



# Prakash Industries Limited



(AN ISO 9001, 14001, 45001 AND 50001 Certified Company)  
Champa-495671, Distt. - Janjgir-Champa (Chhattisgarh)  
CIN: L27109HR1980PLC010724  
Phone: 07819-283000 (12 Lines)  
Fax: 07819-245367/283594, Web. - www.prakash.com

PIL/EHS/ENV/MoEF&CC/2023/828

Date : 03.11.2023

The Addl. Director General of Forest,  
Ministry of Environment, Forests and Climate Change (MoEF&CC),  
Integrated Regional Office,  
Aranya Bhawan, North Block, Sector-19,  
Nava Raipur, Atal Nagar, Raipur (C.G.) 492002

**Sub:** Six Monthly Environment Clearance Compliance Status Report along with Monitoring Data for Ambient Air, Water, Noise and Stack Emissions etc.

**Ref.:** 1. Environment Clearance no. J-11011/522/2008-IA II (I) dtd 03.11.2010 & subsequent Extension of validity of Environmental Clearance dtd 07.08.2019.

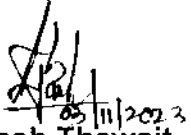
Sir,

This has reference to the above subject matter. Please find enclosed herewith six monthly Environmental Clearance Compliance status report alongwith Environmental Monitoring Data for Ambient Air, Water, Noise, Stack Emission, Solid Waste, Expenses for Environmental Management & Corporate Social Responsibility and Green Belt development details for the period of April 2023 to September 2023.

We hope you will find the above in order.

Thanking you,

Yours faithfully,  
For PRAKASH INDUSTRIES LIMITED,

  
Santosh Thawait  
Asst. General Manager - EHS

Encl. : As above.

CC TO:

The Member Secretary,  
Chhattisgarh Environment Conservation  
Board (CECB), Paryavas Bhawan,  
North Block, Sector - 19, Nava Raipur,  
Atal Nagar, Raipur (C.G.) 492002

The Regional Director,  
Central Pollution Control Board (CPCB),  
Parivesh Bhawan, E-5, Paryavaran Parisar,  
Arera Colony, Bhopal (M.P.) 462016

The Regional Officer,  
Chhattisgarh Environment Conservation Board (CECB),  
Near Dindayal Upadhyay Park, Vyapar Vihar, Bilaspur (C.G.) 495001

Head Office : Near I.O.C.L. Depot Main Najafgarh Road, Bijwasan, New Delhi-110061  
Regd. Office : 15 Km stone, Delhi Road, Hissar-125 044(Haryana) INDIA

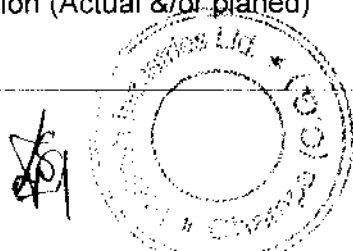
**Monitoring for the Implementation of Environmental Safeguards**  
**Ministry of Environment, Forest & Climate Change**  
**Regional Office, Raipur**

**MONITORING REPORT**  
**PART – I**  
**DATA SHEET**

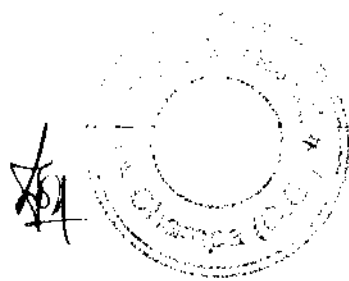
Sl. No.	Particulate	Descriptions
1	Project type: River- valley/ Mining/ Industry/ Thermal/ Nuclear/ Other (Specify)	Industry – Integrated Steel Plant comprising of Sponge Iron, Power and Steel Manufacturing
2	Name of the project	Sponge, Power, Bloom, Billet, Ferro alloys, Sinter and Oxygen Plant
3	Clearance letter (s)/ OM No. and date	NO. J-11011/522/2008-IA.II (I) dtd. 03.11.2010 & subsequent Extension of Validity of Environmental Clearance dtd 07.08.2019.
4	Location: a) District (s) b) State (s) c) Location Latitude/Longitude	Janjgir – Champa Chhattisgarh – 495671 Latitude: 22° 00' 16.74"N, Longitude: 82° 40' 11.35"E,
5	Address for correspondence a) Address of the Concerned Project Chief Engineer (with Pin Code, Email & telephone/telex/fax numbers)  b) Address of the Executive Projects Engineer/Manager (with Pin Code & telephone/telex/fax numbers)	Sh. Sanjay Jain Director, Vill. - Hathneora, P.O. - Champa, Tehsil - Champa, Dist.- Janjgir-Champa, Chhattisgarh Pin Code- 495671 Email- sanjayjain@prakash.com Telephone (O): 07819-283000, Fax: 07819-245367  Sh. Santosh Thawait Asst. General Manager – EHS Vill. - Hathneora, P.O. - Champa, Tehsil - Champa, Dist.- Janjgir-Champa, Chhattisgarh Pin Code- 495671 Email- ehs@prakash.com Telephone (O): 07819-283000, Fax: 07819-245367
6	Salient features a) Of the project b) Of the Environmental management plans	As per annexure- XI As per annexure- XII
7	Break up of the project area a) Submergence area: forest & non forest b) Others	Non forest. These projects are setup on 601.52 Acres of land.
	a. Total Plot Area	601.52 Acres
	b. Built – Up Area (Including Road)	203.52 Acres
	c. Open Space available	168 Acres
	d. Green belt area	230 Acres
8	Break up of the project affected population with enumeration of those losing houses/dwelling units only, agricultural land only both dwelling units & agricultural land & landless laborers/artisans/ a) SC, ST/Adivasi	No population has affected adversely as the Plant is installed in available land area of 601.52 Acres already in possession. No R & R issues involved.



	<p>b) Others</p> <p>(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey carried out give details &amp; year of survey)</p>	Not Applicable.										
9	<p>Financial details:</p> <p>a) Projects cost as originally planned and subsequent revised estimates and the year of price reference.</p> <p>b) Allocation made for environmental management plans with item wise and year wise break-up</p> <p>c) Benefit cost ratio/Internal rate of Return and the year of assessment</p> <p>d) Whether (c) includes the cost of environmental management as shown in the above</p> <p>e) Actual expenditure incurred on the projects so far</p> <p>f) Actual expenditure incurred on the environmental management plans so far</p>	<p>The capital cost of the existing plant (Integrated Steel Plant) as on 31-03-2023 is 4333 Crores (Sponge Iron, West Heat Recovery Boiler, Captive Power Plant, Steel Manufacturing, Sinter Plant, Oxygen Plant &amp; Submerged Arc Furnace Division).</p> <p>The cost of environmental protection measures would be an annual recurring cost of Rs. 20.0 Cr.</p> <p>IRR 10%, Assessment year – 2008.</p> <p>----</p> <p>----</p> <p>----</p>										
10	<p>Forest land requirement:</p> <p>a) The status of approval for diversion of forest land for non-forestry use</p> <p>b) The status of clearing felling</p> <p>c) The status of compensatory afforestation programme in the light of actual field experience</p> <p>d) Comments on the viability &amp; sustainability of compensatory afforestation program in the light of actual field experience so far</p>	<p>The Plant has setup on existing Government Revenue land of 601.52 Acres. No Forest land is required.</p> <p>Not Applicable.</p> <p>Not Applicable.</p> <p>Not Applicable.</p>										
11	<p>The status of clear felling in non-forest area (Such as submergence area of reservoir, Approach roads), if any with quantitative information.</p>	Not Applicable.										
12	<p>Status of construction (Actual &amp;/or planned)</p> <p>a) Date of commencement (Actual &amp;/or planned)</p> <p>b) Date of completion (Actual &amp;/or planned)</p>	<p>Existing Plant &amp; Capacities:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Plant</th> <th>Capacity</th> <th>Date of commencement of Production</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Kiln-1 &amp; WHRB-1</td> <td>2.0 LTPA &amp; 12.5 MW</td> <td>01-11-1993</td> </tr> </tbody> </table>			Sl. No.	Plant	Capacity	Date of commencement of Production	1	Kiln-1 & WHRB-1	2.0 LTPA & 12.5 MW	01-11-1993
Sl. No.	Plant	Capacity	Date of commencement of Production									
1	Kiln-1 & WHRB-1	2.0 LTPA & 12.5 MW	01-11-1993									

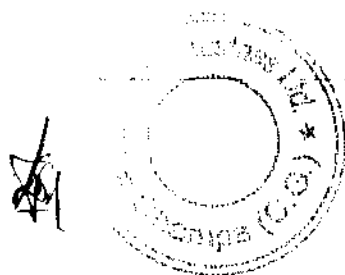


2	Kiln-2 & WHRB-2	2.0 LTPA & 12.5 MW	08-07-1996
3	Kiln-3 & WHRB-3	2.0 LTPA & 12.5 MW	12-12-2009
4	Kiln-4 & WHRB-4	2.0 LTPA & 12.5 MW	15-02-2012
5	Kiln-5 & WHRB-5	2.0 LTPA & 12.5 MW	14-06-2017
6	Kiln-6 & WHRB-6	2.0 LTPA & 12.5 MW	15-10-2019
Total = Sponge Iron – 12.0 LTPA & Co-generation of Power Plant based on WHRB – 75 MW.			
7	FBB – 1	12.5 MW	01-08-1999
8	FBB – 2&3	50 MW	01-03-2005
9	FBB – 4	25 MW	01-09-2011
10	FBB – 5	25 MW	01-03-2012
11	FBB – 6	25 MW	01-03-2012
12	FBB – 7	25 MW	20-04-2012
Total = Captive Power Plant – 162.5 MW			
13	Steel Manufacturing (Induction Furnace no – 01 to 25 nos.)	7.5 LTPA	17-10-1993 25-09-1997 17-08-2009 09-04-2010
14	Induction Furnace no – 26	0.40 LTPA	25-09-2013
15	Induction Furnace no – 27	0.50 LTPA	19-10-2013
16	Induction Furnace no – 28 & 29	1.0 LTPA	01-12-2013 01-01-2014
Amendment in consent for capacity from 9.40 LTPA to 10.0 LTPA on 06-10-2018			
17	Induction Furnace no – 30,31&32	1.32 LTPA	28-10-2019
18	Induction Furnace no – 33	0.44 LTPA	28-10-2019
19	Induction Furnace no – 34 & 35	0.74 LTPA	01-11-2020
Total = Steel Manufacturing – 12.5 LTPA (From 35 Nos Induction Furnaces)			
20	SAF – 1	7500 KVA	22-11-2004
21	SAF – 2	7500 KVA	11-02-2005
22	SAF – 3	7500 KVA	20-07-2005
23	SAF – 4	7500 KVA	18-10-2008



24	SAF – 5	7500 KVA	21-06-2013
25	SAF – 6	7500 KVA	21-06-2013
26	SAF – 7	7500 KVA	04-03-2015
27	SAF – 8	7500 KVA	06-06-2015
28	SAF – 9	7500 KVA	17-02-2017
Total = Submerged Arc Furnace – 9 nos x 7500 KVA (Capacity – 1,15,000 Ton per Annum)			
29	Sinter Plant	1.0 LTPA	08-01-2020
30	Oxygen Plant	08 TPD	08-01-2020

13	Reason for the delay   the project is yet to start.	No Delay : Plant in operation.
14	Dates of site visits a) The dates on which the Project was monitored by Regional Office on previous occasions, if any b) Date of site visit for this monitoring Report	29-10-2013 and 20-01-2018.  25-07-2022, 21-03-2023 and 21-07-2023.
15	Details of correspondence with project authorities for obtaining action plan / information on status of compliance to safeguard other than the routine letter for logistic support for site visit. (The monitoring report may obtain the details of all the letter issued so far but the later report may cover only the letter issued subsequently)	<p>Details are as under:-</p> <p>MoEF&amp;CC letter no. 5-76/2010 (Env) / 352 09.05.2016.</p> <p>Our letter. PIL/EHS/ENV/MoEF/2018/1522 dtd. 24.01.2018 (Information letter submitted).</p> <p>Our letter. PIL/EHS/ENV/MoEF/2019/1774 dtd. 14.05.2019, PIL/EHS/ENV/MoEF&amp;CC/2019/1869 dtd. 06.11.2019. (Six Monthly Compliance Reports Submitted)</p> <p>PIL/EHS/ENV/MoEF&amp;CC/2020/32 dtd. 20.05.2020, PIL/EHS/ENV/MoEF&amp;CC/2020/ 109 dtd. 27.10.2020, (Six Monthly Compliance Reports Submitted)</p> <p>PIL/EHS/ENV/MoEF&amp;CC/2021/200 dtd. 24.04.2021, PIL/EHS/ENV/MoEF&amp;CC/2021/ 318 dtd. 26.10.2021, (Six Monthly Compliance Reports Submitted)</p> <p>PIL/EHS/ENV/MoEF&amp;CC/2022/440 dtd. 03.05.2022, (Six Monthly Compliance Reports Submitted)</p> <p>MoEF&amp;CC letter no. 5-81/2009 (Env) / 785 01.07.2022.</p> <p>Our letter. PIL/EHS/ENV/MoEF&amp;CC/2022/501 dtd. 14.07.2022, PIL/EHS/ENV/MoEF&amp;CC/2022/ 520 dtd. 06.08.2022. (Information letter submitted)</p> <p>MoEF&amp;CC letter no. 5-76/2009 (Env) / 890 24.08.2022.</p> <p>Our letter. PIL/EHS/ENV/MoEF&amp;CC/2022/559 dtd. 13.10.2022 (Information letter submitted)</p> <p>PIL/EHS/ENV/MoEF&amp;CC/2022/575 dtd. 01.11.2022, PIL/EHS/ENV/MoEF&amp;CC/2022 /718 dtd. 20.05.2023, (Six Monthly Compliance Reports Submitted)</p>



## Prakash Industries Limited, Champa

### Compliance status on Environmental Clearance Vide letter No. J – 11011/522/2008-IA II (I) dated 03.11.2010 and Subsequent Extension of validity of Environmental Clearance dtd 07.08.2019

Sl. No	Condition No	Condition as per Environmental Clearance dtd 03.11.2010 and Subsequent Extension of validity of Environmental Clearance dtd 07.08.2019	Current status of Compliance																																																				
2		The Ministry of Environment and Forests has examined the application for the above project. It is noted that M/s Prakash Industries Ltd. have proposed for the expansion of Integrated Steel Plant at Village Hathneora, Janjgir- Champa in Chhattisgarh. Total project area is 601.52 acres and expansion will be carried out in the existing plant area. No additional land is required. Green belt will be developed in 159 acres of plant area. No national park / wild life sanctuary / eco-sensitive area is located within 10 km radius. Total cost of the project is Rs. 2,240.0 Crores. Rs. 100.0 Crores and Rs. 20 Crores will be earmarked towards capital cost and recurring cost/annum for environmental protection measures.	Project proponent has consented to the conditions.																																																				
3		<p>Following are the details of existing and proposed plants.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Units</th> <th style="text-align: center;">Existing capacity</th> <th style="text-align: center;">Proposed Capacity</th> <th style="text-align: center;">Total capacity</th> </tr> </thead> <tbody> <tr> <td>Sponge Iron plant</td> <td style="text-align: center;">0.7 MTPA</td> <td style="text-align: center;">1.3 MTPA</td> <td style="text-align: center;">2.0 MTPA</td> </tr> <tr> <td>Captive Power plant</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Co-generation power plant(WHRB)</td> <td style="text-align: center;">37 MW</td> <td style="text-align: center;">63 MW</td> <td style="text-align: center;">100 MW</td> </tr> <tr> <td>Coal based power plant</td> <td style="text-align: center;">87.5 MW</td> <td style="text-align: center;">100 MW</td> <td style="text-align: center;">187.5 MW</td> </tr> <tr> <td>BF gas based power plant</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">20 MW</td> <td style="text-align: center;">20 MW</td> </tr> <tr> <td><b>Total</b></td> <td style="text-align: center;"><b>124.5 MW</b></td> <td style="text-align: center;"><b>183 MW</b></td> <td style="text-align: center;"><b>307.5 MW</b></td> </tr> <tr> <td>Ingots/Billets/Blooms</td> <td style="text-align: center;">1.0 MTPA</td> <td style="text-align: center;">1.0 MTPA</td> <td style="text-align: center;">2.0 MTPA</td> </tr> <tr> <td>TMT/Wire rod mill</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">0.6 MTPA</td> <td style="text-align: center;">0.6 MTPA</td> </tr> <tr> <td>Blast Furnace</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">1.0 MTPA from 4x350 m<sup>3</sup> Blast furnace</td> <td style="text-align: center;">1.0 MTPA</td> </tr> <tr> <td>Ferro alloy plant</td> <td style="text-align: center;">9 x 7.5 MVA (1,15,000 TPA)</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">9 x 7.5 MVA (1,15,000 TPA) submerged furnace (SAF) arc</td> </tr> <tr> <td>Sinter plant</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">1.45 MTPA</td> <td style="text-align: center;">1.45 MTPA</td> </tr> <tr> <td>Oxygen plant</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">800 TPD</td> <td style="text-align: center;">800 TPD</td> </tr> </tbody> </table>	Units	Existing capacity	Proposed Capacity	Total capacity	Sponge Iron plant	0.7 MTPA	1.3 MTPA	2.0 MTPA	Captive Power plant				Co-generation power plant(WHRB)	37 MW	63 MW	100 MW	Coal based power plant	87.5 MW	100 MW	187.5 MW	BF gas based power plant	Nil	20 MW	20 MW	<b>Total</b>	<b>124.5 MW</b>	<b>183 MW</b>	<b>307.5 MW</b>	Ingots/Billets/Blooms	1.0 MTPA	1.0 MTPA	2.0 MTPA	TMT/Wire rod mill	Nil	0.6 MTPA	0.6 MTPA	Blast Furnace	Nil	1.0 MTPA from 4x350 m <sup>3</sup> Blast furnace	1.0 MTPA	Ferro alloy plant	9 x 7.5 MVA (1,15,000 TPA)	Nil	9 x 7.5 MVA (1,15,000 TPA) submerged furnace (SAF) arc	Sinter plant	Nil	1.45 MTPA	1.45 MTPA	Oxygen plant	Nil	800 TPD	800 TPD	<p>Project proponent has consented to the conditions.</p> <p>Existing capacity is in reference with EC Vide letter no. J-11011/128/2004-IA II (I) dated 27.01.2005 &amp; Proposed capacity is according to EC Vide letter no. J-11011/522/2008-IA II (I) dated 03.11.2010 and subsequent Extension of validity of Environmental Clearance dtd 07.08.2019.</p> <p>Present status is as below:- Sponge Iron plant : - 12.0 LTPA Captive power plant : - Co-generation of power plant (WHRB) : - 75.0 MW Coal based power plant :- 162.5 MW Ingots/Billets/Blooms:-12.5 LTPA Ferro alloy plant :- 9 nos x 7500 KVA Sinter plant :- 1.0 LTPA Oxygen plant :- 8 TPD</p>
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4		It is noted that ESP will be provided to WHRB, CPP, DRI Kiln and Sinter Plant to control particulate emissions less than 50 mg/Nrn <sup>3</sup> . Dust settling chamber (DSC) for settling the dust and After Burning Chamber (ABC) for burning CO will be provided and gases will be passed through WHRB to generate power. Fume	<p>Complied.</p> <p>Project proponent has provided ESPs in DRI Kiln &amp; WHRB and CPP to control particulate emissions less than 50 mg/Nrn<sup>3</sup>. Installed dust settling</p>																																																				

## Prakash Industries Limited, Champa

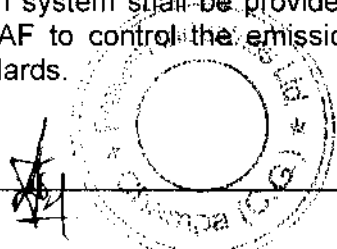
	<p>Extraction System to SMS and SAF will be provided. DRI kiln and blast furnace gas will be used in WHRB to produce power. Water sprinkling devices will be installed to suppress the dust at material storage yard. Closed conveyors and bag houses will be provided to reduce fugitive dust emissions. Dust extraction system will be provided to raw material handling system. Bag filters will be provided at all junction houses, crushing and screening plants for iron ore, coal and dolomite. Dry fog dust suppression system will be provided to raw material handling unit and dump yard. Venturi scrubber to control the emission from the blast furnace will be installed and water required for the same will be met from the River Hasdeo.</p>	<p>chamber (DSC) for settling the dust and After Burning Chamber (ABC) for burning CO and there after the gases are passed through WHRB to generate power. PP has established ESP at Captive Power Plant. PP has established venturi scrubbers for fume extraction &amp; bag filter in Steel Melting Shop (SMS) and bag filters are installed in SAF for the same purpose. Installed Venturi Scrubber system in Sinter plant. Water sprinkling devices are installed to suppress the dust at material storage yard. Closed conveyors and bag houses are provided to reduce fugitive dust emissions. Dust extraction systems are provided at raw material handling system. Bag filters are provided at all junction houses, crushing and screening plants of iron ore, coal and dolomite. Dry fog dust suppression systems have been provided at raw material handling unit and dump yard. The supply of required water is being obtained from River Hasdeo.</p>
5	<p>Total water requirement for the proposed expansion will be 18.25 MCM/annum and will be met from the river Hasdeo. Re-circulating cooling system will be used to conserve water. ETP will be installed for the treatment of wastewater. All the treated wastewater will be fully recycled. The wastewater from Gas Cleaning Plant of Blast Furnace containing suspended solids will be treated in ETP. Cooling tower blow down water after treatment in ETP will be used for dust suppression in the plant premises. Treated STP waste water will be used for green belt development. There will be zero discharge of effluent.</p>	<p>Complied.</p> <p>Total requirement of the Water is being fulfilled from river Hasdeo. Project proponent has already provided ETP capacity 19200 m<sup>3</sup>/day for the treatment of waste water and treated water are being used for dust suppression in the plant premises and re-circulating cooling systems have been provided to conserve water. PP has already provided STP 500 m<sup>3</sup>/day for the treatment of domestic waste water and treated water are using for green belt development. Plant is maintaining 'Zero' discharge condition.</p>
6	<p>Coal and char will be used in FBC boiler. BF slag will be granulated in slag granulation plant and provided to cement manufacturers. Coke breeze, fuel dust, mill scales will be used in Sinter plant. Scales from the rolling mill will be used in sinter plant. The fly ash and bottom ash will be used for brick and road making or will be sold to Cement plants. ESP dust will be used in fly ash bricks and also for back filling in mines. Accretion material and wet scrubber dust will be used in road making. The slag from the steel melting shop will be given for metal recovery and dust will be reused in the sinter plant. Spent oil and lubricants will be given to authorized re-processors. DRI kiln, BF gas will be used as fuel to generate power. LDO / HFO will be used as fuel.</p>	<p>Complied.</p> <p>Project proponent has been using coal as well as char in FBC boiler. The fly ash and bottom ash are using for brick and road making. ESP dust is used in manufacturing of fly ash bricks and also used for back filling in mines. Accretion material and wet scrubber dust are using in road making. The slag from the steel melting shop is used for metal recovery and dust is reused in the road making. Mill scale is used in sinter plant. Spent oil and Used lubricants are disposed of to</p>

## Prakash Industries Limited, Champa

			authorized re-processors. Hot gases obtained from DRI kilns are being used as fuel to generate the power in Waste Heat Recovery Boilers (WHRB). LDO / HFO are using as fuel in emerging.
7		All the Integrated Steel plants are listed at S. No. 3(a) under Category 'A' of the Schedule of EIA Notification, 2006 and appraised at the Central level.	Project proponent has consented to the condition.
8		The proposal was considered by the Expert Appraisal Committee-1 (industry) in its 14th meeting held during 23 <sup>rd</sup> - 25 <sup>th</sup> September, 2010. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions.	Project proponent has consented to the conditions.
9		Based on the information submitted by you, presentation made by you and consultant, EMTRC, Consultants Pvt. Ltd, New Delhi. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006- subject to strict compliance of the following specific and general conditions:	Project proponent has consented to the conditions.

