 10/2. Ground Floor, Cuncolim Market Complex, Below Cuncolim Muncipal Hall, Cuncolim Salcete Goa. Mob. 7350188225

Name; BHUPENDRA BHARTIYA

Age: 23 yrs

Sex: MALE

Address: Malco energy

Identification marks: Mole over the right chick Personal History:

Smoking: No
 Drug addiction: No

5. Gambling: No

2. Alcohol: No

4. Tobacco Chewing: No 6. Nutrition: Normal

Children: O

Marital Status: Married

Family planning: Temporary method

Hobbies Playing Football

History of

Frequent colds/ Sneezing	Nil	Recent loss of weight	Nil
Urinary Disturbances	Nil	Impaired hearing	Nil
Chronic cough	Nil	Ear discharge	Nil
Shortness of breath	Nil	Backache	Nil
Chest pain/ pressure	Nil	Joint pain	Nil
Allergy to drug/ chemicals	Nil	Bowel Disturbance	Nil
Frequent headaches	Nil	Epilepsy	Nil
Visual Disturbances	Nil	Swelling of legs/ feet	Nil
Vertigo	Nil	Operation	Nil
Any other	Nil		

Details of above: Nil

Past History & Family History

Disease	Self	Father	Mother	Other
1. Heart disease/ Hypertension	Nil	Nil	Nil	Nil
Diabetes	Nil	Nil	Nil	Nil
Tuberculosis	Nil	Nil	Nil	Nil
Bronchial Asthma	Nil	Nil	Nil	Nil
Epilepsy	Nil	Nil	Nil	Nil
Arthritis/Rheumatism	Nil	Nil	Nil	Nil
Cancer	Nil	Nil	Nil	Nil
Kidney Disorder	Nil	Nil	Nil	Nil
Liver Disease	Nil	Nil	Nil	Nil
Skin Diseases	Nil	Nil	Nil	Nil
Allergies	Nil	Nil	Nil	Nil
Accidents	Nil	Nil	Nil	Nil
Any other	Nil	Nil	Nil	Nil





9COM8M

Sr No Name

:19118

:Mr. Bhupendra Bhartiya

Age :23 (Y) :Male Gender

Advised Date Patient Code

Referred By

:PH0004473496

:Dr. POONAM DESSAI

:05/02/2024 03:34:12 PM

Medical Facility

COMPLETE BLOOD COUNT

Test	Result	Unit	BRI/RangeValue
HAEMOGLOBIN (Hb)	15.1	gm/dl	13 - 17
TLC (Total Leucocyte Count)	9800	/cumm	4000 - 10000
DIFFERENTIAL LEUCOCYTE COUNT			
NEUTROPHIL.	60	%	40 - 70
LYMPHOCYTES	31	%	20 - 40
EOSINOPHILS	02	%	1 - 6
MONOCYTES	06	%	2 - 10
BASOPHILS	01	%	0 - 1
RBC Count	5.0	millions/cmm	3.8 - 4.8
P.C.V. / HEMATOCRIT	45	%	40 - 50
M C V (Mean Corp Volume)	91	fL	83 - 101
M C H (Mean Corp Hb)	30	pg	27 - 32
M C H C (Mean Corp Hb Conc)	33	g/dL	31.5 - 34.5
PLATELET COUNT	333	Thou/mm3	150 - 410

BLOOD GROUP

20 Silver	-
30773	Test
J-75 6	

Result

Unit

BRI/Range Value

BLOOD GROUP ABO

RH TYPING

0 POSITIVE

BIOCHEMISTRY ROUTINE

Test	Result	Unit	BRI/Range Value
BLOOD SUGAR RANDOM	132	mg/dl	70 - 140

Sr Lab Technician

Cons Pathologist MBBS, MD

dimentin





9COM8M

Sr No	
Name	

:19118

:Mr. Bhupendra Bhartiya

Advised Date Patient Code

:05/02/2024 03:34:12 PM :PH0004473496

Age

:23 (Y)

Referred By

:Dr. POONAM DESSAI

:Male Gender

Medical Facility

F	BLOOD UREA
S	ERUM CREATININE
S	GPT (ALT)
S	GOT (AST)