### A. SPECIFIC CONDITIONS:

	i.	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), gas cleaning plant, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm <sup>3</sup> by installing energy efficient technology.	Complied.  Project proponent has provided bag filters, dust extraction system, wet spray system, dry fogging system to reduce fugitive emission. Four on-line Ambient Air Quality Monitoring (AAQM) systems and continuous stack monitoring facilities such as opacity meters & gas analyzers are provided in the stacks. PP has already installed ESP, Bag filters to keep the emission below 50 mg/Nm <sup>3</sup> . Environmental monitoring is being carried out by the MoEF&CC accredited laboratory "Ultimate Envirollytical Solutions Raipur". Parameters are within the prescribed norms. Datas on ambient air quality and stack emission are given in <b>Annexure - I (Colly.)</b> .
	ii.	As proposed, Electrostatic precipitator (ESP) shall be provide to sponge iron plant, WHRB, CFBC and dust catcher to blast furnace to control PM levels within 50 mg/ Nm <sup>3</sup> . Fume extraction system shall be provide to Induction furnaces and SAF to control the emissions within the prescribed standards.	Complied.  Project proponent has already provided ESP in SID, WHRB, CFBC plant and Fume extraction system & bag filter system in Induction Furnace Division, Venturi Scrubber System in Sinter plant and bag filters in Sub Merged Arc Furnace Division for

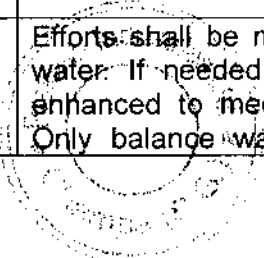




## Prakash Industries Limited, Champa

			control of the emission within the prescribed standards.
iii.	The National Ambient Air Quality Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16 <sup>th</sup> November, 2009 shall be followed.	Complied.	The National Ambient Air Quality Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16 <sup>th</sup> November, 2009 are being followed.
iv.	Gaseous emission levels including secondary fugitive emission from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed. Standards for the sponge iron plant issued by the Ministry vide G.S.R. 414 (E) dated 30 <sup>th</sup> May, 2008 shall be followed.	Complied.	Project proponent has provided adequate arrangements for control of source emission and are strictly following permissible limits issued by the Ministry and regular monitoring is also performed. Guidelines/Code of Practice issued by the CPCB are being followed. Standards for the sponge iron plant issued by the Ministry vide G.S.R. 414 (E) dated 30 <sup>th</sup> May, 2008 are also being followed. Monitoring of fugitive emission is being carried out by the MoEF&CC accredited laboratory "Ultimate Enviroltysical Solutions Raipur". Parameters are within the prescribed norms. Details of monitoring are given in <b>Annexure-II</b> .
v.	Total water requirement shall not exceed 18.25 MCM/annum. Necessary permission from the State Irrigation Department shall be obtained for drawl of water. The water consumption shall not exceed as per the standard prescribed for the steel plants. Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provide to reduce water consumption and water requirement shall be modified accordingly. All the effluent shall be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged and 'Zero' discharge shall be adopted. Sanitary sewage should be treated in septic tank followed by soak pit.	Complied.	Necessary permission from the state water resource department has been obtained for drawl of water vide letter no. 290/29/4/200/M/31/02/OJP/D-4 Raipur dtd. 14/1/2010 and additional sanction vide letter No. 5018/29/4/2000/M/31/OJP02/D-4, Naya Raipur dtd. 30.11.2016 for 1.825 MCM per Annum has also been obtained. Water consumption is as per prescribed standard. PP has also installed rain water harvesting system. PP has provided ETP capacity 19200 m <sup>3</sup> /day for treatment of industrial effluent water and treated water is using in ash conveying, handling dust separation. PP has also provided STP of 500 m <sup>3</sup> /day capacity for treatment of domestic effluent water and treated water is using in green belt development. Plant is maintaining 'Zero' discharge condition.
vi.	Efforts shall be made to make use of harvested rain water. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from	Complied.	Project proponent has already provided the rain water harvesting

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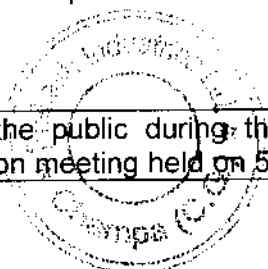
## Prakash Industries Limited, Champa

	other source.	system.
vii.	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhopal, Chhattisgarh Environment Conservation Board (CECB) and CPCB.	Complied. Monitoring and analysis are carried out and parameters are within the prescribed norms. Regularly submitting the monitoring reports to CECB, CPCB and MoEF. Monitoring and analysis of surface and ground water is being carried out by the MoEF&CC accredited laboratory "Ultimate Envirollytical Solutions Raipur". Parameters are within the prescribed norms. Details of water analysis data are given in enclosed <b>Annexure – III (Colly.)</b> .
viii.	The char from DRI plant shall be utilized in FBC boiler of power plant and no char shall be used for briquette making or disposal off anywhere else. FBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning. All the blast furnace (BF) slag shall be provided to the cement manufactures. Scrap shall be used in steel melting shop (SMS) and SMS slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.	Complied. Project proponent is using Char in FBC boiler of captive power plant. Scrap and metal recovered from slag is used in Induction Furnaces. SMS slag and Kiln accretions are used in road making. Properly disposing off the solid waste in safe and scientific manner.
ix.	In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant and coke sorting plant of coke oven plant. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.	Complied. Project proponent has provided bag filters, de-dusting and dust suppression system to control fugitive emission. Dust extraction and suppression system at all the transfer points, coal handling plant have been provided to control the emission. Water sprinkling systems have been provided to control secondary fugitive dust emission generated during screening loading, unloading, handling and storage of raw materials.
x.	Proper utilization of fly ash shall be ensured as per Fly ash notification, 1999 and subsequent amendment in 2003 & 2009.	Complied. Project proponent is strictly following fly ash notification, 1999 and subsequent amendment in 2003, 2009, 2016, 2019 & 2021 for proper utilization of fly ash.
xi.	Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	Complied. Project proponent has provided facility of spraying water through the tankers and sprinklers for control of vehicular pollution during transportation of raw material and finished products. Project proponent has provided bag filters to control dust emission in the units where loading and unloading of the



## Prakash Industries Limited, Champa

			raw materials and finished products are taken place.
xii.	All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.	Complied.	Project proponent has provided road sweeping machines for regular cleaning of all internal roads. Adequate plantation is done in the factory premises including plantation along the roads. PP has also made arrangement of parking of trucks carrying raw coal.
xiii.	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste should be submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB.	Complied.	Proper handling, storage, utilization and disposal of all solid waste are being performed. Regularly submitting the report to MoEF&CC, CPCB and CECB. Utilization of solid waste is given in <b>Annexure-IV</b> .
xiv.	A time bond action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	Complied.	Project proponent is complying for utilization and disposal of solid wastes.
xv.	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB within 3 months of issue of environment clearance letter.	Complied.	
xvi.	As proposed, green belt shall be developed in 33% of plant area as per the CPCB guidelines in consultation with the DFO.	Complied.	Project proponent has planted 3,26,640 saplings within the premises as per CPCB guidelines. PP always prefer local species for green belt development. Project proponent has consented to the conditions and abide to the decisions taken by MoEF&CC, GOI/CPCB/ Government of Chhattisgarh / CECB from time to time in this regard. Audit report of plantation (upto December 2021) was submitted in Six monthly compliance report for the period of October 2022 to March 2023 to MoEF&CC, CPCB & CECB vide PIL/EHS/ENV/MoEF&CC / 2023/718 dtd. 20.05.2023. Details of plantation is enclosed as <b>Annexure - V</b> .
xvii.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.	Complied.	Project proponent are complying CREP guidelines of Steel manufacturing Plant. Details enclosed as <b>Annexure - VI</b> .
xviii.	All the commitments made to the public during the Public Hearing / Public consultation meeting held on 5 <sup>th</sup>	Complied.	

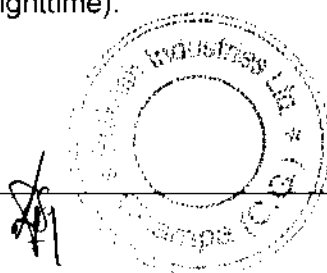


## Prakash Industries Limited, Champa

	March, 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal.	
xix.	At least 5% of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.	Complied.  Project proponent are keeping separate funds for implementation of the special conditions for environmental safeguards. The funds earmarked for the environmental protection measures have not been diverted for any other purposes. Details enclosed as <b>Annexure – VII.</b>
xx.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water medical health care, crèche etc. the housing may be in the form of temporary structures to be removed after the completion of the project.	Complied.  Project proponent informed that temporary huts for labours alongwith all necessary infrastructure were provided at the time of implementation of project. After completion of project now it has been dismissed & removed.

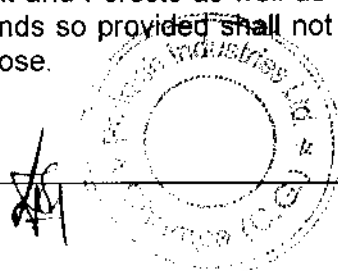
### **B. GENERAL CONDITIONS:**

i.	The project authority shall adhere to the stipulations made by Chhattisgarh Environment Conservation Board (CECB) and State Government.	Project proponent has consented to the conditions.
ii.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Project proponent has consented to the condition.
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> May, 1993 and standards prescribed from time to time. The CECB 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.	Complied.  Project proponent has installed four online Ambient Air Quality Monitoring (AAQM) systems and continuous stack monitoring facilities such as opacity meters & gas analyzers in the stacks and are also connected to the Board servers. PP has already installed ESP, Bag filters dust extraction system, wet spray system, dry fogging system to control emission.
iv.	The overall noise levels in and around the plant area should 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Complied.  Precautions for all the workers/officers are being taken to avoid any accompanist noised hazards. Facilities like ear plugs and ear muffs are being provided to reduce noise risk to all workers/ officers at work place. The ambient noise level remains within 75 dB (A) during daytime and 70 dB (A) during night time within factory premises. PP has taken adequate measures for control of noise levels



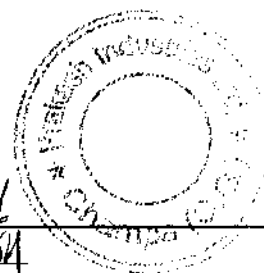
## Prakash Industries Limited, Champa

			below 85 dB(A) in the work environment. PPE's also provided to all employees who are working in high noise area. Monitoring of noise level is being carried out by the MoEF&CC accredited laboratory "Ultimate Envirollytical Solutions Raipur". Noise level monitoring results are enclosed as <b>Annexure-VIII</b> .
	v.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied.  Regular health surveillance is being conducted to all the workers and records are maintained as per the Factories Act. Enclosed as per <b>Annexure-IX</b> .
	vi.	All the environment management measures given in the EIA/EMP shall be implemented and complied with.	Project proponent has consented to the condition.
	vii.	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Complied.  Project proponent has already provided rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
	viii.	Proper housekeeping and adequate occupational health programmes shall be taken up as per the Factory Act.	Complied.  Project proponent is providing proper housekeeping and occupational health programmes as per the Factory Act.
	ix.	The company shall undertake eco-development measures including community welfare measures in the project area.	Complied.
	x.	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of senior Executive.	Complied.  Project proponent has set up an environmental cell to carry out the function related to environmental management under the control of senior executive with the support of qualified technical personnel. PP has also set up an environmental laboratory for collection and analysis of environmental samples under the supervision of competent technical personnel.
	xi.	The requisite funds shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and used judiciously 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.	Complied.  Project proponent is keeping separate funds for implementation of the conditions for environmental safeguards. The funds earmarked for the environmental protection measures are not been diverted for any other purposes. Fund allocated for environmental protection measures



## Prakash Industries Limited, Champa

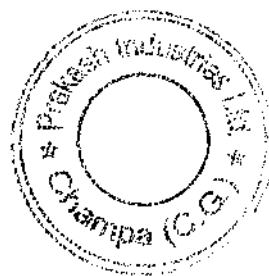
			and expenses occurred is enclosed herewith as <b>Annexure – X</b> .
xii.	The project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commissioning the land development work.		Project proponent has consented to the condition.
xiii.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Body and the local NGO, if any, from whom suggestions / representations, if any were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.		Complied.
xiv.	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, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (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.		Complied. Project proponent is regularly uploading six monthly compliance report in company's website : <a href="http://www.prakash.com">www.prakash.com</a> .
xv.	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 e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the CWCB. The Regional Office of this Ministry at Bhopal/CPCB/CECB shall monitor the stipulated conditions.		Complied. Six monthly report for the period of April 2022 to September 2022 was submitted to MoEF&CC, CPCB, CECB vide PIL/EHS/ENV/MoEF&CC/2022/575 dtd. 01.11.2022 and another Six monthly report for the period of October 2022 to March 2023 was submitted to MoEF&CC, CPCB, CECB vide PIL/EHS/ENV/MoEF&CC/2023/718 dtd. 20.05.2023.
xvi.	The environmental statement for each financial year ending 31 <sup>st</sup> 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 alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF by e-mail.		Complied. Environmental statement for the period of April 2022 to March 2023 was submitted to MoEF&CC & CECB vide PIL/EHS/ENV-STATEMENT/2023/717 dtd. 20.05.2023. (For Sponge Iron Plant, Captive Power Plant, Steel Manufacturing, Ferro Alloys, Sinter Plant & Oxygen Plant)
xvii	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 CECB and may also be seen at the website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This should advertised within seven days from the date of issue of the clearance letter at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular		Complied.



## Prakash Industries Limited, Champa

		language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhopal.	
10		The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Project proponent has consented to the conditions.
11		The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Project proponent has consented to the conditions.
12		The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Project proponent has consented to the conditions.







**Ultimate**  
ENVIRONMENTAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		REPORT NO	UES/TR/23-24/04771	
<b>To,</b>		LAB REF NO	UES/23-24/ST/08891	
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF SAMPLING	03/08/2023	
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF RECEIPT	04/08/2023	
<b>CHAMPA CHHATTISGARH</b>		DATE OF REPORT	08/08/2023	
		DATE OF ANALYSIS	START: 04/08/2023	END: 08/08/2023
SAMPLE DETAILS				
MONITORING FOR	STACK EMISSION MONITORING			
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.			
SAMPLING LOCATION	ESP OF KILN-1			
SAMPLE COLLECTED BY	LABORATORY CHEMIST			
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009, PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10):2003			
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO <sub>2</sub> : 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE.			

## TEST REPORT

### Stack details

STACK IDENTITY	ESP OF KILN-1			
STACK ATTACHED TO	ESP			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	55.0			
STACK DIAMETER (MTR.)	2.20			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	175.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	17.59	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	66.84	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	32.37	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	256.0	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	144.0	300	IS 11255 (Part 7):2005, RA 2012

REMARKS: Results Are As Above

#### Terms & conditions

- The report for publication, arbitration or as the legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with the customer.
- This is for information as the party has asked for above test(s) only

	For ULTIMATE ENVIROLYTICAL SOLUTIONS
REVIEWED BY	AUTHORIZED SIGNATORY

-----End of the test report-----





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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04772
	LAB REF NO	UES/23-24/ST/08892
	DATE OF SAMPLING	05/08/2023
	DATE OF RECEIPT	07/08/2023
	DATE OF REPORT	11/08/2023
	DATE OF ANALYSIS	START:07/08/2023   END:11/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	ESP OF KILN-2
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2,1985 REAFFIRMED 2009, PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE.

**TEST REPORT**

<b>Stack details</b>					
STACK IDENTITY	ESP OF KILN-2				
STACK ATTACHED TO	ESP				
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	55.0				
STACK DIAMETER (MTR.)	2.20				
STACK SHAPE AT TOP	CIRCULAR				
TYPE OF FUEL	COAL				
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>Limit</b>	<b>Method Reference</b>	
FLUE GAS TEMPERATURE	°C	176.0	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	17.31	-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	M <sup>3</sup> /s	65.77	-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	34.61	50	IS 11255 (Part 1):1985, RA 2003	
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	240.4	600	IS 11255 (Part 2):1985, RA 2003	
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	158.2	300	IS 11255 (Part 7):2005, RA 2012	

REMARKS: Results Are As Above

**Terms & conditions**

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REVIEWED BY	For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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-----End of the test report-----





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Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer: <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04773
	LAB REF NO	UES/23-24/ST/08893
	DATE OF SAMPLING	07/08/2023
	DATE OF RECEIPT	08/08/2023
	DATE OF REPORT	12/08/2023
	DATE OF ANALYSIS	START: 08/08/2023    END: 12/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	ESP OF KILN-3
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1, 2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE.

## TEST REPORT

Stack details				
STACK IDENTITY	ESP OF KILN-3			
STACK ATTACHED TO	ESP			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	65.0			
STACK DIAMETER (MTR.)	2.70			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	152.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	10.89	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	62.29	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	31.46	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	260.8	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	152.0	300	IS 11255 (Part 7):2005, RA 2012

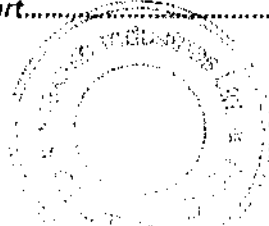
REMARKS: Results Are As Above

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-----End of the test report-----





**Ultimate**  
ENVIROLYTICAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer:		REPORT NO	UES/TR/23-24/04774
To,		LAB REF NO	UES/23-24/ST/08894
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF SAMPLING	08/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF RECEIPT	09/08/2023
<b>CHAMPA CHHATTISGARH</b>		DATE OF REPORT	14/08/2023
		DATE OF ANALYSIS	START: 09/08/2023    END: 14/08/2023
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING		
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.		
SAMPLING LOCATION	ESP OF KILN-4		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10):2003		
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO <sub>2</sub> : 30 ML X 1 NO. PVC BOTTLE, NO <sub>X</sub> : 25 ML X 1 NO. PVC BOTTLE.		

## TEST REPORT

### Stack details

STACK IDENTITY	ESP OF KILN-4			
STACK ATTACHED TO	ESP			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	65.0			
STACK DIAMETER (MTR.)	3.37			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	150.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	6.14	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	54.76	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	36.46	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	232.2	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	144.0	300	IS 11255 (Part 7):2005, RA 2012

REMARKS: Results Are As Above

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk  
 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer		REPORT NO	UES/TR/23-24/04775
<b>To,</b>		LAB REF NO	UES/23-24/ST/08895
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF SAMPLING	08/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF RECEIPT	09/08/2023
<b>CHAMPA CHHATTISGARH</b>		DATE OF REPORT	14/08/2023
		DATE OF ANALYSIS	START: 09/08/2023 END: 14/08/2023
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING		
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.		
SAMPLING LOCATION	ESP OF KILN-5		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003		
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE.		

TEST REPORT					
Stack details					
STACK IDENTITY	ESP OF KILN-5				
STACK ATTACHED TO	ESP				
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	65.0				
STACK DIAMETER (MTR.)	2.26				
STACK SHAPE AT TOP	CIRCULAR				
TYPE OF FUEL	COAL				
Parameter	Unit	Result	Limit	Method Reference	
FLUE GAS TEMPERATURE	°C	142.0	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	14.01	-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	M <sup>3</sup> /s	56.18	-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	38.73	50	IS 11255 (Part 1):1985, RA 2003	
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	264.5	600	IS 11255 (Part 2):1985, RA 2003	
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	162.8	300	IS 11255 (Part 7):2005, RA 2012	

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REVIEWED BY	For ULTIMATE ENVIROLYTICAL SOLUTIONS <i>Subhasree</i> AUTHORIZED SIGNATORY
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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk  
 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer:  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04776
	LAB REF NO	UES/23-24/ST/08896
	DATE OF SAMPLING	09/08/2023
	DATE OF RECEIPT	10/08/2023
	DATE OF REPORT	14/08/2023
	DATE OF ANALYSIS	START: 10/08/2023   END: 14/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	ESP OF KILN-6
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1, 2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE.

## TEST REPORT

Stack details	
STACK IDENTITY	ESP OF KILN-6
STACK ATTACHED TO	ESP
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	65.0
STACK DIAMETER (MTR.)	3.40
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	COAL

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	140.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	5.37	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	48.75	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	30.69	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	226.5	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	132.9	300	IS 11255 (Part 7):2005, RA 2012

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-----End of the test report.-----





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 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04777
	LAB REF NO	UES/23-24/ST/08897
	DATE OF SAMPLING	
	DATE OF RECEIPT	
	DATE OF REPORT	
	DATE OF ANALYSIS	

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	ESP OF FBB-1
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009, PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.

**TEST REPORT**

<b>Stack details</b>					
STACK IDENTITY	ESP OF FBB-1				
STACK ATTACHED TO	ESP				
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	65.0				
STACK DIAMETER (MTR.)	2.90				
STACK SHAPE AT TOP	CIRCULAR				
TYPE OF FUEL	COAL				
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>Limit</b>	<b>Method Reference</b>	
FLUE GAS TEMPERATURE	°C		-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s		-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	M <sup>3</sup> /s		-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	PLANT NO1 OPERATE	50	IS 11255 (Part 1):1985, RA 2003	
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>		600	IS 11255 (Part 2):1985, RA 2003	
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>		300	IS 11255 (Part 7):2005, RA 2012	
MERCURY AS Hg	mg/Nm <sup>3</sup>		0.03	USEPA Method No. 29	

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-----End of the test report-----



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 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO UES/TR/23-24/04778 LAB REF NO UES/23-24/ST/08898 DATE OF SAMPLING 09/08/2023 DATE OF RECEIPT 10/08/2023 DATE OF REPORT 14/08/2023 DATE OF ANALYSIS START: 10/08/2023 END: 14/08/2023
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**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION
SAMPLING LOCATION	ESP OF FBB-243
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009, PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5187 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE 1 X 1 NO. SO2 30 ML X 1 NO. PVC BOTTLE, NOX 25 ML X 1 NO. PVC BOTTLE, HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO PVC BOTTLE.

**TEST REPORT**

**Stack details**

STACK IDENTITY	ESP OF FBB-243
STACK ATTACHED TO	ESP
STACK HEIGHT ABOVE GROUND LEVEL (MTR)	80.0
STACK DIAMETER (MTR)	4.20
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	COAL

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	105.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	6.85	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	94.87	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	30.68	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	264.6	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	160.0	300	IS 11255 (Part 7):2005, RA 2012
MERCURY as Hg	mg/Nm <sup>3</sup>	N.D.	0.03	USEPA Method No. 29

REMARKS: Results Are As Above

**Terms & conditions**

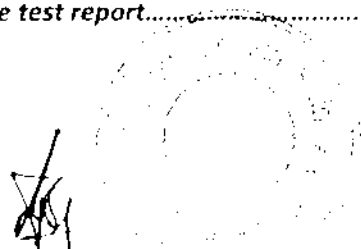
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For ULTIMATE ENVIROLYTICAL SOLUTIONS

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AUTHORIZED SIGNATORY

-----End of the test report-----





**Ultimate**  
ENVIRONMENTAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer		REPORT NO	UES/TR/23-24/04779
<b>To,</b>		LAB REF NO	UES/23-24/ST/08899
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF SAMPLING	10/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF RECEIPT	11/08/2023
<b>CHAMPA CHHATTISGARH</b>		DATE OF REPORT	16/08/2023
		DATE OF ANALYSIS	START: 11/08/2023    END: 16/08/2023
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING		
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.		
SAMPLING LOCATION	ESP OF FBB-4		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003		
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.; SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.		

TEST REPORT				
<b>Stack details</b>				
STACK IDENTITY	ESP OF FBB-4			
STACK ATTACHED TO	ESP			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	61.0			
STACK DIAMETER (MTR.)	2.10			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	130.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	16.30	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	56.39	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	33.80	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	238.2	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	147.5	300	IS 11255 (Part 7):2005, RA 2012
MERCURY AS Hg	mg/Nm <sup>3</sup>	N.D.	0.03	USEPA Method No. 29

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REVIEWED BY 	For ULTIMATE ENVIRONMENTAL SOLUTIONS  AUTHORIZED SIGNATORY
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-----End of the test report-----







HDD-272, Phase III - Near JP Chowk  
 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer:  <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04780
	LAB REF NO	UES/23-24/ST/08900
	DATE OF SAMPLING	10/08/2023
	DATE OF RECEIPT	11/08/2023
	DATE OF REPORT	16/08/2023
	DATE OF ANALYSIS	START:11/08/2023    END:16/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	ESP OF FBE-5
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2,1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.

## TEST REPORT

Stack details	
STACK IDENTITY	ESP OF FBE-5
STACK ATTACHED TO	ESP
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	61.0
STACK DIAMETER (MTR.)	2.10
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	COAL

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	127.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	15.46	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	53.49	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	35.59	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	236.2	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	142.8	300	IS 11255 (Part 7):2005, RA 2012
MERCURY AS Hg	mg/Nm <sup>3</sup>	N.D.	0.03	USEPA Method No. 29

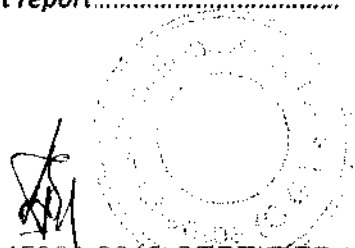
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-----End of the test report-----





HDD-272, Phase III - Near JP Chowk  
 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer  <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04781
	LAB REF NO	UES/23-24/ST/08901
	DATE OF SAMPLING	11/08/2023
	DATE OF RECEIPT	12/08/2023
	DATE OF REPORT	16/08/2023
	DATE OF ANALYSIS	START: 12/08/2023    END: 16/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	ESP OF FEB-6
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009, PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE	THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE,
QUANTITY/PACKING	HC: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.

**TEST REPORT**

<b>Stack details</b>	
STACK IDENTITY	ESP OF FEB-6
STACK ATTACHED TO	ESP
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	61.0
STACK DIAMETER (MTR.)	2.10
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	COAL

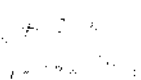
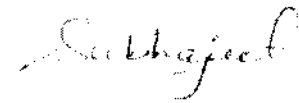
  

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	135.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	18.40	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	63.66	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	38.61	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	262.0	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	156.3	300	IS 11255 (Part 7):2005, RA 2012
MERCURY AS Hg	mg/Nm <sup>3</sup>	N.D.	0.03	USEPA Method No. 29

REMARKS: Results Are As Above

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-----End of the test report-----





HDD-272, Phase III - Near JP Chowk  
 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04782
	LAB REF NO	UES/23-24/ST/08902
	DATE OF SAMPLING	11/08/2023
	DATE OF RECEIPT	12/08/2023
	DATE OF REPORT	16/08/2023
	DATE OF ANALYSIS	START:12/08/2023 END:16/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION
SAMPLING LOCATION	ESP OF FEB-7
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	TRIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.

**TEST REPORT**

<b>Stack details</b>					
STACK IDENTITY	ESP OF FEB-7				
STACK ATTACHED TO	ESP				
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	61.0				
STACK DIAMETER (MTR.)	2.10				
STACK SHAPE AT TOP	CIRCULAR				
TYPE OF FUEL	COAL				
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>Limit</b>	<b>Method Reference</b>	
FLUE GAS TEMPERATURE	°C	128.0	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	15.78	-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	M <sup>3</sup> /s	54.59	-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	30.45	50	IS 11255 (Part 1):1985, RA 2003	
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	238.2	600	IS 11255 (Part 2):1985, RA 2003	
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	149.0	300	IS 11255 (Part 7):2005, RA 2012	
MERCURY AS Hg	mg/Nm <sup>3</sup>	N.D.	0.03	USEPA Method No. 29	

REMARKS: Results Are As Above

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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk  
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 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04783
	LAB REF NO	UES/23-24/ST/08903
	DATE OF SAMPLING	12/08/2023
	DATE OF RECEIPT	14/08/2023
	DATE OF REPORT	18/08/2023
	DATE OF ANALYSIS	START:14/08/2023 ; END:18/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION
SAMPLING LOCATION	DE-DUSTING (BAG HOUSE KILN-1&2)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

**TEST REPORT**

**Stack details**

STACK IDENTITY	DE-DUSTING (BAG HOUSE KILN-1&2)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	35.0
STACK DIAMETER (MTR.)	2.65
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	SPONGE IRON CIRCUIT

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	36.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	8.48	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	46.64	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	37.41	50	IS 11255 (Part 1):1985, RA 2003

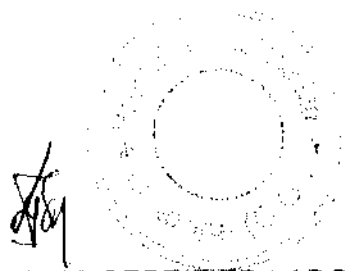
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-----End of the test report-----





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Name & Address Of The Customer  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04784	
	LAB REF NO	UES/23-24/ST/06904	
	DATE OF SAMPLING	12/08/2023	
	DATE OF RECEIPT	14/08/2023	
	DATE OF REPORT	18/08/2023	
	DATE OF ANALYSIS	START: 14/08/2023	END: 18/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-1 (KILN-1 & KILN-2 ) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009, PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

**TEST REPORT**

**Stack details**

STACK IDENTITY	DE-1 (KILN-1 & KILN-2 ) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0
STACK DIAMETER (MTR.)	1.0
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	COAL CIRCUIT

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	33.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	12.32	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	9.60	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	20.51	50	IS 11255 (Part 1):1985, RA 2003

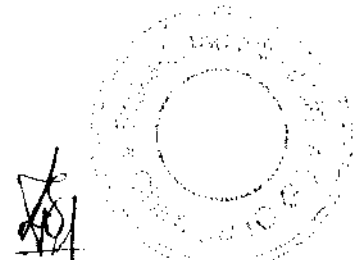
REMARKS: Results Are As Above

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-----End of the test report-----





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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04785
	LAB REF NO	UES/23-24/ST/08905
	DATE OF SAMPLING	14/08/2023
	DATE OF RECEIPT	16/08/2023
	DATE OF REPORT	21/08/2023
	DATE OF ANALYSIS	START: 16/08/2023    END: 21/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-2 (KILN-1 & KILN-2 ) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008; PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

**TEST REPORT**

**Stack details**

STACK IDENTITY	DE-2 (KILN-1 & KILN-2 ) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	35.0
STACK DIAMETER (MTR.)	1.05
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	IRON ORE CIRCUIT

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	37.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	10.23	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	8.79	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	26.43	50	IS 11255 (Part 1):1985, RA 2003

REMARKS: Results Are As Above

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	LAB REF NO	UES/23-24/ST/08906
	DATE OF SAMPLING	14/08/2023
	DATE OF RECEIPT	16/08/2023
	DATE OF REPORT	21/08/2023
	DATE OF ANALYSIS	START: 16/08/2023 . . . . . END: 21/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-3 (KILN-1 & KILN 2 ) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2 1985 REAFFIRMED 2009, PART 3,2008, PART 7 2005 REAFFIRMED 2012, IS 5182 (PART 10) 2003
SAMPLE QUANTITY/PACKING	THIMBLE, 1 X 1 NO.

### TEST REPORT

<b>Stack details</b>	
STACK IDENTITY	DE-3 (KILN-1 & KILN-2 ) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	15.0
STACK DIAMETER (MTR.)	3.70
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	SPONGE IRON CIRCUIT

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	37.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	13.61	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	5.17	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	29.65	50	IS 11255 (Part 1):1985, RA 2003

REMARKS: Results Are As Above

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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04787
	LAB REF NO	UES/23-24/ST/08907
	DATE OF SAMPLING	16/08/2023
	DATE OF RECEIPT	17/08/2023
	DATE OF REPORT	21/08/2023
	DATE OF ANALYSIS	START:17/08/2023    END:21/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-4 (KILN-3) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

### TEST REPORT

Stack details	
STACK IDENTITY	DE-4 (KILN-3) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0
STACK DIAMETER (MTR.)	0.50
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	RAW MATERIAL CURCUIT OF KILN

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	38.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	9.51	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	1.80	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	21.75	50	IS 11255 (Part 1):1985, RA 2003

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-----End of the test report-----







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	LAB REF NO	UES/23-24/ST/08908
	DATE OF SAMPLING	16/08/2023
	DATE OF RECEIPT	17/08/2023
	DATE OF REPORT	21/08/2023
	DATE OF ANALYSIS	START:17/08/2023    END:21/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-5 (KILN-3) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

### TEST REPORT

Stack details	
STACK IDENTITY	DE-5 (KILN-3) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	45.0
STACK DIAMETER (MTR.)	1.50
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	COAL CIRCUIT

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	38.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	13.18	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	23.19	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	24.76	50	IS 11255 (Part 1):1985, RA 2003

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-----End of the test report-----





HDD-272, Phase III - Near JP Chowk  
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	LAB REF NO	UES/23-24/ST/08909
	DATE OF SAMPLING	17/08/2023
	DATE OF RECEIPT	18/08/2023
	DATE OF REPORT	22/08/2023
	DATE OF ANALYSIS	START: 18/08/2023    END: 22/08/2023

SAMPLE DETAILS	
MONITORING PUR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-DUSTING (BAG HOUSE KILN-3)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008. PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

## TEST REPORT

Stack details	
STACK IDENTITY	DE-DUSTING (BAG HOUSE KILN-3)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	45.0
STACK DIAMETER (MTR.)	2.10
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	SPONGE IRON CIRCUIT

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	37.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	15.51	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	53.66	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	36.52	50	IS 11255 (Part 1):1985, RA 2003

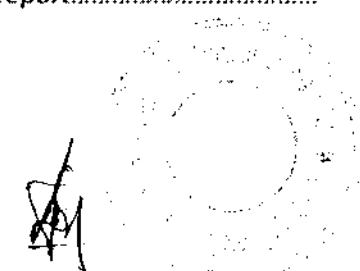
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	LAB REF NO	UES/23-24/ST/08910
	DATE OF SAMPLING	17/08/2023
	DATE OF RECEIPT	18/08/2023
	DATE OF REPORT	22/08/2023
	DATE OF ANALYSIS	START: 18/08/2023 END: 22/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-1 (KILN-4 & KILN-5) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

**TEST REPORT**

**Stack details**

STACK IDENTITY	DE-1 (KILN-4 & KILN-5) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0
STACK DIAMETER (MTR.)	1.40
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	COAL CIRCUIT

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	33.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	8.58	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	13.21	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	23.52	50	IS 11255 (Part 1):1985, RA 2003

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-----End of the test report-----





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Name & Address Of The Customer  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04791
	LAB REF NO	UES/23-24/ST/08911
	DATE OF SAMPLING	18/08/2023
	DATE OF RECEIPT	19/08/2023
	DATE OF REPORT	23/08/2023
	DATE OF ANALYSIS	START: 19/08/2023   END: 23/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-2 (KILN-4 & KILN-5) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009, PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

**TEST REPORT**

**Stack details**

STACK IDENTITY	DE-2 (KILN-4 & KILN-5) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0
STACK DIAMETER (MTR.)	0.74
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	COAL CIRCUIT

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	34.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	15.51	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	6.66	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	20.92	50	IS 11255 (Part 1):1985, RA 2003

REMARKS: Results Are As Above

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-----End of the test report-----





**Ultimate**  
ENVIROLYTICAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer:		REPORT NO	UES/TR/23-24/04792
<b>To,</b>		LAB REF NO	UES/23-24/ST/08912
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF SAMPLING	18/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF RECEIPT	19/08/2023
<b>CHAMPA CHHATTISGARH</b>		DATE OF REPORT	23/08/2023
		DATE OF ANALYSIS	START: 19/08/2023 ; END: 23/08/2023
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING		
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.		
SAMPLING LOCATION	DE-3 (KILN-4 & KILN-5) (BAG FILTER)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003		
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.		

TEST REPORT					
<b>Stack details</b>					
STACK IDENTITY	DE-3 (KILN-4 & KILN-5) (BAG FILTER)				
STACK ATTACHED TO	BAG FILTER				
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0				
STACK DIAMETER (MTR.)	0.93				
STACK SHAPE AT TOP	CIRCULAR				
TYPE OF FUEL	IRON ORE CIRCUIT				
Parameter	Unit	Result	Limit	Method Reference	
FLUE GAS TEMPERATURE	°C	36.0	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	16.05	-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	M <sup>3</sup> /s	10.75	-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	25.61	50	IS 11255 (Part 1):1985, RA 2003	

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 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b>  <b>CHAMPA - 495671, DISTT.- JANJGIR</b>  <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04793
	LAB REF NO	UES/23-24/ST/08913
	DATE OF SAMPLING	19/08/2023
	DATE OF RECEIPT	21/08/2023
	DATE OF REPORT	25/08/2023
	DATE OF ANALYSIS	START:21/08/2023 END:25/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION
SAMPLING LOCATION	DE-4 (KILN-4 & KILN-5) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

**TEST REPORT**

**Stack details**

STACK IDENTITY	DE-4 (KILN-4 & KILN-5) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0
STACK DIAMETER (MTR.)	2.00
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	RAW MATERIAL CIRCUIT OF KILN

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	35.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	5.88	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	18.46	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	27.42	50	IS 11255 (Part 1):1985, RA 2003

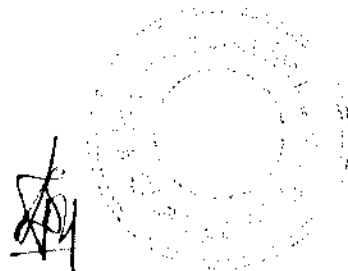
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Name & Address Of The Customer:  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04794
	LAB REF NO	UES/23-24/ST/08914
	DATE OF SAMPLING	19/08/2023
	DATE OF RECEIPT	21/08/2023
	DATE OF REPORT	25/08/2023
	DATE OF ANALYSIS	START : 21/08/2023 ; END: 25/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-5 (KILN-4 & KILN-5) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

**TEST REPORT**

**Stack details**

STACK IDENTITY	DE-5 (KILN-4 & KILN-5) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0
STACK DIAMETER (MTR.)	0.50
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	RAW MATERIAL CIRCUIT OF KILN

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	36.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	8.76	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	1.66	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TEM)	mg/Nm <sup>3</sup>	29.66	50	IS 11255 (Part 1):1985, RA 2003

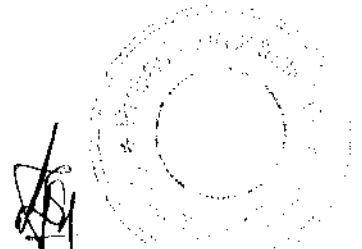
REMARKS: Results Are As Above

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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04795
	LAB REF NO	UES/23-24/ST/08915
	DATE OF SAMPLING	21/08/2023
	DATE OF RECEIPT	22/08/2023
	DATE OF REPORT	26/08/2023
	DATE OF ANALYSIS	START:22/08/2023   END:26/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-6 (KILN-4 & KILN-5) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009, PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

## TEST REPORT

<b>Stack details</b>	
STACK IDENTITY	DE-6 (KILN-4 & KILN-5) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0
STACK DIAMETER (MTR.)	0.89
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	IRON ORE CIRCUIT

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	35.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	14.21	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	8.82	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	22.63	50	IS 11255 (Part 1):1985, RA 2003

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Name & Address of The Customer: <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04796
	LAB REF NO	UES/23-24/ST/08916
	DATE OF SAMPLING	21/08/2023
	DATE OF RECEIPT	22/08/2023
	DATE OF REPORT	26/08/2023
	DATE OF ANALYSIS	START: 22/08/2023 END: 26/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-7 (KILN-4 & KILN-5) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

## TEST REPORT

Stack details				
STACK IDENTITY	DE-7 (KILN-4 & KILN-5) (BAG FILTER)			
STACK ATTACHED TO	BAG FILTER			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0			
STACK DIAMETER (MTR.)	0.52			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	SPONGE IRON CIRCUIT			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	37.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	9.11	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	1.91	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	28.63	50	IS 11255 (Part 1):1985, RA 2003

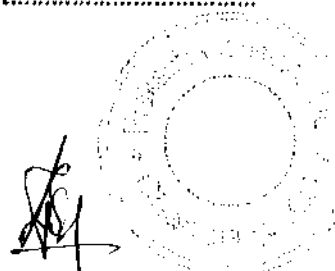
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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04797
	LAB REF NO	UES/23-24/ST/08917
	DATE OF SAMPLING	22/08/2023
	DATE OF RECEIPT	23/08/2023
	DATE OF REPORT	28/08/2023
	DATE OF ANALYSIS	START:23/08/2023    END:28/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION
SAMPLING LOCATION	DE-8 (KILN-4 & KILN-5) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009, PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

TEST REPORT					
<b>Stack details</b>					
STACK IDENTITY	DE-8 (KILN-4 & KILN-5) (BAG FILTER)				
STACK ATTACHED TO	BAG FILTER				
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0				
STACK DIAMETER (MTR.)	1.40				
STACK SHAPE AT TOP	CIRCULAR				
TYPE OF FUEL	SPONGE IRON CIRCUIT				
Parameter	Unit	Result	Limit	Method Reference	
FLUE GAS TEMPERATURE	°C	38.0	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	13.27	-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	M <sup>3</sup> /s	20.43	-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	37.86	50	IS 11255 (Part 1):1985, RA 2003	