28 0.7

mg/dl mg/dl

13 - 45 0.7 - 1.4

32

< 45

28

U/L U/L

< 40

BILIRUBIN PROFILE

Test	Result	Unit	BRI/RangeValue
TOTAL BILIRUBIN	0.8	mg/dl	0.3 - 1.2
DIRECT BILIRUBIN	0.2	mg/dl	0.0 - 0.2
INDIRECT BILIRUBIN	0.6	mg/dl	< 1.1

LIPID PROFILE

Test	Result	Unit	BRI/Range Value
TOTAL CHOLESTEROL	165	mg/dl	0 - 200
TRIGLYCERIDES	122	mg/dl	0 - 150
HDL CHOLESTEROL	57	mg/dl	> 40
LDL CHOLESTEROL	83.60	mg/dl	< 100
VLDL	24.40	mg/dl	< 30
TOTAL / HDL CHOLESTEROL RATIO	2.89		0 - 4.97
LDL / HDL CHOLESTEROL RATIO	1.47		0 - 3.88

URINE ROUTINE EXAMINATION

			CONTRACTOR	_
Test	Result	Unit	BRI/RangeValue	

URINE ROUTINE EXAMINATION PHYSICAL EXAMINATION

Sr Lab Technician

Cons Pathologist

MBBS, MD





Sr No

:19118

Advised Date

:05/02/2024 03:34:12 PM

Name

:Mr. Bhupendra Bhartiya

Patient Code :PH0004473496

Age

:23 (Y)

Referred By

:Dr. POONAM DESSAI

Gender

:Male

Medical Facility

COLOUR

PALE YELLOW

TRANSPARENCY

CLEAR

CHEMICAL EXAMINATION

7.0

4.7 - 7.5

SPECIFIC GRAVITY URINE SUGAR

1012 NIL

URINE PROTEIN

NOT DETECTED

URINE BILIRUBIN URINE KETONE BODIES NIL

UROBILINOGEN

NIL NORMAL

BLOOD

NOT DETECTED

LEUCOCYTE

NEGATIVE

NTIRATE

NOT DETECTED

MICROSCOPIC EXAMINATION

PUS CELLS

2-3

/hpf

EPITHELIAL CELLS

1-2

/hpf

RBC

0-1

CRYSTALS

NIL

CASTS

NIL

BACTERIA

NOT SEEN

YEAST BUDDING CELLS

NOT SEEN

OTHERS

NIL

X-RAY CHEST

X-RAY CHEST PA VIEW

Lung fields do not reveal any active parenchymal pathology.

Both hilar shadows appear normal.

Cardiac size and silhouette appear normal.

Both costophrenic angles are normal.

Sr Lab Technician

Cons Pathologist MBBS, MD

Sime





9COM8M

Sr No

:19118

Advised Date

:05/02/2024 03:34:12 PM

Name

:Mr. Bhupendra Bhartiya

:PH0004473496

Age

:23 (Y)

Patient Code Referred By

:Dr. POONAM DESSAI

Gender

:Male

Medical Facility

Soft tissues and bones underview appear normal.

End of Report

DE Mb.

CONSULTAGE

AL RADIOLOGIST

S ^ MBHAJI

Sr Lab Technician

Cons Pathologist MBBS, MD

dimenta

MOLU DIAGNOSTICS

Shop No. 10/2, New Muncipal Market Complex, Phase II, Cuncolim. Salcette - Goa.

Patient: Bhupendra Bhartiya

Refd. By:

Pred Eque: RECORDERS

Date : 05-Feb-2024 03:43 PM

Age

ID: 364

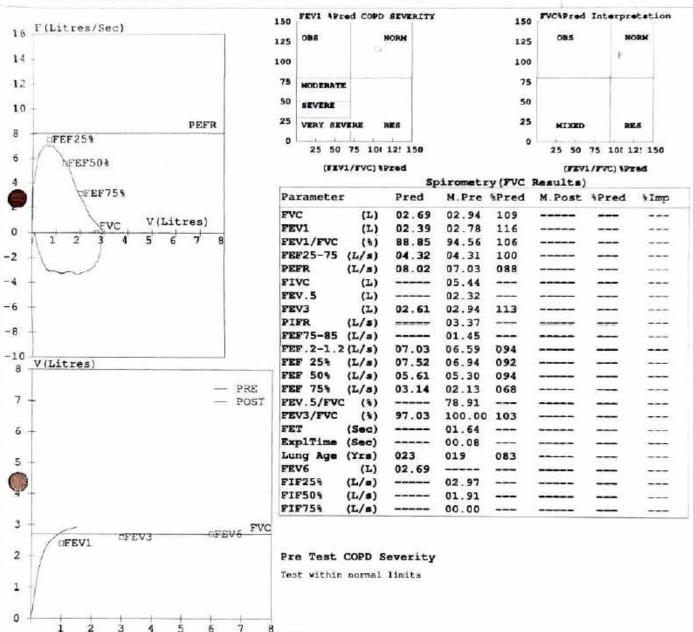
: 23 Years

Height : 150 Cms Weight : 69 Kgs Gender : Male

Smoker : No Eth. Corr: 100

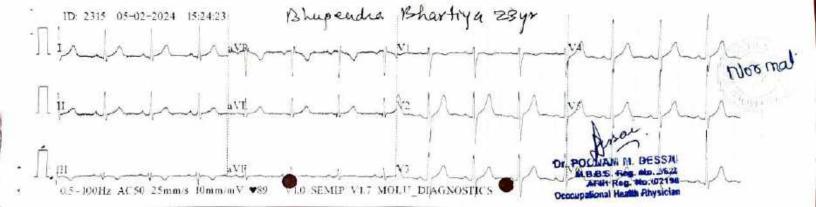
Temp :





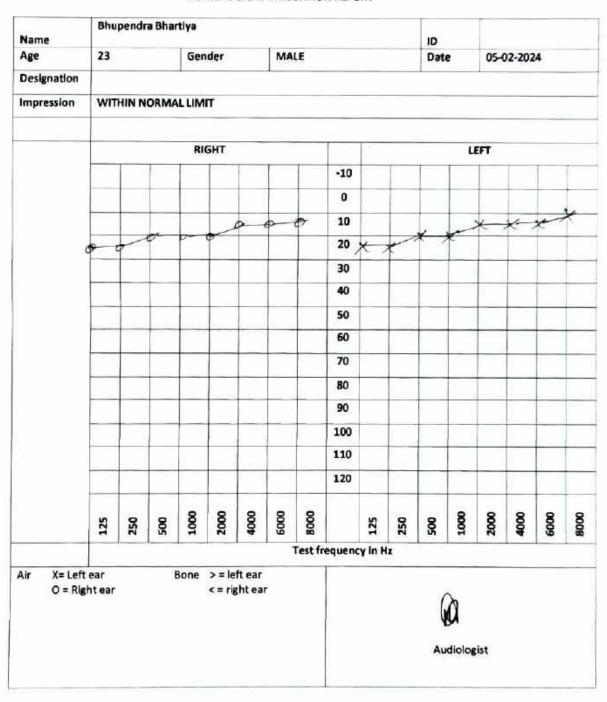
Pre Medication Report Indicates
Spirometry within normal limits as (FEV1/FVC) %Pred >95 and FVC%Pred >80.

T (Seconds)





AUDIOLOGICAL EVALUATION REPORT



Cate Pass - 2220

Dated: 13th March 2024

CERTIFICATE

This is to certify that I have conducted medical check-up of Mr. ARUN THAKUR of M/S Monomark Engineering (1) Pvt.Ltd. situated at Cuncolim Industrial estate, Goa

This medical check-up was conducted as per the requirement of Inspectorate of Factories and Boilers, Panaji Goa under rule 19A.

Form No. 7 along with the result of the tests have been handed over to the M/S Monomark Engineering (1) Pvt.Ltd.Situated at Cuncolim Industrial estate, Goa

He is found to be fit.