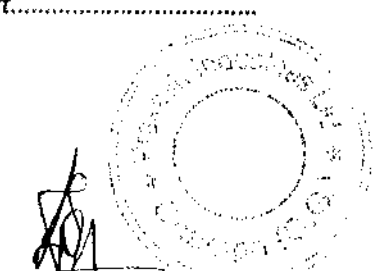
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Name & Address Of The Customer: <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04798
	LAB REF NO	UES/23-24/ST/08918
	DATE OF SAMPLING	22/08/2023
	DATE OF RECEIPT	23/08/2023
	DATE OF REPORT	28/08/2023
	DATE OF ANALYSIS	START:23/08/2023 END:28/08/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-9 (KILN-4 & KILN-5) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008. PART 7:2005 REAFFIRMED 2012. IS 5182 (PART 10) .2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

**TEST REPORT**

**Stack details**

STACK IDENTITY	DE-9 (KILN-4 & KILN-5) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0
STACK DIAMETER (MTR.)	0.69
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	IRON ORE CIRCUIT

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	36.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	8.55	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	3.16	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	29.54	50	IS 11255 (Part 1):1985, RA 2003

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-----End of the test report-----





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Name & Address Of The Customer: <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04799
	LAB REF NO	UES/23-24/ST/08919
	DATE OF SAMPLING	23/08/2023
	DATE OF RECEIPT	24/08/2023
	DATE OF REPORT	28/08/2023
	DATE OF ANALYSIS	START:24/08/2023 END:28/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-1 (KILN-6) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1, 2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

### TEST REPORT

Stack details				
STACK IDENTITY	DE-1 (KILN-6) (BAG FILTER)			
STACK ATTACHED TO	BAG FILTER			
STACK HEIGHT ABOVE GROUND LEVEL (MTR )	35.0			
STACK DIAMETER (MTR )	0.70			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL CIRCUIT			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	35.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	8.74	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	3.32	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	20.79	50	IS 11255 (Part 1):1985, RA 2003

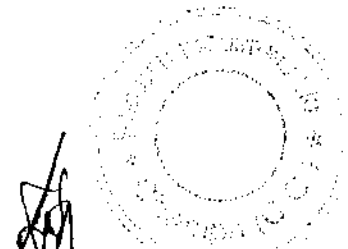
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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04800
	LAB REF NO	UES/23-24/ST/08920
	DATE OF SAMPLING	23/08/2023
	DATE OF RECEIPT	24/08/2023
	DATE OF REPORT	28/08/2023
	DATE OF ANALYSIS	START: 24/08/2023    END: 28/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION
SAMPLING LOCATION	DE-2 (KILN-6) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

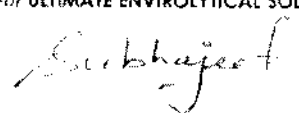
## TEST REPORT

Stack details	
STACK IDENTITY	DE-2 (KILN-6) (BAG FILTER)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	35.0
STACK DIAMETER (MTR.)	0.83
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	RAW MATERIAL CIRCUIT OF KILN

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	36.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	12.72	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	6.86	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	26.51	50	IS 11255 (Part 1):1985, RA 2003

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Name & Address Of The Customer  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04801
	LAB REF NO	UES/23-24/ST/08921
	DATE OF SAMPLING	24/08/2023
	DATE OF RECEIPT	25/08/2023
	DATE OF REPORT	29/08/2023
	DATE OF ANALYSIS	START: 25/08/2023    END: 29/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION
SAMPLING LOCATION	DE-3 (KILN-6) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

### TEST REPORT

Stack details				
STACK IDENTITY	DE-3 (KILN-6) (BAG FILTER)			
STACK ATTACHED TO	BAG FILTER			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	35.0			
STACK DIAMETER (MTR.)	1.24			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	RAW MATERIAL CIRCUIT OF KILN			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	36.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	8.48	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	10.26	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	23.41	50	IS 11255 (Part 1):1985, RA 2003

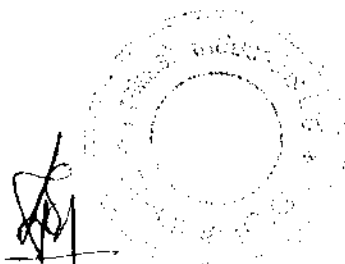
REMARKS: Results Are As Above

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**Ultimate**  
ENVIROLYTICAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer:  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA – 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04802
	LAB REF NO	UES/23-24/ST/08922
	DATE OF SAMPLING	24/08/2023
	DATE OF RECEIPT	25/08/2023
	DATE OF REPORT	29/08/2023
	DATE OF ANALYSIS	START: 25/08/2023   END: 29/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	DE-4 (KILN-6) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1, 2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE	
QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

TEST REPORT					
<b>Stack details</b>					
STACK IDENTITY	DE-4 (KILN-6) (BAG FILTER)				
STACK ATTACHED TO	BAG FILTER				
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	30.0				
STACK DIAMETER (MTR.)	1.20				
STACK SHAPE AT TOP	CIRCULAR				
TYPE OF FUEL	SPONGE IRON CIRCUIT				
Parameter	Unit	Result	Limit	Method Reference	
FLUE GAS TEMPERATURE	°C	37.0	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	13.20	-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	M <sup>3</sup> /s	14.91	-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	32.48	50	IS 11255 (Part 1):1985, RA 2003	

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Name & Address Of The Customer:  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04803	
	LAB REF NO	UES/23-24/ST/08923	
	DATE OF SAMPLING	25/09/2023	
	DATE OF RECEIPT	26/08/2023	
	DATE OF REPORT	30/08/2023	
	DATE OF ANALYSIS	START: 26/08/2023	END: 30/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	NEW CHP (FBB-263) (BAG FILTER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

TEST REPORT				
<b>Stack details</b>				
STACK IDENTITY	NEW CHP (FBB-263) (BAG FILTER)			
STACK ATTACHED TO	BAG FILTER			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	35.0			
STACK DIAMETER (MTR.)	1.19			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL CIRCUIT			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	37.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	5.14	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	5.70	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	19.70	50	IS 11255 (Part 1):1985, RA 2003

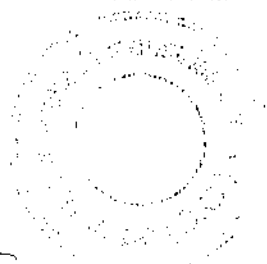
REMARKS: Results Are As Above

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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04804
	LAB REF NO	UES/23-24/ST/08924
	DATE OF SAMPLING	25/08/2023
	DATE OF RECEIPT	26/08/2023
	DATE OF REPORT	30/08/2023
	DATE OF ANALYSIS	START: 26/08/2023    END: 30/08/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	SAF-1&2 (BAG HOUSE)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) 2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

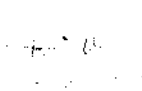
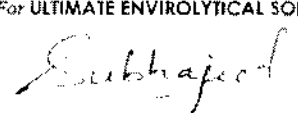
## TEST REPORT

Stack details				
STACK IDENTITY	SAF-1&2 (BAG HOUSE)			
STACK ATTACHED TO	BAG FILTER			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	40.0			
STACK DIAMETER (MTR.)	2.40			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL & COKE			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	94.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	7.73	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	34.93	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	31.38	50	IS 11255 (Part 1):1985, RA 2003

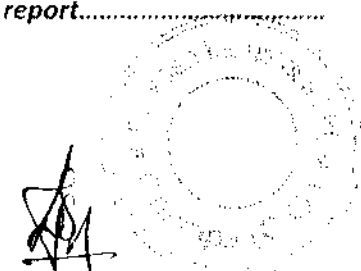
REMARKS: Results Are As Above

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<b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04805
	LAB REF NO	UES/23-24/ST/09925
	DATE OF SAMPLING	26/08/2023
	DATE OF RECEIPT	28/08/2023
	DATE OF REPORT	01/09/2023
	DATE OF ANALYSIS	START:28/08/2023 END:01/09/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF NO	BY MAIL CONFIRMATION.
SAMPLING LOCATION	SAF 364 (BAG HOUSE)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2 1985 REAFFIRMED 2009 PART 3 2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE 1 X 1 NO

TEST REPORT					
<b>Stack details</b>					
STACK IDENTITY	SAF-364 (BAG HOUSE)				
STACK ATTACHED TO	BAG FILTER				
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	40.0				
STACK DIAMETER (MTR)	2.40				
STACK SHAPE AT TOP	CIRCULAR				
TYPE OF FUEL	COAL & LUMP				
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>Limit</b>	<b>Method Reference</b>	
FLUE GAS TEMPERATURE	°C	92.0	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	8.07	-	IS 11255 (Part 3).2008	
TOTAL GAS QUANTITY	M <sup>3</sup> /s	36.47	-	IS 11255 (Part 3).2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	35.40	50	IS 11255 (Part 1) 1985, RA 2003	

REMARKS Results Are As Above

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Name & Address Of The Customer:  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04806	
	LAB REF NO	UES/23-24/ST/08926	
	DATE OF SAMPLING	26/09/2023	
	DATE OF RECEIPT	28/08/2023	
	DATE OF REPORT	01/09/2023	
	DATE OF ANALYSIS	START: 28/08/2023	END: 01/09/2023

**SAMPLE DETAILS**

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	SAF-546 (BAG HOUSE)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

**TEST REPORT**

<b>Stack details</b>				
STACK IDENTITY	SAF-546 (BAG HOUSE)			
STACK ATTACHED TO	BAG FILTER			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	40.0			
STACK DIAMETER (MTR.)	2.75			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL & COKE			
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>Limit</b>	<b>Method Reference</b>
FLUE GAS TEMPERATURE	°C	66.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	6.28	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	37.30	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	38.11	50	IS 11255 (Part 1):1985, RA 2003

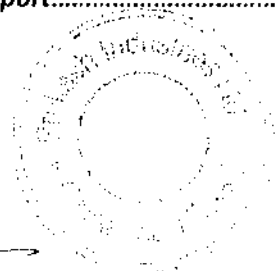
REMARKS: Results Are As Above

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-----End of the test report-----





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Name & Address Of The Customer:  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04807
	LAB REF NO	UES/23-24/ST/08927
	DATE OF SAMPLING	27/08/2023
	DATE OF RECEIPT	28/08/2023
	DATE OF REPORT	01/09/2023
	DATE OF ANALYSIS	START:28/08/2023 END:01/09/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	SAF-7 (BAG HOUSE)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

## TEST REPORT

<b>Stack details</b>	
STACK IDENTITY	SAF-7 (BAG HOUSE)
STACK ATTACHED TO	BAG FILTER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	40.0
STACK DIAMETER (MTR.)	1.50
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	COAL & COKE

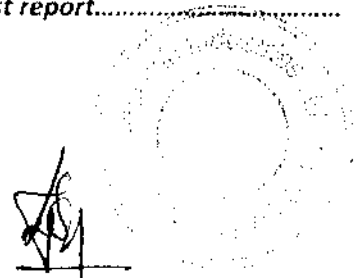
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	70.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	15.04	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	26.62	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	33.43	50	IS 11255 (Part 1):1985, RA 2003

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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04808
	LAB REF NO	UES/23-24/ST/08928
	DATE OF SAMPLING	27/08/2023
	DATE OF RECEIPT	28/08/2023
	DATE OF REPORT	01/09/2023
	DATE OF ANALYSIS	START:28/08/2023 ; END:01/09/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	SAF-8&9 (BAG HOUSE)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	TRIMBLE: 1 X 1 NO.

## TEST REPORT

Stack details				
STACK IDENTITY	SAF-8&9 (BAG HOUSE)			
STACK ATTACHED TO	BAG FILTER			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	40.0			
STACK DIAMETER (MTR.)	2.10			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL & COKE			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	118.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	16.57	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	57.33	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	39.68	50	IS 11255 (Part 1):1985, RA 2003

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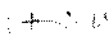
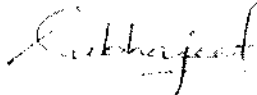
<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/23-24/04809
<b>To,</b>		LAB REF NO	UES/23-24/ST/08929
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF SAMPLING	
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF RECEIPT	
<b>CHAMPA CHHATTISGARH</b>		DATE OF REPORT	
		DATE OF ANALYSIS	
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING		
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.		
SAMPLING LOCATION	SINTER PLANT (VENTURE SCRUBBER)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003		
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.		

TEST REPORT				
<b>Stack details</b>				
STACK IDENTITY	SINTER PLANT (VENTURE SCRUBBER)			
STACK ATTACHED TO	VENTURE SCRUBBER			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	40.0			
STACK DIAMETER (MTR.)	2.00			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	IRON ORE & COKE FINES			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C		-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	PLANT NOT OPERATE	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s		-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>		50	IS 11255 (Part 1):1985, RA 2003

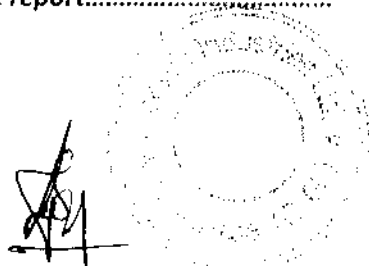
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Name & Address Of The Customer  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04810
	LAB REF NO	UES/23-24/ST/08930
	DATE OF SAMPLING	28/08/2023
	DATE OF RECEIPT	29/08/2023
	DATE OF REPORT	02/09/2023
	DATE OF ANALYSIS	START: 29/08/2023    END: 02/09/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	IFD - SHED NO.1 (VENTURE SCRUBBER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1, 2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

## TEST REPORT

Stack details	
STACK IDENTITY	IFD - SHED NO.1 (VENTURE SCRUBBER)
STACK ATTACHED TO	VENTURE SCRUBBER
STACK HEIGHT ABOVE GROUND LEVEL (MTR)	35.0
STACK DIAMETER (MTR.)	1.50
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	CPC & COKE

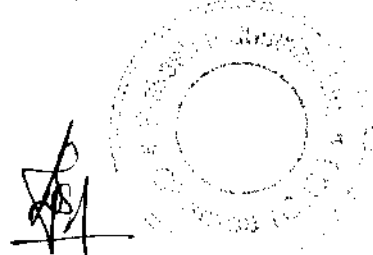
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	32.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	5.10	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	9.02	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	22.70	50	IS 11255 (Part 1):1985, RA 2003

REMARKS: Results Are As Above

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-----End of the test report-----





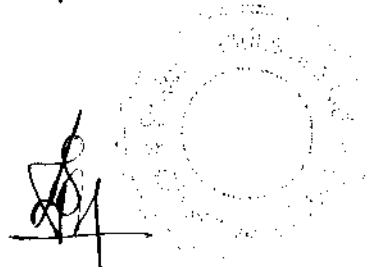
HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer:		REPORT NO	UES/TR/23-24/04811
<b>To,</b>		LAB REF NO	UES/23-24/ST/08931
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF SAMPLING	28/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF RECEIPT	29/08/2023
<b>CHAMPA CHHATTISGARH</b>		DATE OF REPORT	02/09/2023
		DATE OF ANALYSIS	START:29/08/2023    END:02/09/2023
<b>SAMPLE DETAILS</b>			
MONITORING FOR	STACK EMISSION MONITORING		
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.		
SAMPLING LOCATION	IFD - SHED NO.2 (VENTURE SCRUBBER)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003		
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.		

<b>TEST REPORT</b>					
<b>Stack details</b>					
STACK IDENTITY	IFD - SHED NO.2 (VENTURE SCRUBBER)				
STACK ATTACHED TO	VENTURE SCRUBBER				
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	35.0				
STACK DIAMETER (MTR.)	1.25				
STACK SHAPE AT TOP	CIRCULAR				
TYPE OF FUEL	CPC & COKE				
Parameter	Unit	Result	Limit	Method Reference	
FLUE GAS TEMPERATURE	°C	33.0	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	5.44	-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	M <sup>3</sup> /s	6.69	-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	26.49	50	IS 11255 (Part 1):1985, RA 2003	
<b>REMARKS: Results Are As Above</b>					
<b>Terms &amp; conditions</b>					
<ul style="list-style-type: none"> <li>➤ The report for publication, arbitration or as the legal dispute is forbidden.</li> <li>➤ Test sample will be retained for 15 days after issue of test report unless otherwise agreed with the customer.</li> <li>➤ This is for information as the party has asked for above test(s) only</li> </ul>					
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-----End of the test report-----







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Name & Address Of The Customer: <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04812	
	LAB REF NO	UES/23-24/ST/08932	
	DATE OF SAMPLING	29/08/2023	
	DATE OF RECEIPT	30/08/2023	
	DATE OF REPORT	04/09/2023	
	DATE OF ANALYSIS	START: 30/08/2023	END: 04/09/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	IFD - SHED NO.3 (VENTURE SCRUBBER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

## TEST REPORT

<b>Stack details</b>	
STACK IDENTITY	IFD - SHED NO.3 (VENTURE SCRUBBER)
STACK ATTACHED TO	VENTURE SCRUBBER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	35.0
STACK DIAMETER (MTR.)	1.50
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	CPC & COKE

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	37.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	6.20	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	10.97	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	27.48	50	IS 11255 (Part 1):1985, RA 2003

REMARKS: Results Are As Above

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Name & Address Of The Customer  <b>To,</b>  <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04813
	LAB REF NO	UES/23-24/ST/08933
	DATE OF SAMPLING	29/08/2023
	DATE OF RECEIPT	30/08/2023
	DATE OF REPORT	04/09/2023
	DATE OF ANALYSIS	START: 30/08/2023    END: 04/09/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	IFD - SHED NO. 4 (VENTURE SCRUBBER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1, 2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

## TEST REPORT

Stack details	
STACK IDENTITY	IFD - SHED NO. 4 (VENTURE SCRUBBER)
STACK ATTACHED TO	VENTURE SCRUBBER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	35.0
STACK DIAMETER (MTR.)	1.25
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	CFC & COKE

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	36.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	5.47	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	6.72	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	29.57	50	IS 11255 (Part 1):1985, RA 2003

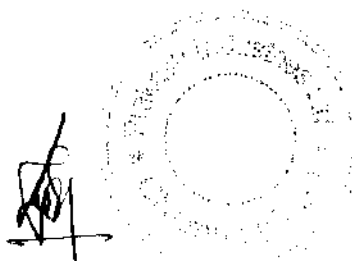
REMARKS: Results Are As Above

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Name & Address Of The Customer: <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04814
	LAB REF NO	UES/23-24/ST/08934
	DATE OF SAMPLING	30/08/2023
	DATE OF RECEIPT	31/08/2023
	DATE OF REPORT	04/09/2023
	DATE OF ANALYSIS	START: 31/08/2023    END: 04/09/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	IFD - SHED NO. 5 (VENTURE SCRUBBER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

### TEST REPORT

Stack details	
STACK IDENTITY	IFD - SHED NO. 5 (VENTURE SCRUBBER)
STACK ATTACHED TO	VENTURE SCRUBBER
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	35.0
STACK DIAMETER (MTR.)	1.25
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	CPC & COKE

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	37.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	4.90	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	6.02	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	24.34	50	IS 11255 (Part 1):1985, RA 2003

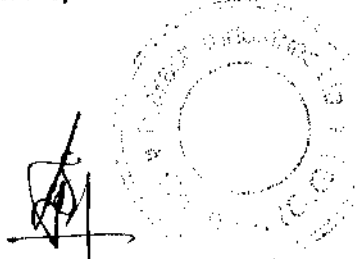
REMARKS: Results Are As Above

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Name & Address Of The Customer: <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO	UES/TR/23-24/04815
	LAB REF NO	UES/23-24/ST/08935
	DATE OF SAMPLING	30/08/2023
	DATE OF RECEIPT	31/08/2023
	DATE OF REPORT	04/09/2023
	DATE OF ANALYSIS	START: 31/08/2023   END: 04/09/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO.	BY MAIL CONFIRMATION.
SAMPLING LOCATION	IFD - SHED NO. 6 (VENTURE SCRUBBER)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO.

## TEST REPORT

Stack details				
STACK IDENTITY	IFD - SHED NO. 6 (VENTURE SCRUBBER)			
STACK ATTACHED TO	VENTURE SCRUBBER			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	35.0			
STACK DIAMETER (MTR.)	1.25			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	CPC & COKE			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	38.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	5.91	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	7.26	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	30.48	50	IS 11255 (Part 1):1985, RA 2003

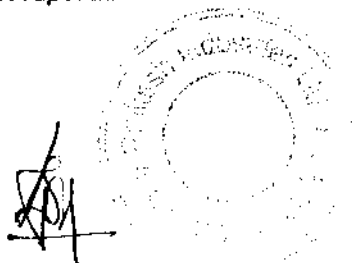
REMARKS: Results Are As Above

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-----End of the test report-----





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<i>Name &amp; Address Of The Customer</i>		<b>REPORT NO</b>	UES/TR/23-24/04816
<b>To,</b>		<b>LAB REF NO</b>	UES/23-24/ST/08936
<b>PRAKASH INDUSTRIES LIMITED</b>		<b>DATE OF SAMPLING</b>	30/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		<b>DATE OF RECEIPT</b>	31/08/2023
<b>CHAMPA CHHATTISGARH</b>		<b>DATE OF REPORT</b>	04/09/2023
		<b>DATE OF ANALYSIS</b>	START: 31/08/2023    END: 04/09/2023
<b>SAMPLE DETAILS</b>			
<b>MONITORING FOR</b>	<b>STACK EMISSION MONITORING</b>		
<b>CUSTOMER REF. NO.</b>	<b>BY MAIL CONFIRMATION.</b>		
<b>SAMPLING LOCATION</b>	<b>IFD - SHED NO. 7 (BAG FILTER)</b>		
<b>SAMPLE COLLECTED BY</b>	<b>LABORATORY CHEMIST</b>		
<b>SAMPLING PROCEDURE</b>	<b>IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3,2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003</b>		
<b>SAMPLE QUANTITY/PACKING</b>	<b>THIMBLE: 1 X 1 NO.</b>		

<b>TEST REPORT</b>				
<b>Stack details</b>				
<b>STACK IDENTITY</b>	<b>IFD - SHED NO. 7 (BAG FILTER)</b>			
<b>STACK ATTACHED TO</b>	<b>BAG FILTER</b>			
<b>STACK HEIGHT ABOVE GROUND LEVEL (MTR)</b>	30.0			
<b>STACK DIAMETER (MTR.)</b>	1.20			
<b>STACK SHAPE AT TOP</b>	<b>CIRCULAR</b>			
<b>TYPE OF FUEL</b>	<b>CPC &amp; COKE</b>			
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>Limit</b>	<b>Method Reference</b>
FLUE GAS TEMPERATURE	°C	36.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	5.01	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	M <sup>3</sup> /s	5.66	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	20.38	50	IS 11255 (Part 1):1985, RA 2003

**REMARKS: Results Are As Above**

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<p>REVIEWED BY</p>	<p style="text-align: right;">For ULTIMATE ENVIROLYTICAL SOLUTIONS</p> <p style="text-align: center;"><i>Surbhagat</i></p> <p style="text-align: right;">AUTHORIZED SIGNATORY</p>
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-----End of the test report-----

*[Signature]*





HDD-272, Phase III - Near JP Chowk  
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 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address of the Customer:  <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	Report No.	UES/TR/23-24/04764
	Lab Ref No.	UES/23-24/AAQM/08800-08803
	Date Of Sampling	01/08/2023
	Date Of Receipt	02/08/2023
	Date Of Report	07/08/2023
	Date Of Analysis	Start 02/08/2023 End 07/08/2023

**SAMPLE DETAILS**

Monitoring For	Ambient Air Quality Monitoring
	Near Guest House
	Near Labour Colony
Sampling Location	Near Nursery Area
	Near Guard Room
Customer Ref. No.	BY MAIL CONFIRMATION
Duration Of Sampling	As per CPCB norms
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (PM <sub>10</sub> ): 1X1 No., Filter Paper (PM <sub>2.5</sub> ): 1X1 No. SO <sub>2</sub> : 30mlX1 No. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle, Rubber Bladder, 1X1 No

**Test Method for Ambient Air Quality Monitoring**

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS:5182:(Part-23):2006 &CPCB Guidelines Vol-1
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS:5182:(Part-24):2019
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182:(Part-2):2001, RA 2006 &CPCB Guidelines Vol-1
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182:(Part-6):2006 & CPCB Guidelines Vol-1
Carbon Monoxide (CO)	IS:5182:(Part-10):1999, RA 2003

**TEST REPORT**

Parameter	Unit	NAAQM Standard	Results			
			Near Guest House	Near Labour Colony	Near Nursery Area	Near Guard Room
PM <sub>10</sub>	µg/m <sup>3</sup>	100	21.40	30.47	17.59	28.47
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	12.48	19.82	8.29	16.58
SO <sub>2</sub>	µg/m <sup>3</sup>	80	10.76	14.67	9.57	15.07
NO <sub>2</sub>	µg/m <sup>3</sup>	80	19.59	22.76	18.47	23.09
CO	mg/m <sup>3</sup>	4.0	0.0010	0.0017	0.0009	0.0011

**REMARKS: RESULTS ARE AS ABOVE**

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-----End of the test report-----



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<i>Name &amp; Address Of The Customer</i>		Report No.	UES/TR/23-24/04765
<b>To,</b>		Lab Ref No.	UES/23-24/AAQM/08804-08807
<b>PRAKASH INDUSTRIES LIMITED</b>		Date Of Sampling	07/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		Date Of Receipt	08/08/2023
<b>CHAMPA CHHATTISGARH</b>		Date Of Report	12/08/2023
		Date Of Analysis	Start:08/08/2023 End:12/08/2023

SAMPLE DETAILS	
Monitoring For	Ambient Air Quality Monitoring
Sampling Location	1. Near Guest House 2. Near Labour Colony 3. Near Nursery Area 4. Near Guard Room
Customer Ref. No	BY MAIL CONFIRMATION.
Duration Of Sampling	As per CPCB norms
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (PM <sub>10</sub> ): 1X1 No., Filter Paper (PM <sub>2.5</sub> ): 1X1 No. SO <sub>2</sub> : 30mlX1 No. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle, Rubber Bladder: 1X1 No.

Test Method for Ambient Air Quality Monitoring	
Parameter	Method Reference
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS:5182:(Part-23):2006 &CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS:5182:(Part-24):2019
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182:(Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I
Carbon Monoxide (CO)	IS:5182:(Part-10):1999, RA 2003

TEST REPORT						
Parameter	Unit	NAAQM Standard	Results			
			Near Guest House	Near Labour Colony	Near Nursery Area	Near Guard Room
PM <sub>10</sub>	µg/m <sup>3</sup>	100	25.34	32.50	26.33	30.50
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	16.51	21.02	15.78	19.91
SO <sub>2</sub>	µg/m <sup>3</sup>	80	13.57	17.40	10.29	11.46
NO <sub>2</sub>	µg/m <sup>3</sup>	80	24.09	26.44	18.29	20.47
CO	mg/m <sup>3</sup>	4.0	0.0008	0.0013	0.0011	0.0014

**REMARKS: RESULTS ARE AS ABOVE**

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<p>REVIEWED BY</p>	<p>For ULTIMATE ENVIROLYTICAL SOLUTIONS</p> <p><i>Subhajit</i></p> <p>AUTHORIZED SIGNATORY</p>
--------------------	--

-----End of the test report-----





HDD-272, Phase III - Near JP Chowk  
 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer  <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	Report No.	UES/TR/23-24/04766
	Lab Ref No.	UES/23-24/AAQM/08808-08811
	Date Of Sampling	14/08/2023
	Date Of Receipt	16/08/2023
	Date Of Report	21/08/2023
	Date Of Analysis	Start:16/08/2023 End:21/08/2023

**SAMPLE DETAILS**

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	1. Near Guest House 2. Near Labour Colony 3. Near Nursery Area 4. Near Guard Room
Customer Ref. No.	BY MAIL CONFIRMATION
Duration Of Sampling	As per CPCB norms
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (PM <sub>10</sub> ): 1X1 No., Filter Paper (PM <sub>2.5</sub> ): 1X1 No. SO <sub>2</sub> : 30mlX1 No. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle, Rubber Bladder: 1X1 No.

**Test Method for Ambient Air Quality Monitoring**

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS:5182:(Part-23):2006 & CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS:5182(Part-24):2019
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182:(Part-2):2001, RA 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I
Carbon Monoxide (CO)	IS:5182:(Part-10):1999, RA 2003

**TEST REPORT**

Parameter	Unit	NAAQM Standard	Results			
			Near Guest House	Near Labour Colony	Near Nursery Area	Near Guard Room
PM <sub>10</sub>	µg/m <sup>3</sup>	100	35.41	37.79	28.70	40.51
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	20.82	24.87	16.82	29.16
SO <sub>2</sub>	µg/m <sup>3</sup>	80	12.60	15.19	13.08	10.29
NO <sub>2</sub>	µg/m <sup>3</sup>	80	21.68	24.71	23.09	20.72
CO	mg/m <sup>3</sup>	4.0	0.0012	0.0015	0.0013	0.0016

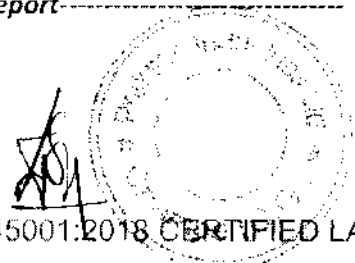
**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

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-----End of the test report-----







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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	Report No.	UES/TR/23-24/04767
	Lab Ref No.	UES/23-24/AAQM/08812-08815
	Date Of Sampling	21/08/2023
	Date Of Receipt	22/08/2023
	Date Of Report	26/08/2023
	Date Of Analysis	Start:22/08/2023      End:26/08/2023

**SAMPLE DETAILS**

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	1. Near Guest House 2. Near Labour Colony 3. Near Nursery Area 4. Near Guard Room
Customer Ref. No.	BY MAIL CONFIRMATION.
Duration Of Sampling	As per CPCB norms
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (PM <sub>10</sub> ): 1X1 No., Filter Paper (PM <sub>2.5</sub> ): 1X1 No. SO <sub>2</sub> : 30mlX1 No. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle, Rubber Bladder: 1X1 No.

**Test Method for Ambient Air Quality Monitoring**

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS:5182:(Part-23):2006 & CPCB Guidelines Vol.-1
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS:5182:(Part-24):2019
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182:(Part-2):2001, RA 2006 & CPCB Guidelines Vol.-1
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-1
Carbon Monoxide (CO)	IS:5182:(Part-10):1999, RA 2003

**TEST REPORT**

Parameter	Unit	NAAQM Standard	Results			
			Near Guest House	Near Labour Colony	Near Nursery Area	Near Guard Room
PM <sub>10</sub>	µg/m <sup>3</sup>	100	31.37	41.34	34.46	36.74
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	19.65	28.63	21.01	24.65
SO <sub>2</sub>	µg/m <sup>3</sup>	80	16.47	13.40	10.69	8.72
NO <sub>2</sub>	µg/m <sup>3</sup>	80	25.12	21.46	18.09	17.47
CO	mg/m <sup>3</sup>	4.0	0.0008	0.0012	0.0007	0.0013

REMARKS: RESULTS ARE AS ABOVE

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-----End of the test report-----





HDD-272, Phase III - Near JP Chowk  
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Name & Address Of The Customer		Report No.	UES/TR/23-24/04768
<b>To,</b>		Lab Ref No.	UES/23-24/AAQM/08816-08819
<b>PRAKASH INDUSTRIES LIMITED</b>		Date Of Sampling	28/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		Date Of Receipt	29/08/2023
<b>CHAMPA CHHATTISGARH</b>		Date Of Report	02/09/2023
		Date Of Analysis	Start: 29/08/2023 End: 02/09/2023
<b>SAMPLE DETAILS</b>			
Monitoring For	Ambient Air Quality Monitoring		
Sampling Location	1. Near Guest House 2. Near Labour Colony 3. Near Nursery Area 4. Near Guard Room		
Customer Ref No.	BY MAIL CONFIRMATION.		
Duration Of Sampling	As per CPCB norms		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	As Per Method Reference		
Sample Quantity/Packing	Filter Paper (PM <sub>10</sub> ): 1X1 No., Filter Paper (PM <sub>2.5</sub> ): 1X1 No. SO <sub>2</sub> : 30mlX1 No. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle, Rubber Bladder: 1X1 No.		

### Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS:5182: (Part-23):2006 & CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS:5182 (Part-24):2019
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182: (Part-6):2006 & CPCB Guidelines Vol.-I
Carbon Monoxide (CO)	IS:5182: (Part-10):1999, RA 2003

### TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near Guest House	Near Labour Colony	Near Nursery Area	Near Guard Room
PM <sub>10</sub>	µg/m <sup>3</sup>	100	38.73	47.61	32.52	35.34
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	25.04	33.17	20.45	23.68
SO <sub>2</sub>	µg/m <sup>3</sup>	80	14.12	18.27	9.57	11.46
NO <sub>2</sub>	µg/m <sup>3</sup>	80	23.09	29.76	19.09	22.07
CO	mg/m <sup>3</sup>	4.0	0.0010	0.0018	0.0008	0.0016

REMARKS: RESULTS ARE AS ABOVE

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ENVIRONMENTAL SOLUTIONS

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Name & Address Of The Customer		REPORT NO	UES/TR/23-24/04821
<b>To,</b>		LAB REF NO.	UES/23-24/WP/08941-09028
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF SAMPLING	21/08/2023 - 24/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF RECEIPT	25/08/2023
<b>CHAMPA CHHATTISGARH</b>		DATE OF REPORT	29/08/2023
		DATE OF ANALYSIS	START: 25/09/2023      END: 29/08/2023
SAMPLE DETAILS			
Monitoring For	Work Place Monitoring		
Customer Ref. No.	By Mail Confirmation.		
Sampling Location	As Described Below		
Duration of Sampling	8 Hours		
Sampling Type	Suspended Particulate Matter		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	As Per Method Reference		
Sample Quantity/Packing	GMF Filter Paper (8 X 10 Inch): 1x1 No.		

REPORT NO. 04821

### TEST REPORT

Sr. No.	Location	Result	Unit	Method Reference
1	Sponge Raw Material Ground Hopper	1468	µg/m <sup>3</sup>	EPA Method IO-2.1
2	Iron - RMH (Kiln-1&2) Raw Material Screening Area	1480	µg/m <sup>3</sup>	
3	Sponge Raw Material Transfer Point	1457	µg/m <sup>3</sup>	
4	Iron - RMH (Kiln-1&2) Raw Material Vibrating Screen	1458	µg/m <sup>3</sup>	
5	Sponge Raw Material Transfer Point	1426	µg/m <sup>3</sup>	
6	Iron - RMH (Kiln-3) Raw Material Vibrating Screen	1429	µg/m <sup>3</sup>	
7	Raw Material Feeding Area (Kiln-1)	1411	µg/m <sup>3</sup>	
8	Raw Material Feeding Area (Kiln-2)	1460	µg/m <sup>3</sup>	
9	Raw Material Mixing Area	1372	µg/m <sup>3</sup>	
10	Sponge Cooler Oversize Material Discharge Area (Kiln-1)	750	µg/m <sup>3</sup>	
11	Iron - Production Cooler Oversize Material (Kiln-1&2) Discharge Area (Kiln-2)	776	µg/m <sup>3</sup>	
12	Intermediate Stock 'I' BIN Area	1363	µg/m <sup>3</sup>	
13	Sponge Iron- Screening Area	1168	µg/m <sup>3</sup>	
14	Sponge Iron- Magnetic Area	1130	µg/m <sup>3</sup>	
15	Sponge Iron- Loading Area	1125	µg/m <sup>3</sup>	
16	Screening Center- Sponge Iron Oversize Discharge	1628	µg/m <sup>3</sup>	
17	Raw Material Feeding Area	1414	µg/m <sup>3</sup>	
18	Sponge Raw Material Mixing Area	1427	µg/m <sup>3</sup>	
19	Iron- Production Cooler Oversize Material (Kiln-3) Discharge Area	748	µg/m <sup>3</sup>	
20	Intermediate Stock 'I' BIN Area	1352	µg/m <sup>3</sup>	
21	Sponge Iron- Screening Area	1179	µg/m <sup>3</sup>	



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REPORT NO. 04821

TEST REPORT					
Sr. No.		Location	Result	Unit	Method Reference
22		Sponge Iron- Magnetic Separation	1145	µg/m <sup>3</sup>	
23		Sponge Iron- Loading Point	1136	µg/m <sup>3</sup>	
24		Screening Center- Sponge Iron Oversize Discharge	1624	µg/m <sup>3</sup>	
25		In Between Coal Hopper and Coal Crusher	1532	µg/m <sup>3</sup>	
26		Near Coal Fines Loading Building	1238	µg/m <sup>3</sup>	
27		Iron Ore Screening Building	1097	µg/m <sup>3</sup>	
28	Sponge Iron- RMH, RMP, Production (Kiln-4&5)	Near Sponge & Char Loading Point	1557	µg/m <sup>3</sup>	
29		In Between Transfer Tower and Product Separation Building	955	µg/m <sup>3</sup>	
30		Near Cooler Discharge Area Kiln-4	738	µg/m <sup>3</sup>	
31		Near Cooler Discharge Area Kiln-5	757	µg/m <sup>3</sup>	
32		Near Raw Material Bin Area	1215	µg/m <sup>3</sup>	
33		At Product Junction House	1168	µg/m <sup>3</sup>	
34		Raw Material Feeding Area	1439	µg/m <sup>3</sup>	
35	Sponge Iron (Kiln - 6)	Raw Material Mixing Area	1435	µg/m <sup>3</sup>	
36		Cooler Oversize Material Discharge Area	755	µg/m <sup>3</sup>	
37		Intermediate Stock 'I' BIN Area	1356	µg/m <sup>3</sup>	
38	IFD - Shed No.01 (03 ton)	Vibro Feeder	1432	µg/m <sup>3</sup>	EPA Method IO-2.1
39		Raw Material Storage Yard	1360	µg/m <sup>3</sup>	
40		Concost Machine	1049	µg/m <sup>3</sup>	
41	IFD - Shed No.02 (15 ton-1))	Vibro Feeder	1668	µg/m <sup>3</sup>	
42		Raw Material Storage Yard	1620	µg/m <sup>3</sup>	
43		Concost Machine	1248	µg/m <sup>3</sup>	
44	IFD - Shed No.03 (06 ton)	Vibro Feeder	1512	µg/m <sup>3</sup>	
45		Raw Material Storage Yard	1456	µg/m <sup>3</sup>	
46		Concost Machine	1150	µg/m <sup>3</sup>	
47	IFD - Shed No.04 (12 ton)	Vibro Feeder	1632	µg/m <sup>3</sup>	
48		Raw Material Storage Yard	1540	µg/m <sup>3</sup>	
49		Concost Machine	1148	µg/m <sup>3</sup>	
50	IFD - Shed No.05 (15 ton-2)	Vibro Feeder	1720	µg/m <sup>3</sup>	
51		Raw Material Storage Yard	1632	µg/m <sup>3</sup>	
52		Concost Machine	1241	µg/m <sup>3</sup>	
53	IFD - Shed No.06	Vibro Feeder	1686	µg/m <sup>3</sup>	
54		Raw Material Storage Yard	1618	µg/m <sup>3</sup>	
55		Concost Machine	1240	µg/m <sup>3</sup>	
56	IFD - Shed No.07 (15 ton-4)	Vibro Feeder	1762	µg/m <sup>3</sup>	
57		Raw Material Storage Yard	1636	µg/m <sup>3</sup>	
58		Concost Machine	1260	µg/m <sup>3</sup>	
59	SAF-01 to 04	Raw Material Ground Hopper	1329	µg/m <sup>3</sup>	
60		Raw Material Transfer Point	1213	µg/m <sup>3</sup>	
61		Raw Material Hopper	1174	µg/m <sup>3</sup>	



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REPORT NO. 04821

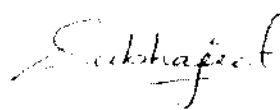
**TEST REPORT**

Sr. No.	Location	Result	Unit	Method Reference
62	Raw Material Feeding Area	1431	µg/m <sup>3</sup>	
63	Melting Shop Furnace	1039	µg/m <sup>3</sup>	
64	Raw Material Ground Hopper	1355	µg/m <sup>3</sup>	
65	Raw Material Transfer Point	1234	µg/m <sup>3</sup>	
66	Raw Material Hooper	1186	µg/m <sup>3</sup>	
67	Raw Material Feeding Area	1454	µg/m <sup>3</sup>	
68	Melting Shop Furnace	1105	µg/m <sup>3</sup>	
69	Raw Material Ground Hopper	1367	µg/m <sup>3</sup>	
70	Raw Material Transfer Point	1238	µg/m <sup>3</sup>	
71	Raw Material Hooper	1150	µg/m <sup>3</sup>	
72	Raw Material Feeding Area	1476	µg/m <sup>3</sup>	
73	Melting Shop Furnace	1045	µg/m <sup>3</sup>	
74	Raw Material Hopper	1144	µg/m <sup>3</sup>	
75	Nr. Furnace (Pan) area	1280	µg/m <sup>3</sup>	
76	Raw Material Ground Hopper	1346	µg/m <sup>3</sup>	
77	Silo Area	1182	µg/m <sup>3</sup>	EPA
78	Raw Material Ground Hopper	1358	µg/m <sup>3</sup>	Method
79	Raw Material Transfer Point	1256	µg/m <sup>3</sup>	IO-2.1
80	Silo Area	1320	µg/m <sup>3</sup>	
81	Near Old CHP	1431	µg/m <sup>3</sup>	
82	Near New CHP	1284	µg/m <sup>3</sup>	
83	In Between Silo & ESP FBB-4&5	1261	µg/m <sup>3</sup>	
84	In Between Silo & ESP FBB-6&7	1222	µg/m <sup>3</sup>	
85	Near Coal Hopper	1316	µg/m <sup>3</sup>	
86	In Between Primary & Secondary Crusher Building	1542	µg/m <sup>3</sup>	
87	Nr. Secondary screening Building	1423	µg/m <sup>3</sup>	
88	In Between CHP & CHP screening Building	1349	µg/m <sup>3</sup>	

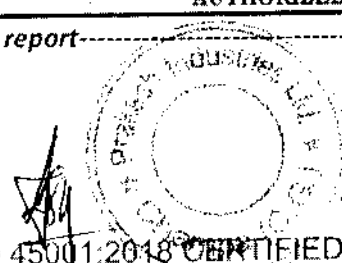
REMARKS: N.D. - NOT DETECTED

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		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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<i>Name &amp; Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/04818
<b>To,</b>		LAB REF NO.	UES/23-24/W/08938
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF SAMPLING	16/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF RECEIPT	17/08/2023
<b>CHAMPA CHHATTISGARH</b>		DATE OF REPORT	21/08/2023
		DATE OF ANALYSIS	START: 17/08/2023    END: 21/08/2023
SAMPLE DETAILS			
ORDER /REFERENCE:	BY MAIL CONFIRMATION.		
SAMPLE TYPE	1. ETP OUTLET WATER		
CUSTOMER SAMPLE ID / SAMPLING LOCATION	EFFLUENT WATER		
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN, 1 L X 1 NO. GLASS BOTTLE		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	IS:3025 (PART 1):1987 RA 2003		

TEST REPORT					
Sr. No.	Parameter	Unit	Method Reference	Limits as per Consent	Result
1.	pH at 25.0°C	-	IS:3025:(Part-11):1983, RA 2012	5.5 to 9.0	7.77
2.	Total Suspended Solids	mg/l	IS:3025:(Part 17):1984, RA 2012	100	8.44
3.	Chemical Oxygen Demand (COD)	mg/l	IS:3025:(Part-58):2006, RA 2012	250	30.0
4.	Biochemical Oxygen Demand (BOD) for 3 days at 27°C	mg/l	IS:3025:(Part-44):1993, RA 2014	30	7.0
5.	Oil & Grease	mg/l	IS:3025:(Part-39):1986	10.0	0.60

Note: mg/lit. : milligram per liter, N.D.: Not Detected.