Dr. POONAM M. DESSAI M.B.B.S. Reg. No. 3620 AFIH Reg. 19. 02198 Occcupational Health Physician

Remiemed an 21/03/2024

HEALTH REGISTER

1. Serial No. In the register :

Of adult worker

274

3.Sex : Male

2. Name of worker: Arun Thakur

4. D.O.B Age: 45 yrs

		Department/works			
	1				
	2	Name of hazardous process			
	3	Dangerous process/operation			
	4	Nature of job of occupation			
	5	Raw materials, products or by-products likely to be exposed to			
	6	Date of posting			
	7	Date of leaving/transfer to other wo	ork		
	8	Reasons for discharge/leaving or tra	nsfer		
13/03/2024	9	Date	Med If de		
NIL	10	Signs and symptoms observed during examination	clar		
Complete blood count, Blood Group,Blood sugar level, Blood Urea, Serum Creatinine, Lipid Profile, Bilirunin Profile, SGPT, GGOT,Urine analysis,ECG, Chest –X-ray, Audiometry, Vision Testing, Physical Examination Spirometry.	7000 A	Nature of tests and results thereof	Medical examination and the result thereo		
FIT	12	Result fit/unfit	ult ther		
	13	Period of temp withdrawal from that work	eof		
	14	Reasons for such withdrawal			
	15	Date of declaring him unfit for that work			
13/03/2024	16	Date of issuing fitness certificate			
Am.	17	Signature with the date of the factory Medical Officer / the Certifying Surgeon			

Dr. POONAM M. DESSAI

M.B.E.S. Reg. No. 3620 AFTE Rev. No. 02193 Occoupational results Physician Reviewed on 21/03/2021

Notes :- 1 Separate page should be maintained for individual worker 2. Fresh entry should be made for each examination

+Molu Diagnostics & Occupational Health Service

Shop No. 10/2. Ground Floor, Cuncolim Market Complex, Below Cuncolim Muncipal Hall, Cuncolim Salcete Goa. Mob. 7350188225

Name; ARUN THAKUR

Age: 45 yrs

Sex: MALE

Address: Malco energy

Identification marks: Mole over the left chick Personal History:

1. Smoking: No

3. Drug addiction: No 5. Gambling: No

2. Alcohol: Yes

4. Tobacco Chewing: Yes 6. Nutrition: Normal

Marital Status: Married

Children: 4

Family planning: Temporary method

Hobbies NIL

History of

Frequent colds/ Sneezing	Nil	Recent loss of weight	Nil
Urinary Disturbances	Nil	Impaired hearing	Nil
Chronic cough	Nil	Ear discharge	Nil
Shortness of breath	Nil	Backache	Nil
Chest pain/ pressure	Nil	Joint pain	Nil
Allergy to drug/ chemicals	Nil	Bowel Disturbance	Nil
Frequent headaches	Nil	Epilepsy	Nil
Visual Disturbances	Nil	Swelling of legs/ feet	Nil
Vertigo	Nil	Operation	Nil
Any other	Nil		

Details of above:_Nil_

Disease	Self	Father	Mother	Other
1. Heart disease/ Hypertension	Nil	Nil	Nil	Nil
Diabetes	Nil	Nil	Nil	Nil
Tuberculosis	Nil	Nil	Nil	Nil
Bronchial Asthma	Nil	Nil	Nil	Nil
Epilepsy	Nil	Nil	Nil	Nil
Arthritis/Rheumatism	Nil	Nil	Nil	Nil
Cancer	Nil	Nil	Nil	Nil
Kidney Disorder	Nil	Nil	Nil	Nil
Liver Disease	Nil	Nil	Nil	Nil
Skin Diseases	Nil	Nil	Nil	Nil
Allergies	Nil	Nil	Nil	Nil
Accidents	Nil	Nil	Nil	Nil
Any other	Nil	Nil	Nil	Nil





WPMJY1

Sr No

:19759

:Male

Advised Date

:13/03/2024 10:38:27 AM

Name Age Gender

:Mr. Arun Thakur

Patient Code :PH0004523296

:45 (Y)

Referred By Medical Facility :Dr. POONAM DESSAI

COMPLETE BLOOD COUNT

Test	Result	Unit	BRI/RangeValue
HAEMOGLOBIN (Hb)	14.0	gm/dl	13 - 17
TLC (Total Leucocyte Count)	4500	/cumm	4000 - 10000
DIFFERENTIAL LEUCOCYTE COUNT			
NEUTROPHIL	51	%	40 - 70
LYMPHOCYTES	40	%	20 - 40
EOSINOPHILS	06	%	1 - 6
MONOCYTES	02	%	2 - 10
BASOPHILS	01	%	0 - 1
RBC Count	4.5	millions/cmm	3.8 - 4.8
P.C.V. / HEMATOCRIT	45	%	40 - 50
M C V (Mean Corp Volume)	100.00	fL	83 - 101
M C H (Mean Corp Hb)	31.11	pg	27 - 32
M C H C (Mean Corp Hb Conc)	31.11	g/dL	31.5 - 34.5
PLATELET COUNT	215	Thou/mm3	150 - 410