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Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO.	UES/TR/23-24/04817
	LAB REF NO.	UES/23-24/W/08937
	DATE OF SAMPLING	16/08/2023
	DATE OF RECEIPT	17/08/2023
	DATE OF REPORT	21/08/2023
	DATE OF ANALYSIS	START:17/08/2023    END:21/08/2023

**SAMPLE DETAILS**

ORDER /REFERENCE:	BY MAIL CONFIRMATION.
SAMPLE TYPE	1. STP OUTLET WATER
CUSTOMER SAMPLE ID / SAMPLING LOCATION	EFFLUENT WATER
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN, 1 L X 1 NO. GLASS BOTTLE
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS:3025(PART I):1987 RA 2003

**TEST REPORT**

Sr. No.	Parameter	Unit	Method Reference	Limits as per Consent	Result
1.	pH at 25.0°C	-	IS:3025:(Part-11):1983, RA 2012	5.5 to 9.0	7.73
2.	Total Suspended Solids	mg/l	IS:3025:(Part-17):1984, RA 2012	100	6.65
3.	Chemical Oxygen Demand (COD)	mg/l	IS:3025:(Part-58):2006, RA 2012	250	45.0
4.	Biochemical Oxygen Demand (BOD) for 3 days at 27°C	mg/l	IS:3025:(Part-44):1993, RA 2014	30	9.0
5.	Oil & Grease	mg/l	IS:3025:(Part-39):1986	10.0	0.60

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

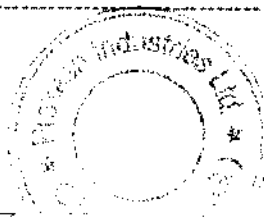
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HDD-272, Phase III - Near JP Chowk  
 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer <b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>	REPORT NO.	UES/TR/23-24/04820
	LAB REF NO.	UES/22-23/W/08940
	DATE OF SAMPLING	16/08/2023
	DATE OF RECEIPT	17/08/2023
	DATE OF REPORT	21/08/2023
	DATE OF ANALYSIS	START: 17/08/2023      END: 21/08/2023

SAMPLE DETAILS			
Customer Sample Id / Sampling Location	Ground Water (Borewell)		
Sample Type	Ground Water	Sample Condition At Receipt	Ok
Packing of Sample	Plastic Bottle (3 Ltr. x 1) Glass Bottle (2 ltr. x 1)	Sample Collected By	Laboratory Chemist
Other Details	Sealed	Quantity Received	Approx. 5Ltr.

TEST REPORT				
Sr. No.	PARAMETER	UNIT	METHOD OF TEST	RESULT
1	pH Value at 25.0°C	-	IS:3025: (Part-11)	7.12
2	Total Suspended Solids	mg/l	IS:3025: (Part-17)	7.68
3	Biochemical Oxygen Demand (BOD) for 3 days at 27°C	mg/l	IS:3025: (Part-44)	BDL
4	Chemical Oxygen Demand (COD)	mg/l	IS:3025: (part-56)	BDL
5	Oil & Grease	mg/l	IS:3025: (Part-39)	BDL

Note: mg/lit.: milligram per liter, BDL: Below Detection Limit.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only

21/08/23 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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-----End of the test report-----







HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer		REPORT NO.	UES/TR/23-24/04819
<b>To,</b> <b>PRAKASH INDUSTRIES LIMITED</b> <b>CHAMPA - 495671, DISTT.- JANJGIR</b> <b>CHAMPA CHHATTISGARH</b>		LAB REF NO.	UES/22-23/W/08939
		DATE OF SAMPLING	16/08/2023
		DATE OF RECEIPT	17/08/2023
		DATE OF REPORT	21/08/2023
		DATE OF ANALYSIS	START: 17/08/2023      END: 21/08/2023
<b>SAMPLE DETAILS</b>			
Customer Sample Id / Sampling Location	River Water - Hasdeo	Sample Condition At Receipt	OK
Sample Type	Surface Water	Sample Collected By	Laboratory Chemist
Packing of Sample	Plastic Bottle (3 Ltr. x 1) Glass Bottle (2 ltr. x 1)	Quantity Received	Approx. 5Ltr.
Other Details	Sealed		

### TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT
1	pH Value at 25.0°C	-	IS:3025: (Part-11)	7.86
2	Total Suspended Solids	mg/l	IS:3025: (Part-17)	6.79
3	Biochemical Oxygen Demand (BOD) for 3 days at 27°C	mg/l	IS:3025: (Part-44)	8.0
4	Chemical Oxygen Demand (COD)	mg/l	IS:3025: (part-58)	35.0
5	Oil & Grease	mg/l	IS:3025: (Part-39)	BDL

Note: mg/lit.: milligram per liter, BDL.: Below Detection Limit.

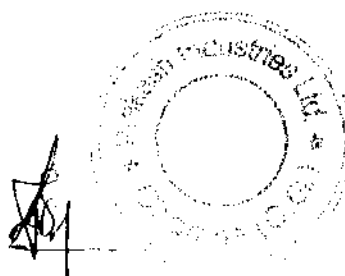
**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

- The use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer
- This is for information as the party has asked for above test(s) only

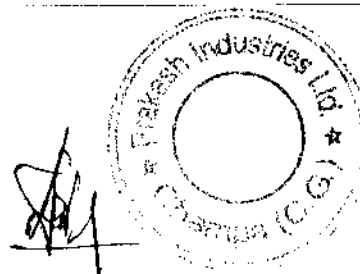
 REVIEWED BY	For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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-----End of the test report-----



**SOLID WASTE GENERATION AND UTILIZATION**  
**For the period of April 2023 to September 2023**

Sl. No.	Name of the Solid Waste	Quantity Generated (MT)	Disposal Method & Quantity	
			Disposal Method	Quantity (MT)
1	2	3	4	5
<b>A.</b>	<b>Sponge Iron Division - Kiln Waste</b>			
	<b>Kiln Waste</b>			
I	Char, Dolochar	202140	Used in CPP boiler for Power generation. Time to time temporarily stored in yard.	117792
			Over size & remaining part are Used in roads making & filling of pits.	116345
II	Wet Scrapper Dust	31997	Used in roads making & filling of pits.	
III	ESP dust		Disposal in abandoned mines. Time to time temporarily stored in yard.	
IV	Bag filter dust & other dust		Disposal in abandoned mines. Time to time temporarily stored in yard.	
	Total	234137		234137
<b>B.</b>	<b>Captive Power Plant</b>			
I	Fly ash & Bottom ash	295003	1. Used in mine filing. 2. Used in PIL Bricks plant.	295003
<b>C.</b>	<b>Induction Furnace Division</b>			
I	Slag-IFD	130305	Used in road construction & filling of low lying areas. Time to time temporarily stored in yard	130305
<b>D.</b>	<b>Sub Merged Arc Furnace</b>			
I	Slag-SAF	27921	Used in road construction & filling of low lying areas. Time to time temporarily stored in yard	27921
<b>a.</b>	<b>Iron Ore fines:</b> It is generated during handling & sizing of Iron Ore and this is by-product for us. We are using this in the plant premises for sinter & sale to nearby cement plants & in the market. Time to time temporarily stored in yard. temporarily			
<b>b.</b>	<b>Accretion Material:</b> It is generated in the Kiln and is taken out during shut down. We are using this for widening and strengthening of the roads.			
<b>c.</b>	<b>Coal dust/reject coal/ coal lumps:</b> Used in CPP boiler for Power generation. Time to time temporarily stored in yard.			



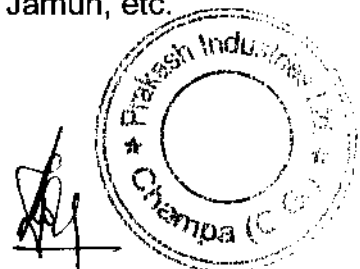
**GREEN BELT – PLANTATION REPORT**

From 1991 to December 2009 we had planted approx.1,86,640 saplings and from January 2010 to September 2023 approx. 1,40,000 saplings. Thus, the total number of saplings which we have planted and survived are approx. 3.26 Lacs. During the monsoon of 2023, we have planted approx 10,000 species in the area available in campus.

<b>Year</b>	<b>Number of Trees</b>	<b>Cumulative (Approx.)</b>
	Upto December 2009	186640
2010	10000	196640
2011	10000	206640
2012	10000	216640
2013	10000	226640
2014	10000	236640
2015	10000	246640
2016	10000	256640
2017	10000	266640
2018	10000	276640
2019	10000	286640
2020	10000	296640
2021	10000	306640
2022	10000	316640
2023	10000	326640

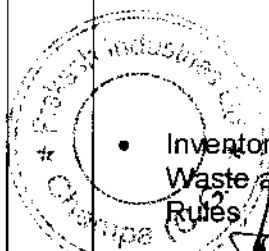
**Details of the species planted in the Premises**

Neem, Guava, Bakool, Sisso, Gulmohar, Bogan Velia ,Ashoka, Kachanar, Australian Babool, Ber, Mango, Karanj, Sagun, Arjun, Subabool, Siras, Khamar, Peltaforam, Bakayan, Nilgiri, Kaner, Imali, Jetropha, Bans, Paras, Pipal, Amla, Jamun, etc.



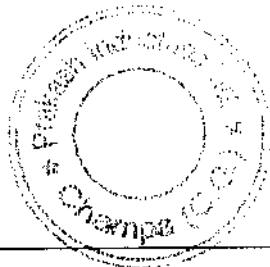
CREP – STEEL PLANT

Sl. No.	Description	Status
1	<p><b>Coke Oven Plants</b></p> <p>To meet the parameters PLD (% leaking doors), PLL (%leaking lids), PLO (% leaking off take), of the notified standards under EPA within three years (by December 2005). Industry will submit time bound action plan and PERT Chart along with the Bank Guarantee for the implementation of the same.</p>	Not Applicable
	To rebuild at least 40% of the coke oven batteries* in next 10 years (by December 2012).	Not Applicable
2	<p><b>Steel Melting Shop</b></p> <p>Fugitive emissions: To reduce 30% by March 2004 and 100% by March 2008 (including installation of secondary de-dusting facilities).</p>	We have installed Exhaust fans on the top of the furnace sheds, which are very effective and due to this 30% fugitive emission is reduced. We have also commissioned Fume Extraction System (Venturi Scrubber) in all 06 sheds and Bag filter system in one shed to complete reduction of emission.
3	<p><b>Blast Furnace</b></p> <p>Direct inject of reducing agents — by June 2013.</p>	Not Applicable
4	<p><b>Solid Waste / Hazardous Waste Management</b></p> <p>Utilization of Steel Melting Shop (SMS) / Blast Furnace (BF) Slag as per the following schedule.</p> <ul style="list-style-type: none"> <li>• By 2004 - 70%,</li> <li>• By 2006 – 80% and</li> <li>• By 2007 – 100%</li> </ul> <p><b>Hazardous Wastes</b></p> <p>Charge of tar sludge / ETP sludge to Coke Oven by June 2003.</p>	<p>Slag is generated from Induction Furnaces. This slag is Processed in a crusher for separation of metallic and nonmetallic parts. Metallic part is again utilized in furnaces, where as non-metallic part is used for road construction and for filling of low-lying areas inside the plant.</p> <p>Utilization of slag is given in <b>Annexure III</b>.</p> <p>As per Hazardous Waste Rules amended till date, waste-lubricating oil is generated as Hazardous waste. Authorization under Hazardous waste rules has been granted to us from CECB.</p> <p>Plant is granted Hazardous Waste Authorization for capacity of 20000 Litre/year used/spent oil and 10-15 Litre/Annum. We have sold 9.78 MT of used oil to the</p>



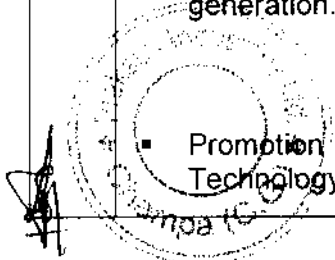
## Prakash Industries Limited, Champa

	<p>implementation of the Rules by Dec. 2003.</p> <ul style="list-style-type: none"> <li>(Tar sludge, acid sludge, waste lubricating oil and type fuel falls in the category of Hazardous Waste).</li> </ul>	<p>CPCB authorized recyclers for the period of 2023-2024. Used Ion exchange material (waste resin) is yet to be generated from DM plant, when it will generate then we will sale to CPCB authorized recyclers.</p>
5	<p><b>Water Conservation / Water Pollution</b></p> <ul style="list-style-type: none"> <li>To reduce specific water consumption to 5 m<sup>3</sup>/t for long products and 8 m<sup>3</sup>/t for flat products by December 2005.</li> <li>To operate the CO-BP effluent treatment plant efficiently to achieve the notified effluent discharge standards. - by July 2003.</li> </ul>	<p>We are manufacturing Blooms and Billets through concast and selling them in market. We are not manufacturing any long/flat products and therefore this is not applicable.</p> <p>Not Applicable.</p>
6	<p>Installation of Continuous stack monitoring system &amp; its calibration in major stacks and setting up of the online ambient air quality monitoring (AAQM) stations by June 2005.</p>	<p>We have already installed continuous stack monitoring systems &amp; gas analyzers in all major stacks and its calibration is being done on regularly.</p> <p>Four online ambient air quality monitoring (AAQM) station are established.</p>
7	<p>To operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard be submitted to CPCB / SPCB every three months.</p>	<p>Separate logbook is maintained for each pollution control equipments like ESP, Bag House, Bag Filter etc. We are submitting the record of pollution control equipments to SPCB on monthly basis.</p> <p>As per the requirement, we carry out performance study of different pollution control equipments and accordingly necessary changes, if required, are done to run the equipment efficiently.</p>
8	<p>To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MoEF by December 2003.</p>	<p>We have taken necessary corrective measures to make the entire process efficient with optimal utilization of resources &amp; minimal waste generation. In this regard,</p> <ol style="list-style-type: none"> <li>I. We are using hot gases for the generation of power through Waste Heat Recovery Boilers (WHRB).</li> <li>II. The char generated from Sponge Iron Plant is used in CPP Boilers for Power generation, as fuel.</li> <li>III. We are utilizing coal fines in the process after making the briquettes.</li> <li>IV. We have adopted metal recovery process from the slag in Induction Furnace Division (IFD) and Submerge Arc Furnace (SAF) which is minimizing resources depletions.</li> <li>V. Fly ash is being used for beneficial applications like Bricks / Blocks manufacturing &amp; in various concrete applications.</li> <li>VI. We have installed Sewage effluent treatment plant (STP) for the treatment of domestic effluent. Treated effluent from STP is used in plantation &amp; horticultural purposes.</li> <li>VII. We have also established Effluent treatment plant (ETP) for the treatment of</li> </ol>



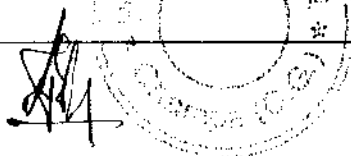
## Prakash Industries Limited, Champa

		<p>industrial waste water. Treated effluent is being reused in road cleaning, water sprinkling, dust suppression, moisturisation in pug mill etc.</p> <p>VIII. We have implemented Rainwater harvesting system in open area of the plant for conservation of rain water for utilization in different applications of the plant and for recharging the ground water.</p>
<p>9</p>	<p>The industry will initiate the steps to adopt the following clean technologies/measures to improve the performance of industry towards production, energy and environment.</p> <ul style="list-style-type: none"> <li>• Energy recovery of top Blast Furnace (BF) gas.</li> <li>• Use of Tar-free runner linings.</li> <li>• De-dusting of Cast House at tap holes, runners, skimmers, ladle and charging points.</li> <li>• Suppression of fugitive emissions using nitrogen gas or other inert gas.</li> </ul> <ul style="list-style-type: none"> <li>• To study the possibility of slag and fly ash transportation back to the abandoned mines, to fill up the cavities through empty railway wagons while they return back to the mines and its implementation.</li> <li>• Processing of the waste containing flux &amp; ferrous wastes through waste recycling plant.             <ul style="list-style-type: none"> <li>▪ To implement rainwater harvesting.</li> </ul> </li> </ul> <ul style="list-style-type: none"> <li>▪ <b>Reduction of Green House Gases by:</b></li> <li>▪ Reduction in power consumption</li> </ul> <ul style="list-style-type: none"> <li>▪ Use of by-products gases for power generation.</li> </ul> <ul style="list-style-type: none"> <li>▪ Promotion of Energy Optimization Technology including energy audit.</li> </ul>	<p>Not Applicable</p> <p>Not Applicable</p> <p>We have provided fume extraction system/ de-dusting system to control dust and harmful gases.</p> <p>Compliance assured.</p> <p>We are sending fly ash to the permitted abandoned mines.</p> <p>Not Applicable</p> <p>We have already implemented rainwater-harvesting system in vacant land area of the plant and roof water harvesting in colony area.</p> <p>Time to time, we are conducting Energy Audit and various steps are taking for promotion of reduction of power consumption. Also we are conducting training programmes to educate the employees for reduction of power consumption. ISO 50001 Energy management system is awarded to the company.</p> <p>We have already installed Six Waste heat recovery boilers, out of which we are generating 75 MW power.</p> <p>Time to time, we are conducting Energy Audit from external agency and various steps</p>



## Prakash Industries Limited, Champa

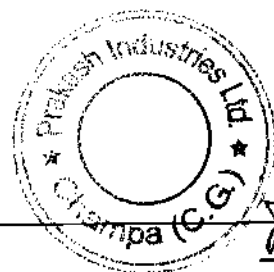
		are being taken for promotion of energy optimization. ISO 50001 Energy management system is awarded to our company.
	<ul style="list-style-type: none"> <li>To set targets for Resource Conservation such as Raw material, energy and water consumption to match International Standards.</li> </ul>	The company has also been awarded ISO 9001, ISO 14001, ISO 45001 and ISO 50001 and we are committed to conserve natural resources.
	<ul style="list-style-type: none"> <li>Up-gradation in the monitoring and analysis facilities for air and water pollutants. Also to impart elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.</li> </ul>	<p>We have established separate Environment, Health &amp; Safety Department, headed by eminent Environmentalist. In the same department separate environmental laboratory has also been established. We have installed latest equipments in the laboratory for monitoring and analysis for air and water pollutants like BOD incubator, Oven, pH meter, Water bath, Respirable dust samplers, Stack monitoring kit, Noise level meter, Conductivity meter, Turbidity meter, Lux Meter, Gas Analyzer, Ambient Air Analyzer etc.</p> <p>We are providing periodic training regarding environmental awareness from top to bottom level management. Simultaneously, we also provide training to the persons of EHS Department for effective monitoring and analysis.</p>
	<ul style="list-style-type: none"> <li>To improve overall housekeeping.</li> </ul>	<p>To improve overall housekeeping some of the steps are already taken such as:</p> <ul style="list-style-type: none"> <li>- Water sprinklers are provided for dust suppression on both sides of the roads.</li> <li>- Roads made pucca by concrete or with the help of fly ash bricks/blocks.</li> <li>- We have planted 10,000 trees during monsoon of year 2023.</li> <li>- Water sprinkling through water tanker in raw material storage area and in internal roads where sprinklers are not installed.</li> <li>- Automatic sweeping machine has been provided for road cleaning purpose.</li> <li>- Day to day manual road sweeping and trenches cleaning are also in practice.</li> <li>- 5 S systems have been introduced for better housekeeping.</li> <li>- Total plant area divided into 14 Nos of Zones and Zone leaders are nominated for each Zones; further rewards system has also been introduced for best housekeeping zone.</li> </ul>
10	<p><b>Sponge Iron Plants</b>            Inventorization of sponge iron plants to be completed by SPCBs/CPCB by June 2003 and units will be asked to install proper air pollution control equipment by December 2003 to control primary and secondary emissions.</p>	<p>We have set up the state-of-the art sponge iron plant with waste heat recovery boilers. In plant all Pollution generating points are connected with pollution control equipment like Electrostatic Precipitators (ESPs), Bag House, Dust Suppression system, Fume Extraction System, Sprinklers etc.</p>



# Prakash Industries Limited, Champa

## CREP – THERMAL POWER PLANT

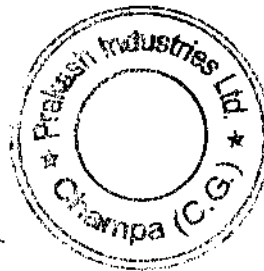
Sl. No.	Description	Status
1	<p>Implementation of Environmental Standards (Emission &amp; Effluent) in non-compliant* Power plants (31 &amp; 27).</p> <ul style="list-style-type: none"> <li>- Submission of action plan: June 30, 2003.</li> <li>- Placement of order for pollution control equipment: September, 2003.</li> <li>- Installation &amp; commission: December 31, 2005.</li> </ul>	We are complying all environmental standards in our captive power plant.
2	For existing Thermal power plants, a feasibility study shall be carried out by Central Electricity Authority (CEA) to examine possibility to reduce the particulate emissions to 100 mg/Nm <sup>3</sup> . The studies shall also suggest the road map to meet 100 mg/Nm <sup>3</sup> wherever found feasible. CEA shall submit report by March 2004.	As per study report, actions have been complied, we are maintaining emission level below 50 mg/Nm <sup>3</sup> .
3	New/expansion power projects to be accorded environmental clearance on or after 1.04.2003 shall meet the limit of 100 mg/Nm <sup>3</sup> for particulate matter.	We have commissioned 162.5 MW captive power plants based on fluidized bed boiler. In these units, we have installed ESPs (7 no.) with efficiency of more than 99.8 % to achieve the prescribed standard below 50 mg/Nm <sup>3</sup> .
4	<p>Development of SO<sub>2</sub> &amp; NO<sub>x</sub> emission standards for coal based plants by December 2003.</p> <ul style="list-style-type: none"> <li>- New/expansion power projects shall meet the limit of SO<sub>2</sub> &amp; NO<sub>x</sub> w. e. f. 1.1.2005.</li> <li>- Existing power plants shall meet the limit of SO<sub>2</sub> &amp; NO<sub>x</sub> w.e.f. 1.1.2006.</li> </ul>	We have provided appropriate stack height as per the guidelines and achieving the prescribed standard.
5	Install/activate Opacity meters/continuous monitoring systems in all the units by December 31, 2004 with proper calibration system.	We have already installed continuous stack monitoring system, gas analyzers & Mercury analyzers with proper calibration in all units.
6	Development of guidelines/standards for mercury and other toxic heavy metals by December 2003.	We have already installed continuous Mercury analyzers (monitoring system) with proper calibration in all units.
7	Review of stack height requirement and guidelines for power plants based on micro meteorological data by June 2003.	<p>Stack Height <math>H = 14 (Q)^{0.3}</math></p> <p>Where H = Stack Height</p> <p>Q = Emission rate of SO<sub>2</sub> in kg/hr.</p> <p>Based on this formula stack height should be required to be 59 Mtr (12.5 MW power plant) and 80 Mtr. (50 MW power plant) for our existing power plants, where as we have provided stack height 61 mtr &amp; 80 mtr respectively.</p>
8	<p>Implementation of use of beneficiated coal as per GOI notification.</p> <p>Power plant will sign fuel supply agreement (FSA) to meet the requirement as per the matrix prepared by CEA for compliance of the notification as shot term measure.</p> <p>Options/mechanism for setting up of coal washeries as a long-term measure.</p> <ul style="list-style-type: none"> <li>• Coal India will set up its own washery.</li> <li>• State Electricity Board to set up its own</li> </ul>	We have signed Fuel Supply Agreement with Coal India Ltd., for coal linkages.





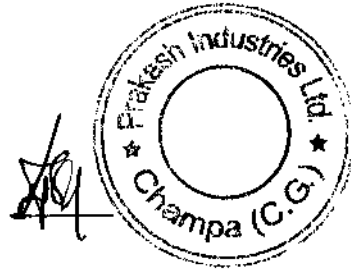
## Prakash Industries Limited, Champa

	<p>washery.</p> <ul style="list-style-type: none"> <li>• Coal India to ask private entrepreneurs to set up washeries for CIL and taking washing charges.</li> </ul>	
9	Power plants will indicate their requirement of abandoned coalmines for ash disposal & Coal India/MOC shall provide the list of abandoned mines by June 2003 to CEA.	<p>We asked for the list of abandoned mines from Mining Division, Distt. Janjgir – Champa. Assistant Mining Officer has provided us the list of abandoned mines in District Janjgir- Champa.</p> <p>Based on the generation &amp; utilization of fly ash, we are obtaining approval for disposal of fly ash in abandoned mines. Details of fly ash utilization are attached herewith as <b>Annexure – IV</b>.</p>
10	Power plants will provide dry ash to the users outside the premises or uninterrupted access to the users within six months.	We have installed Silo for dry ash storage and providing dry ash to the users outside the plant premises.
11	Power plants should provide dry fly ash free of cost to the users.	We are providing dry fly ash free of cost.
12	State PWDs/construction & development agencies shall also adhere to the specifications/Schedules of CPWD for ash/ash based products utilization. MOEF will take up the matter with state Governments.	We are ready to give fly ash free of cost to state PWDs / construction & development agency. But till date we have not noticed any enforcement from the State Govt. or Central Govt. to the Govt. agency for use of fly ash/ash based products however we are utilizing fly ash for back filling of mines.
13	<p>(i) New plants to be accorded environmental clearance on or after 1.04.2003 shall adopt dry fly ash extraction or dry disposal system or medium (35-40%) ash concentration slurry disposal system or Lean phase with hundred percent ash where re-circulation system depending up on site specific environmental situation.</p> <p>(ii) Existing plants shall adopt any of the systems mentioned in (i) by December 2004.</p>	We have already provided dry fly ash disposal system (Pneumatic Ash Conveying Line).
14	Fly ash mission shall prepare guidelines/manuals for fly ash utilization by March 2004.	We are utilizing fly ash as per the norms sets by the authorities.
15	New plants shall promote adoption of clean coal and clean power generation technologies.	Clean power generation technology is adopted.

**DETAILS OF CORPORATE SOCIAL RESPONSIBILITY EXPENSES**

Sl. No.	For the period of April – 2023 to September – 2023	
	Details of important work done at site (Panchayat/Villages) etc	Expenses in lacs
1	Drinking Water Facility	21.72
2	Promotion of education	88.31
3	Health care	78.47
4	Environmental awareness- Plantation and water conservation	7.44
5	Miscellaneous (Infrastructure development, expenses reference to cultural programe, welfare & social causes etc.)	45.93
	<b>Total</b>	<b>241.87</b>





**Ultimate**  
ENVIRONMENTAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name &amp; Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/04769
<b>To,</b>		LAB REF NO.	UES/23-24/AAQM/08820-08852
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF REPORT	31/08/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF MONITORING	27/08/2023 to 28/08/2023
<b>CHAMPA CHHATTISGARH</b>			
SAMPLE DETAILS			
Monitoring For	Ambient Noise Level Monitoring		
Customer Ref. No.	By Mail Confirmation.		
Sampling Location	Mentioned Below		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	Manufacturer's Instruction		

REPORT NO. 04769

TEST REPORT						
Sr. No.	LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
			DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
1	Nr. R.M.P. Office (Kiln-1,2&3)	dB(A)	65.7	57.2		
2	Nr. Control Room of Kiln- 1&2	dB(A)	68.1	61.7		
3	Nr. Control Room of Kiln-3	dB(A)	69.5	62.5		
4	Nr. Bag House area of Kiln- 1&2	dB(A)	71.4	62.7		
5	Nr. Bag House area of Kiln- 3	dB(A)	73.7	64.4		
6	Nr. Control room of Kiln- 4&5	dB(A)	73.6	68.2		
7	Nr. Bag House area of Kiln- 4&5	dB(A)	70.2	62.3		
8	Nr. R.M.P. Office of Kiln-4,5,6	dB(A)	66.4	57.7	75	70
9	Nr. Control room of Kiln- 6	dB(A)	70.2	60.2		
10	Nr. Bag House area of Kiln- 6	dB(A)	71.4	62.4		
11	Nr. Cooling Tower of WHRB- 1,2&3	dB(A)	72.4	63.5		
12	Nr. Control Room of WHRB- 3	dB(A)	69.5	61.5		
13	Cooling Tower of FBB-2&3	dB(A)	71.8	62.7		
14	Nr. Cooling Tower of FBB-4&5	dB(A)	70.2	61.4		
15	Nr. Cooling Tower of FBB-6&7	dB(A)	72.4	63.7		
16	Nr. Bag House Area of SAF- 1&2	dB(A)	72.4	64.1		



**Ultimate**  
ENVIROLYTICAL SOLUTIONS

HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph . 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

REPORT NO. 04769

**TEST REPORT**

Sr. No.	LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
			DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
17	Nr. Bag House Area of SAF- 3&4	dB(A)	72.1	63.7		
18	Nr. Bag House Area of SAF- 5&6	dB(A)	70.2	62.5		
19	Nr. Bag House Area of SAF- 7	dB(A)	73.4	64.4		
20	Nr. Bag House Area of SAF- 8&9	dB(A)	70.6	62.7		
21	Nr. Pump House & New. Engg. Office	dB(A)	68.1	61.7		
22	Nr. Central Work Shop	dB(A)	71.4	63.7		
23	Nr. Engg. Office	dB(A)	69.5	61.4		
24	Nr. Hanuman Temple	dB(A)	66.4	57.6		
25	Nr. AAQM No- 1	dB(A)	65.2	58.3		
26	Nr. AAQM No- 2	dB(A)	62.7	54.1		
27	Nr. AAQM No- 3	dB(A)	66.4	57.4		
28	Nr. AAQM No- 4	dB(A)	64.2	55.7		
29	Nr. Plant Gate	dB(A)	68.1	57.5		
30	Nr. Main Gate (Old)	dB(A)	60.2	52.7		
31	Nr. Main Gate (New)	dB(A)	62.7	54.2		
32	Nr. Hazardous Waste shed area	dB(A)	65.8	58.1		
33	At Colony Square	dB(A)	63.4	52.2		

**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

For ULTIMATE ENVIROLYTICAL SOLUTIONS

REVIEWED BY

AUTHORIZED SIGNATORY

-----Ends of the test report-----



HDD-272, Phase III - Near JP Chowk  
 Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

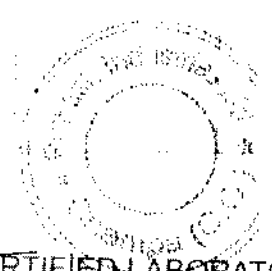
<i>Name &amp; Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/04770
<b>To,</b>		LAB REF NO.	UES/23-24/N/08853-08890
<b>PRAKASH INDUSTRIES LIMITED</b>		DATE OF REPORT	30/06/2023
<b>CHAMPA - 495671, DISTT.- JANJGIR</b>		DATE OF MONITORING	26/06/2023 to 27/06/2023
<b>CHAMPA CHHATTISGARH</b>			

SAMPLE DETAILS	
Monitoring For	Workplace Noise Level Monitoring
Customer Ref. No.	By Mail Confirmation.
Sampling Location	Mentioned Below
Sample Collected By	Laboratory Chemist
Sampling Procedure	Manufacturer's Instruction

REPORT NO. 04770

### TEST REPORT

Sr. No.	LOCATION	UNIT	RESULT DB(A)		LIMIT	
			DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
1	Compressor Room of Kiln- 1&2	dB(A)	80.2	74.3		
2	Compressor Room of Kiln-3	dB(A)	78.9	73.6		
3	DG Set- Kiln- 4,5&6	dB(A)	69.1	64.2		
4	Nr. Ground Hopper (Raw Material) of Kiln- 4,5,6	dB(A)	69.1	64.1		
5	Nr. Compressor Room of Kiln-4&5	dB(A)	81.4	74.3		
6	Nr. Compressor Room of Kiln-6	dB(A)	79.5	73.6		
7	DG Set - Kiln-1,2,3 & FBB-1	dB(A)	68.4	62.1		
8	T.G. Room of WHRB- 1&2	dB(A)	80.2	73.6		
9	Nr. T.G. Area FBB-1	dB(A)	81.7	73.4		
10	T.G. Room of FBB-2&3	dB(A)	80.2	74.3	85	80
11	Compressor Room of FBB- 2&3	dB(A)	81.4	75.6		
12	DG Set - FBB- 2&3	dB(A)	69.5	64.2		
13	T.G. Room of FBB- 4&5	dB(A)	82.7	74.1		
14	T.G. Room of FBB- 6&7	dB(A)	83.8	77.8		
15	Compressor Room of FBB- 4,5,6&7	dB(A)	81.4	74.3		
16	Coal Handling plant of FBB- 4,5,6&7	dB(A)	68.7	63.2		
17	DG Set - FBB - 4,5,6&7	dB(A)	69.4	64.7		
18	IFD - Shed - 1 Furnace Area	dB(A)	69.2	63.5		





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Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

REPORT NO. 04770

### TEST REPORT

Sr. No.	LOCATION	UNIT	RESULT DB(A)		LIMIT	
			DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
19	IFD - Shed - 2 Furnace Area	dB(A)	70.1	64.3		
20	IFD - Shed - 3 Furnace Area	dB(A)	70.4	64.2		
21	IFD - Shed - 4 Furnace Area	dB(A)	71.6	66.3		
22	IFD - Shed - 5 Furnace Area	dB(A)	70.2	64.2		
23	IFD - Shed - 6 Furnace Area	dB(A)	71.4	64.6		
24	IFD - Shed - 7 Furnace Area	dB(A)	69.5	63.2		
25	DG Set - IFD - Shed - 1&2 Shed - 7	dB(A)	68.1	61.3		
26	DG Set - IFD - Shed - 3	dB(A)	67.5	62.7		
27	DG Set - IFD - Shed - 4,5 & Shed - 6	dB(A)	69.5	63.6		
28	Oxygen Plant Area	dB(A)	81.4	73.5	85	80
29	Nr. Furnace Area of SAF- 1&2	dB(A)	71.7	63.8		
30	Nr. Furnace Area of SAF- 3&4	dB(A)	70.2	64.6		
31	Nr. Furnace Area of SAF- 5&6	dB(A)	68.1	62.3		
32	Nr. Furnace Area of SAF- 7	dB(A)	71.5	63.2		
33	Nr. Furnace Area of SAF- 8&9	dB(A)	72.6	65.2		
34	DG Set - SAF- 1 to 9	dB(A)	67.1	62.3		
35	Sinter Plant Area	dB(A)	65.3	59.2		
36	Pump House Compressor Room	dB(A)	82.7	74.6		
37	DG Set - Nr. Central Store	dB(A)	66.2	61.2		
38	Nr. S.T.P.	dB(A)	71.4	65.7		

**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

For ULTIMATE ENVIROLYTICAL SOLUTIONS

REVIEWED BY

AUTHORIZED SIGNATORY

-----Ends of the test report-----

Annekaure-1K

# Prakash Industries Limited Champa

## PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION REPORT - FORM 21

Date: 12-05-23 Dt. Pr. MED: 07-04-2022 Date of JMC: 25-07-2011  
 Employee's Name: RAKESH KUMAR YADAV Age: 35 Sex: MALE  
 Code No: S3089 Division/Section: PP & U AX 25 MW-OPRN: ENGINEER Intercorn/Mob: 9171279309

### (1) GENERAL EXAMINATION :

HEIGHT: 173 CM, WEIGHT: 85 KG, BMI: 28.4 kg/m<sup>2</sup>  
 CHEST: INSPIRATION: CM, EXPIRATION: CM  
 BUILT - AVERAGE / STRONG / POOR - AVERAGE  
 THROAT: Normal TONGUE: clean TONSILS: not large  
 TEETH: clean GUMS: strong THYROID: NAD  
 LYMPH NODES: photo  
 ADDITIONAL FINDINGS:

### (2) CARDIO-VASCULAR SYSTEM :

PULSE: 72 / MIN. REGULAR / IRREGULAR PERIPHERAL PULSE - FELT / NOT FELT  
 B.P.: 120/70 mm of Hg.  
 HEART SOUND: Rhythmic  
 MURMUR IF ANY: photo  
 ADDITIONAL FINDING (S), IF ANY:

### (3) RESPIRATORY SYSTEM :

SHAPE OF CHEST: Semi Caudate  
 CHEST MOVEMENT: Active  
 TRACHEA: Normal  
 BREATH SOUNDS: clear

### (4) GASTRO-INTESTINAL SYSTEM :

LIVER: NAD SPLEEN: NAD  
 ANY ABDOMINAL LUMPS: NAD

### (5) EXAMINATION OF EYES :

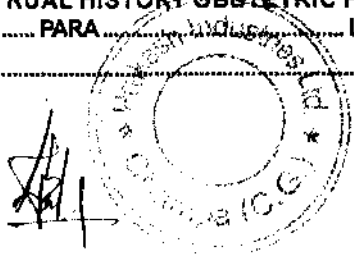
EXTERNAL EXAM: Normal SQUINT: No  
 NYSTAGMUS: NO  
 COLOUR VISION - NORMAL / DEFECTIVE FUNDUS (L) (R)  
 INDIVIDUAL COLOUR IDENTIFICATION: NORMAL / DEFECTIVE  
 DISTANT VISION (WITHOUT GLASSES)  
 RIGHT: 6/6 LEFT: 6/6  
 DISTANT VISION (WITH GLASSES)  
 RIGHT: LEFT:  
 NEAR VISION (WITHOUT GLASSES)  
 RIGHT: 1/6 LEFT: 1/6  
 NEAR VISION (WITH GLASSES)  
 RIGHT: LEFT:  
 NIGHT BLINDNESS (NYCTALOPIA): No

### (6) EXAMINATION OF EAR, NOSE & THROAT :

EXTERNAL EXAM: Normal

### (7) GENITO URINARY SYSTEM :

HERNIA: No HYDROCELE / VARICOCELE: No  
 CRYPTORCHIDISM: No PHIMOSIS: No VARICOS VEINS: No SIGNS OF STD  
 OTHER EXAMINATION FOR FEMALE: MENSTRUAL HISTORY OBSTETRIC HISTROY MENARCHE AT  
 YRS GRAVIDA PARA LMP  
 MENSTRUAL IRREGULARITY, IF ANY



**INVESTIGATIONS**

**(8) LAB INVESTIGATIONS :**

URINE : ALBUMIN nil SUGAR nil

MICROSCOPY normal STOOL normal

HAEMOGRAM normal

BLOOD GROUP: ..... RH FACTOR: ..... HB 14.2 TLC 7.9 x 10<sup>9</sup>/L RBC 5.2 x 10<sup>12</sup>/L

Platelets Count: 370 x 10<sup>9</sup>/L DLC % Neu: 53.6 Lym: 37.5 Est: 2.9 Mon: 5.8 Bas: 0.27

**LIPID PROFILE**

Serum cholesterol: 248 mg/dl S/Triglycerides 188 mg/dl

HDL 50 mg/dl LDL 142 mg/dl

**HEPATIC PROFILE**

SGPT: 27 u/L SGOT: 23 u/L

Alkaline Phosphatase: 50 u/L

**RENAL PROFILE**

Blood Urea: 16 mg/dl S/Creatinine: 0.8 mg/dl

**METABOLIC**

Blood Sugar-F: 70 mg/dl Blood Sugar-PP: 99 mg/dl S/uricacid: 6.8 mg/dl

**(9) OTHER INVESTIGATIONS**

X-Ray Chest (In normal persons once in three years, Done in case of any abnormality X-Ray can be done at shorter intervals).

ECG (in case of any abnormality further tests should be carried out) Done

Ultra Sound Whole abdomen (In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Others: .....

**(10) PULMONARY FUNCTION TEST**

	FVC	FEV1	FVC/FEV1
Predicted	3.67	3.06	83.24
Measured	3.07	2.95	95.92
% of Prediction	84	96	115

Remarks: .....

**(11) Audiometry examination - (PTA of both ears at frequency of 125, 250, 500, 1000, 2000, 4000, 8000**

Cycles per second) 

RT:		DB	LT:		DB
-----	--	----	-----	--	----

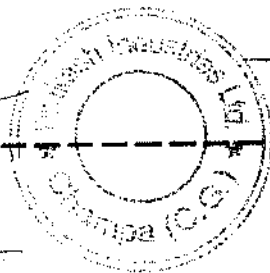
Remarks: .....

**(12) Medical examination of canteen staff**

- a- Blood examination for venereal disease and routine blood examination .....
- b- Stool and urine examination for worm infection .....
- c- Screening of skin disease (scabies and others) .....
- d- X-ray and other tests for T.B. ....

**(13) Details of Other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. factories rules 1962 -**

Signature (with date) of  
23/10/2018  
 Factory Medical Officer

S. Agenc  






Clarity Medical Pvt. Ltd.