BIOCHEMISTRY ROUTINE

Test	Result	Unit	BRI/RangeValue
BLOOD SUGAR RANDOM	132	mg/dl	70 - 140
LOOD UREA	25	mg/dl	13 - 45
ERUM CREATININE	0.8	mg/dl	0.7 - 1.4
	25	U/L	< 45
GPT (ALT)	43	0.0	

Sr Lab Technician

Cons Pathologist MBBS , MD

Sime



Sr No Name

Age

Gender

:19759

:Mr. Arun Thakur

:45 (Y) :Male

Advised Date Patient Code

Referred By

Medical Facility

:13/03/2024 10:38:27 AM

:PH0004523296

:Dr. POONAM DESSAI

BILIRUBIN PROFILE

Test	Result	Unit	BRI/Range Value
TOTAL BILIRUBIN	0.3	mg/dl	0.3 - 1.2
DIRECT BILIRUBIN	0.2	mg/dl	0.0 - 0.2
INDIRECT BILIRUBIN	0.10	mg/dl	< 1.1

LIPID PROFILE

Test	Result	Unit	BRI/RangeValue
TOTAL CHOLESTEROL	135	mg/dl	0 - 200
TRIGLYCERIDES	142	mg/dl	0 - 150
HDL CHOLESTEROL	57	mg/dl	> 40
LDL CHOLESTEROL	49.60	mg/dl	< 100
VLDL	28.40	mg/dl	< 30
TOTAL / HDL CHOLESTEROL RATIO	2.37		0 - 4.97
LDL / HDL CHOLESTEROL RATIO	0.87		0 - 3.88

URINE ROUTINE EXAMINATION

Test	Result	Unit	BRI/RangeValue
URINE ROUTINE EXAMINATION			
'HYSICAL EXAMINATION			
COLOUR	PALE YELLOW		
TRANSPARENCY	CLEAR		
CHEMICAL EXAMINATION			
PH	5.2		4.7 - 7.5
SPECIFIC GRAVITY	1010		
URINE SUGAR	NIL		
URINE PROTEIN	NOT DETECTED)	

Sr Lab Technician

Cons Pathologist MBBS, MD

Suma



Sr No

:19759

Advised Date

:13/03/2024 10:38:27 AM

Name

:Mr. Arun Thakur

:PH0004523296

Age

:45 (Y)

Patient Code Referred By

:Dr. POONAM DESSAI

Gender

:Male

Medical Facility

URINE BILIRUBIN

NIL

URINE KETONE BODIES

NIL

UROBILINOGEN

NORMAL

BLOOD

NIL

LEUCOCYTE

NEGATIVE

NITRATE

NEGATIVE

MICROSCOPIC EXAMINATION

PUS CELLS

0-5

/hpf

EPITHELIAL CELLS

1-2

/hpf

RBC

0-1

CRYSTALS

NIL

CASTS

NIL

BACTERIA

NOT SEEN

YEAST BUDDING CELLS

NOT SEEN

OTHERS

NIL

X-RAY CHEST

X-RAY CHEST PA VIEW

Lung fields do not reveal any active parenchymal pathology.

Both hilar shadows appear normal.

Cardiac size and silhouette appear normal.

Both costophrenic angles are normal.

Soft tissues and bones underview appear normal.

DR. CHARCIDUTT SAMBHAJI MBBS, M.D. (RADIODIAGNOSIS) G.M.C. Reg. No. 1083

End of Report

Sr Lab Technician

Cons Pathologist MBBS, MD



Mr. ARUN THAKUR

Salcette..

403601

PIN No:

PID NO: P38923520258559

Age: 45 Year(s)

Sex: Male



Reference: SELF

Sample Collected At:

Molu Diagnostics

Shop No-2, New Market Complex, Phase 2, Below Community Hall, Cuncolim Goa,-403703.

Processing Location:- Metropolis

Healthcare Ltd. Hi-Life

Building, Borda, Margao, Goa-403 601.

VID: 230321505507359 Registered On: 13/03/2024 12:03 PM Collected On: 13/03/2024 12:01PM Reported On:

13/03/2024 02:46 PM

Investigation

Observed Value

Biological Reference Interval

Blood Group ABO & Rh Typing (EDTA Whole Blood., Manual Slide Method)

Blood group (ABO typing)

AB

RhD factor (Rh typing)

Positive

Method: Column agglutination technology (CAT) is an automated. System for blood grouping which is superior in sensitivity to conventional tube method.

-- End of Report --

MOLU DIA

Shop No. 10/2, New Muncipal Market Complex, Phase II, Cuncolim. Salcette - Goa.

Patient: Arun Thakur

Refd. By:

Pred.Eqns: RECORDERS

Date : 13-Nar-2024 11:52 AM

Height : 160 Cms

Weight : 56 Kgs

: 45 Years

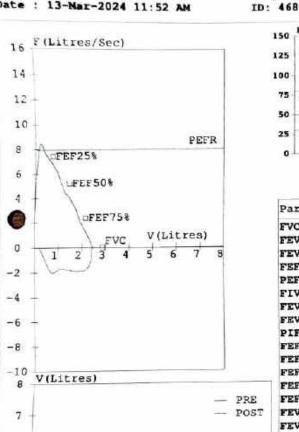
Gender

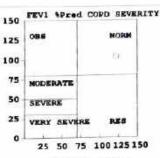
: Male : No

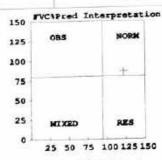
Smoker Eth. Corr: 100

Temp :





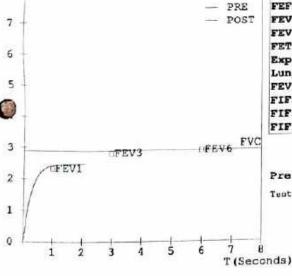




(FEV1/FVC) AFred

(FEV1/FVC) SPred

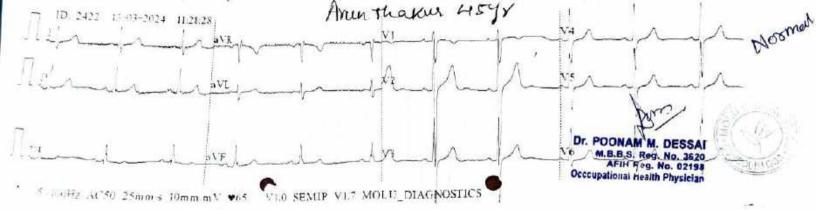
		Sp	irometr	y (FVC	Results)		
Parameter		Pred	M.Pre				# Imp
FVC	(L)	02.88	02.47	086			
FEV1	(L)	02.32	02.42	104			
FEV1/FVC	(%)	80.56	97.98	122			
FEF25-75	(L/s)	03.52	04.34	123			
PEFR	(L/s)	07.96	08.37	105			
FIVC	(L)		02.25				
FEV.5	(L)		02.11				
FEV3	(L)	02.79	02.47	089			
PIFR	(L/s)		02.03				
FEF75-85	(L/s)		01.79				
FEF . 2-1 . 2	(L/s)	06.04	06.44	107			
FEF 25%	(L/s)	07.43	07.01	094	-		
FEF 50%	(L/s)	05.21	04.51	087			
FEF 75%	(L/s)	02.38	02.44	103			
FEV.5/FVO	(%)		85.43				
FEV3/FVC	(%)	96.88	100.00	103			
FET	(Sec)		02.13				
ExplTime	(Sec)		00.02				
Lung Age	(Yrs)	045	043	096			
FEV6	(L)	02.88		080			
FIF25%	(L/s)		01.81				
FIF50%	(L/s)		01.83	-			
FIF75%	(L/s)		01.77			-	



Pre Test COPD Severity

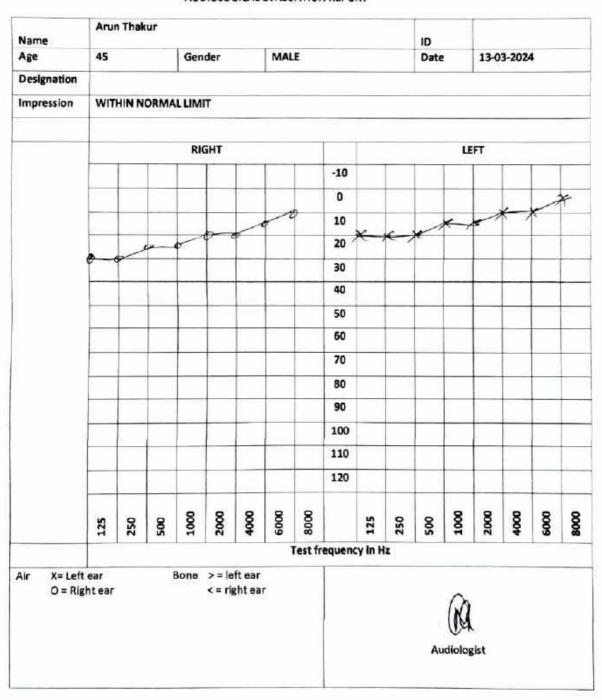
Test within normal limits

Pre Medication Report Indicates Spirometry within normal limits as (FEV1/FVC) tPred >95 and FVCtPred >80.





AUDIOLOGICAL EVALUATION REPORT



Boiler Chimney





Sodium Sulphate Evaporation Plant for Process water treatment







Reactor repairs







GOA STATE POLLUTION CONTROL BOARD FORM V

(See Rule 14)

Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.

PART A

Name and address of the owner/ occupier of **(i)** the industry operation or process

SUMIT GUPTA

Industry category Primary-(STC Code) Secondary-(STC Code) (ii)

RED, Miscellaneous Red

(iii) Production capacity Tonnes

Production Name	Production Capacity	Production Unit
Nickel, Cobalt & Copper Metal & its Salts	630	Metric Tonnes/Month
Zinc Sulphate Solution	5	Metric Tonnes/Month
Sodium Sulphate Crystals	810	Metric Tonnes/Month
Manganese Sulphate Solution and Crystal	100	Metric Tonnes/Month

Year of establishment 1996 (iv)

Date of the last environment statement **(v)**

submitted

29/08/2022

PART B

1. Water consumption m3/d

Process: 34 Cooling: NIL Domestic: 24

Name of products	Process water consumption per unit of product output				
	During the previous financial year	During the current financial year			
Nickel, Cobalt & Copper Metal & its Salts	NIL	8.04			

2. Raw material consumption

Name of raw materials	Name of products	Consumption of raw material per unit		
		During the previous financial year	During the current financial year	

precipitate copp sal sol	kel cobalt and er metal and its s Zinc sulfate ution, Sodium ohate MnSO4	3564.601
--------------------------------	--	----------

^{*}Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.

PART C

Pollution discharged to environment/ unit of output.

Pollution	Quantity of pollutants discharged(mass/day)	Concentration of pollutants in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons
Water	NIL	NIL	NIL
Air	NIL	NIL	NIL

Name of Pollutants: S02 and SPM from boiler stack.

PART D Hazardous Wastes

(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Wastes	Total Qua	antity (Kg)
	During the previous financial year	During the current financial year
(a) From process	NIL	NIL
(b) From pollution control facilities	NIL	NIL

PART E Solid Wastes

	Total Quantity		
	During the previous financial year	During the current financial year	
(a) From process	NIL	NIL	
(b) From pollution control facility	NIL	NIL	
(c)(1) Quantity recycled or re-utilised within the unit	NIL	NIL	
(2) Sold	NIL	NIL	
(3) Disposed	NIL	NIL	

PART F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes Hazardous waste generated during the industry process are (1) Process residue(solid) and used/spent oil. (liquid)

disposal: To be disposed in CHWTSDF. /Authorized recyclers. .

PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production Using clean fuel (briquettes) for boiler firing.

Chimney replacement has been done.

Stacking monitoring as per requirement.

Greenbelt development at industry premises.

.

PART H

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution Acid proof lining has been provided.

water quality monitoring as per the requirement.

PART I

Any other particulars for improving the quality of the environment Acid proof lining has been provided. water quality monitoring as per the requirement Construction of dyke-walls for liquid storage tanks is provided.

Remarks : We are using clean fuel for firing the boiler burners. Which results into reduction of generation of Greenhouse gas emissions. .