23023089 - RAKESH KUMAR YADAV  
35 Years / Male / Ht 173 Cms / 85 Kgs / Non-Smoker

### FVC TEST

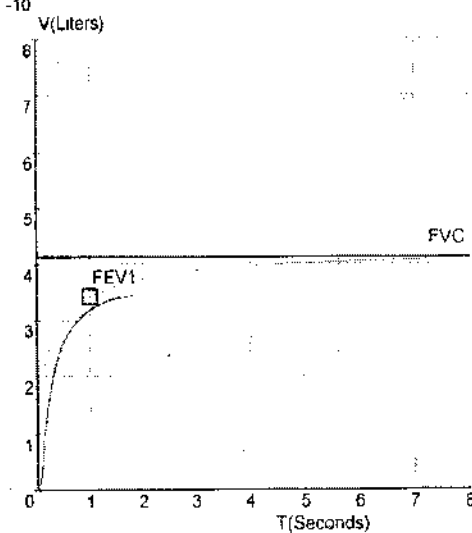
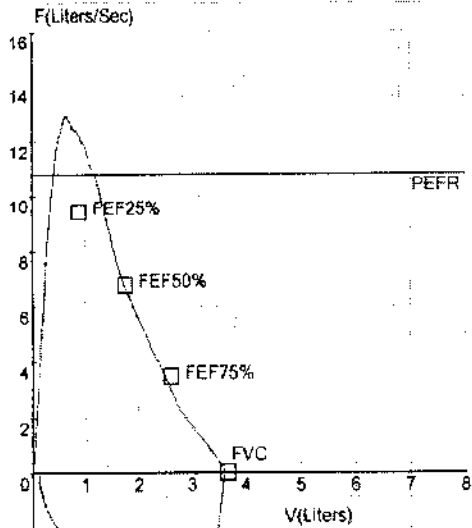
Date: 12-05-2023 (T1)

Pred Eqn : CLARITY

Eth.Corr : 100

Temp : 0°C

Ref By : NONE

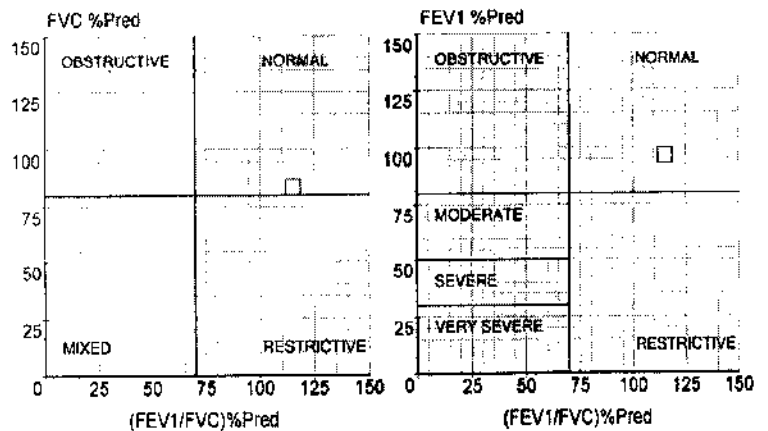
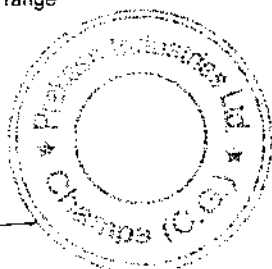


Parameter	Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L] 3.67	3.07	84	--	--	--
FEV1	[L] 3.06	2.95	96	--	--	--
FEV.5	[L] --	2.50	--	--	--	--
FEV3	[L] 3.56	--	--	--	--	--
FEV6	[L] --	--	--	--	--	--
PEFR	[L/s] 9.24	11.11	120	--	--	--
FEF25-75	[L/s] 4.22	6.05	143	--	--	--
FEF75-85	[L/s] --	1.89	--	--	--	--
FEF.2-1.2	[L/s] 7.38	9.33	126	--	--	--
FEF25%	[L/s] 8.09	11.48	142	--	--	--
FEF50%	[L/s] 5.85	6.41	110	--	--	--
FEF75%	[L/s] 2.97	2.41	81	--	--	--
FEV.5/FVC	[%] --	81.38	--	--	--	--
FEV1/FVC	[%] 83.24	95.92	115	--	--	--
FEV3/FVC	[%] 97.00	--	--	--	--	--
FEV6/FVC	[%] --	--	--	--	--	--
FEV1/FEV6	[%] --	--	--	--	--	--
FET	[S] --	1.42	--	--	--	--
ExpTime	[S] --	0.09	--	--	--	--
LungAge	[Y] 35.00	36.00	103	--	--	--
FIVC	[L] --	3.00	--	--	--	--
PIFR	[L/s] --	3.86	--	--	--	--
FIF25%	[L/s] --	12.06	--	--	--	--
FIF50%	[L/s] --	7.36	--	--	--	--
FIF75%	[L/s] --	3.69	--	--	--	--
FIV.5	[L] --	0.02	--	--	--	--
FIV1	[L] --	0.79	--	--	--	--
FIV3	[L] --	--	--	--	--	--
FIV.5/FIVC	[%] --	0.52	--	--	--	--
FIV1/FIVC	[%] --	26.24	--	--	--	--
FIV3/FIVC	[%] --	--	--	--	--	--

- Pre Medication Report :  
Spirometry within Normal range as FVC% >= 80 And FEV1/FVC% > 70

- Pre COPD Severity Report:  
Pre Test within Normal range

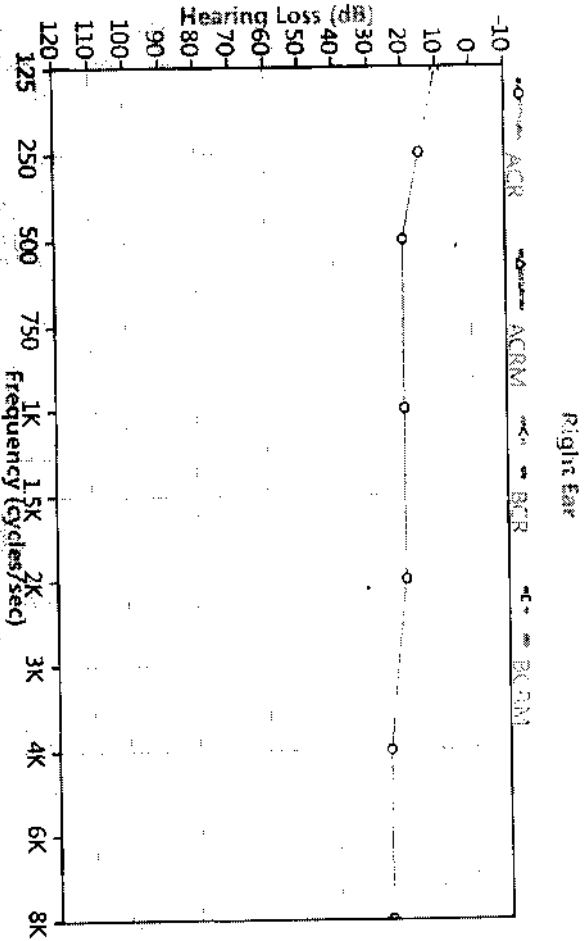
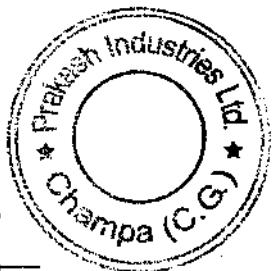
- Doctor's Comments :



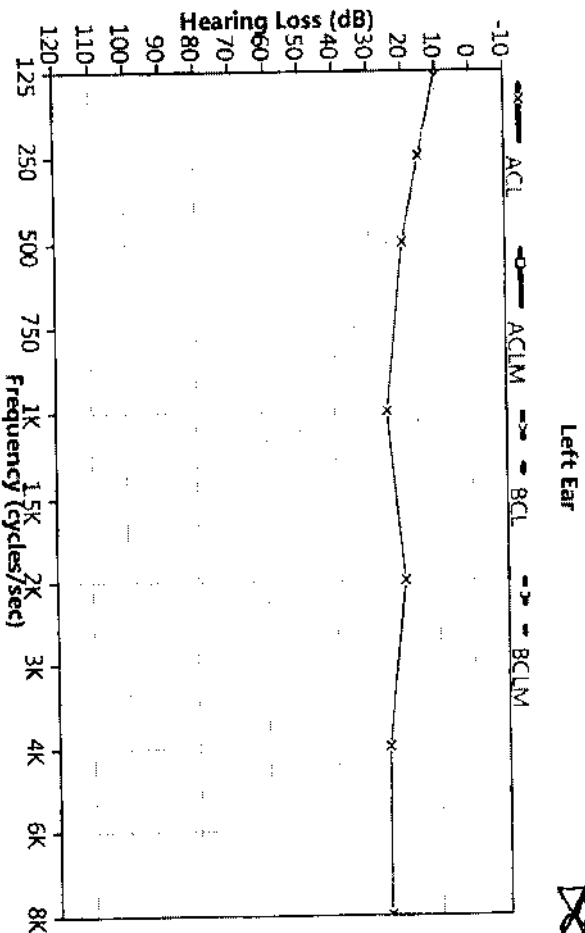
NONE  
NA

**PRAKASH INDUSTRIES LIMITED**  
**JANJIR-CHAMPA, CHHATTISGARH**

Patient Name : 23023089/PRAKESH KUMAR YADAV  
 Ref No : 14514  
 Test Date : 05/12/2023  
 Operator Comments  
 Doctor Comments



(RT) 19.285 dB



(L) 20 dB

Arphi 2001 Diagnostic Audiometer  
 Manufacturers of Quality Hearing Aids and Diagnostic Equipments

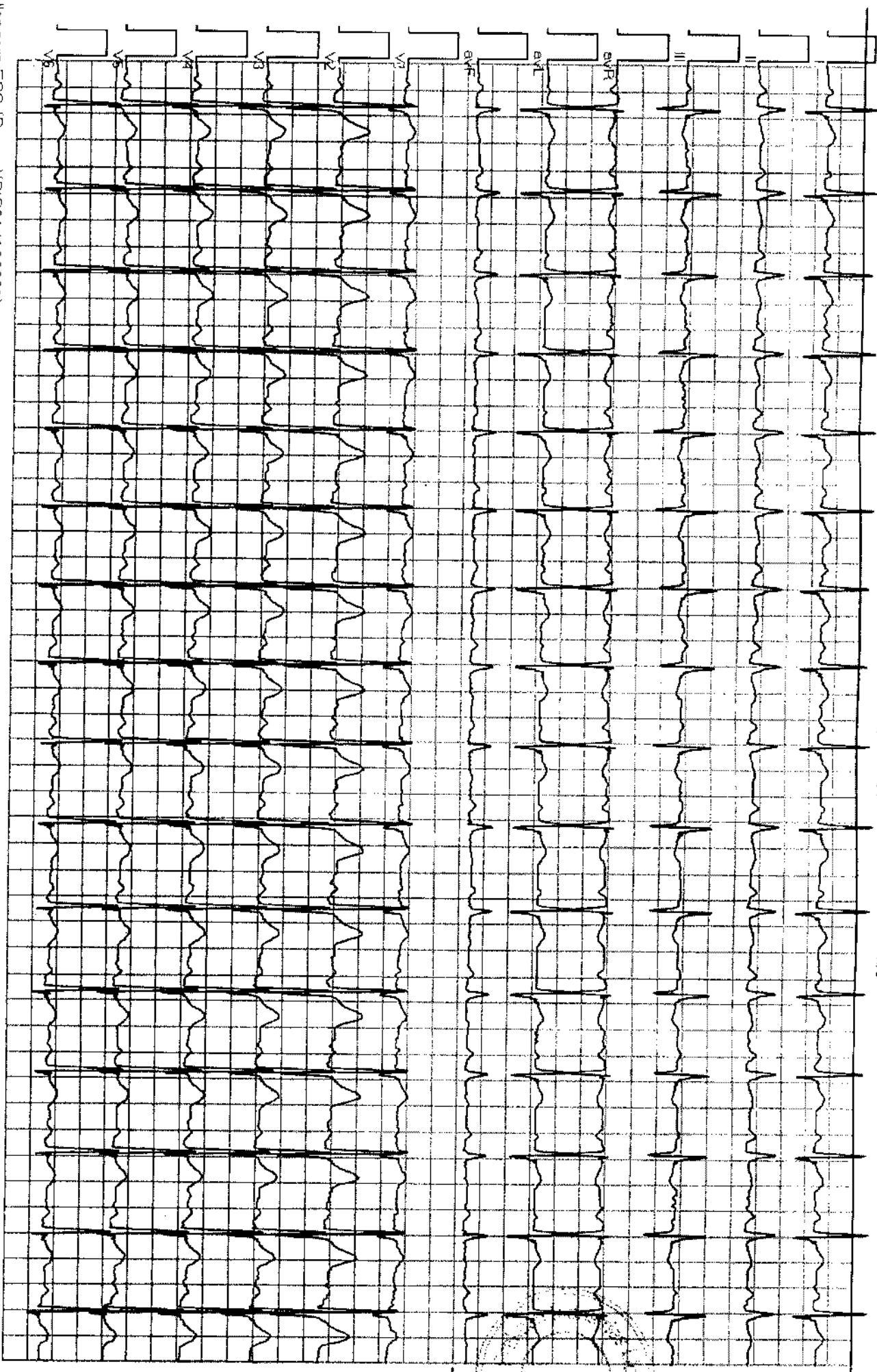
**Allengers Global Healthcare Pvt Ltd**

3023089 / RAKESH KUMAR YADAV / 35 Yrs / M / 173Cms / 85Kgs / Non Smoker

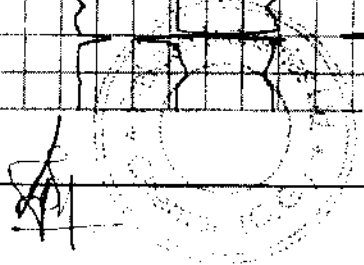
Heart Rate : 97 bpm / Tested On : 04-Jan-02 01:19:47 / HF 0.06 Hz - LF 100 Hz / Notch 50 Hz / Sn 1.00 cm/mV / Sw 25 mm/s

**ECG**

40ppm



Allengers ECG (Pisoes)(PIS214180621)



# Prakash Industries Limited Champa

## PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION REPORT - FORM 21

09-08-23

Dt. Pr. MED : 04-05-2022

Date of ~~17-05-2021~~

Date : .....  
 Employee's Name : 54760 ROSHAN KUMAR Age 29 Sex MALE  
 Code No. .... Division/Section SID R.M.P ENGINEER Intercom/Mob. 9131281791

**(1) GENERAL EXAMINATION :**

HEIGHT : 186 CM WEIGHT : 811 KG, BMI 24.3 kg/m<sup>2</sup>  
 CHEST : INSPIRATION 920 CM, EXPIRATION : 95 CM  
 BUILT - AVERAGE / STRONG / POOR - AVERAGE  
 THROAT Normal TONGUE clean TONSILS None  
 TEETH clean GUMS Slightly THYROID Normal  
 LYMPH NODES Normal  
 ADDITIONAL FINDINGS No

**(2) CARDIO-VASCULAR SYSTEM :**

PULSE : 78 b/min REGULAR / IRREGULAR PERIPHERAL PULSE - FELT / NOT FELT  
 B.P. 120/80 mm of Hg.  
 HEART SOUND : Rhythmic  
 MURMUR IF ANY : No  
 ADDITIONAL FINDING (S), IF ANY - No

**(3) RESPIRATORY SYSTEM :**

SHAPE OF CHEST : Semi-circular  
 CHEST MOVEMENT : Active  
 TRACHEA : Normal  
 BREATH SOUNDS : clear

**(4) GASTRO-INTESTINAL SYSTEM :**

LIVER : Normal SPLEEN : Normal  
 ANY ABDOMINAL LUMPS : No

**(5) EXAMINATION OF EYES :**

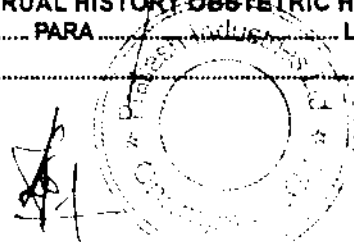
EXTERNAL EXAM. : Normal SQUINT : Absent  
 NYSTAGMUS : NO  
 COLOUR VISION - NORMAL / DEFECTIVE FUNDUS (L) (R)  
 INDIVIDUAL COLOUR IDENTIFICATION : NORMAL / DEFECTIVE  
 DISTANT VISION (WITHOUT GLASSES)  
 RIGHT : 6/6 LEFT : 6/6  
 DISTANT VISION (WITH GLASSES)  
 RIGHT : ..... LEFT : .....  
 NEAR VISION (WITHOUT GLASSES)  
 RIGHT : N/A LEFT : 1/6  
 NEAR VISION (WITH GLASSES)  
 RIGHT : ..... LEFT : .....  
 NIGHT BLINDNESS (NYCTALOPIA) : No

**(6) EXAMINATION OF EAR, NOSE & THROAT :**

EXTERNAL EXAM : Normal

**(7) GENITO URINARY SYSTEM :**

HERNIA : No HYDROCELE / VARICOCELE : No  
 CRYPTORCHIDISM : No PHIMOSIS : No VARICOS VEINS : No SIGNS OF STD  
 OTHER EXAMINATION FOR FEMALE : MENSTRUAL HISTORY OBSTETRIC HISTROY MENARCHE AT  
 ..... YRS GRAVIDA ..... PARA ..... LMP .....  
 MENSTRUAL IRREGULARITY, IF ANY



**INVESTIGATIONS**

**(8) LAB INVESTIGATIONS :**

URINE: ALBUMIN Nil SUGAR Nil  
 MICROSCOPY RYS 6-3 HPE STOOL .....  
 HAEMOGRAM WBC 2-3 HPE  
 BLOOD GROUP: ..... RH FACTOR: ..... HB 13.5 g/dl TLC 5.6 x 10<sup>9</sup> RBC 4.9 x 10<sup>12</sup>  
 Platelets Count: 196 x 10<sup>9</sup> DLC% Neu: 53 Lym: 38.9 Esi: 2.5 Mon: 3.2 Bas: 0.1

**LIPID PROFILE**

Serum cholesterol: 223 mg/dl S/Triglycerides: 166 mg/dl  
 HDL: 52 mg/dl LDL: 119 mg/dl

**HEPATIC PROFILE**

SGPT: 36 U/L SGOT: 25 U/L  
 Alkaline Phosphatase: 117 U/L

**RENAL PROFILE**

Blood Urea: 25 mg/dl S/Creatinine: 1.2 mg/dl

**METABOLIC**

Blood Sugar-F: 99 mg/dl Blood Sugar-PP: 116 mg/dl S/uricacid: 6.6 mg/dl

**(9) OTHER INVESTIGATIONS**

X-Ray Chest (In normal persons once in three years, X-ray 2023 Normal in case of any abnormality X-Ray can be done at shorter intervals).  
 ECG (In case of any abnormality further tests should be carried out) normal  
 Ultra Sound Whole abdomen (In normal persons once in three years in case of any abnormality can be done at shorter intervals) not done  
 Others: .....

**(10) PULMONARY FUNCTION TEST**

	FVC	FEV1	FVC/FEV1
Predicted	4.40	3.70	84.04
Measured	4.15	3.42	82.51
% of Prediction	94	92	98

Remarks: normal

**(11) Audiometry examination - (PTA of both ears at frequency of 125, 250, 500, 1000, 2000, 4000, 8000**

Cycles per second) 

RT:	18.37	DB	LT:	17.14	DB
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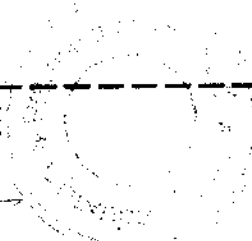
Remarks: normal

**(12) Medical examination of canteen staff**

- a- Blood examination for venereal disease and routine blood examination .....
- b- Stool and urine examination for worm infection .....
- c- Screening of skin disease (scabies and others) .....
- d- X-ray and other tests for T.B. ....

**(13) Details of Other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. factories rules 1962 -**

Signature (with date) of  
 Factory Medical Officer

Nidhi  


**FVC TEST**

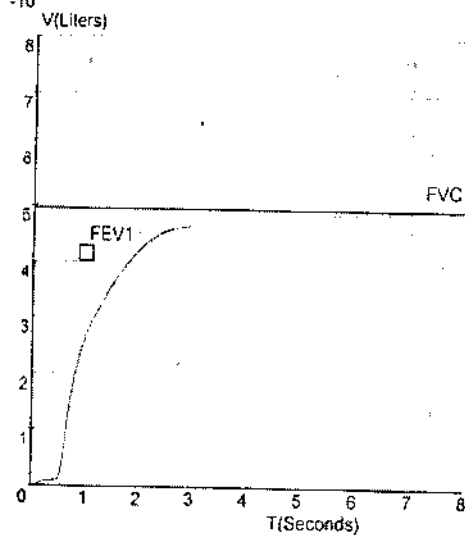
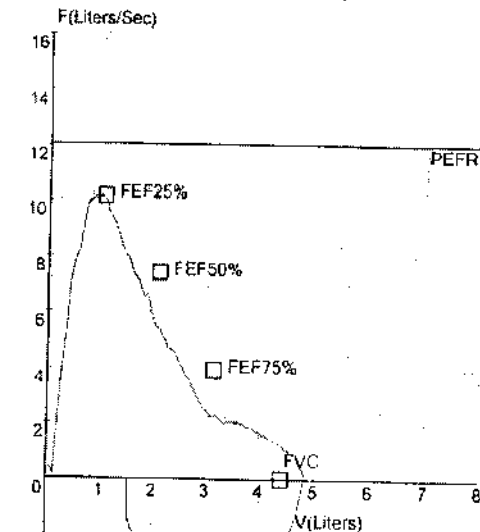
Date: 09-08-2023 (T1)

Pred Eqn : CLARITY

Eth.Corr : 100

Temp : 0°C

Ref By : NONE



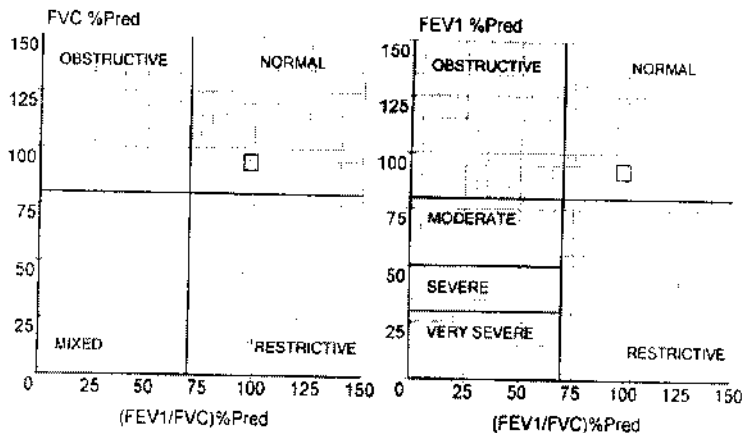
Parameter	Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L] 4.40	4.15	94	--	--	--
FEV1	[L] 3.70	3.42	92	--	--	--
FEV.5	[L] --	2.57	--	--	--	--
FEV3	[L] 4.27	--	--	--	--	--
FEV6	[L] --	--	--	--	--	--
PEFR	[L/s] 10.37	8.74	84	--	--	--
FEF25-75	[L/s] 4.74	4.16	88	--	--	--
FEF75-85	[L/s] --	1.55	--	--	--	--
FEF.2-1.2	[L/s] 8.45	7.26	86	--	--	--
FEF25%	[L/s] 8.66	8.76	101	--	--	--
FEF50%	[L/s] 6.37	4.54	71	--	--	--
FEF75%	[L/s] 3.40	1.90	56	--	--	--
FEV.5/FVC	[%] --	62.09	--	--	--	--
FEV1/FVC	[%] 84.04	82.51	98	--	--	--
FEV3/FVC	[%] 97.00	--	--	--	--	--
FEV6/FVC	[%] --	--	--	--	--	--
FEV1/FEV6	[%] --	--	--	--	--	--
FET	[S] --	2.28	--	--	--	--
ExpTime	[S] --	0.57	--	--	--	--
LungAge	[Y] 29.00	31.00	107	--	--	--
FIVC	[L] --	2.82	--	--	--	--
PIFR	[L/s] --	3.12	--	--	--	--
FIF25%	[L/s] --	9.72	--	--	--	--
FIF50%	[L/s] --	7.83	--	--	--	--
FIF75%	[L/s] --	4.76	--	--	--	--
FIV.5	[L] --	0.22	--	--	--	--
FIV1	[L] --	1.65	--	--	--	--
FIV3	[L] --	--	--	--	--	--
FIV.5/FIVC	[%] --	7.97	--	--	--	--
FIV1/FIVC	[%] --	58.43	--	--	--	--
FIV3/FIVC	[%] --	--	--	--	--	--

- Pre Medication Report :

Spirometry within Normal range as FVC% >= 80 And FEV1/FVC% > 70

- Pre COPD Severity Report:

Pre Test within Normal range



- Doctor's Comments :

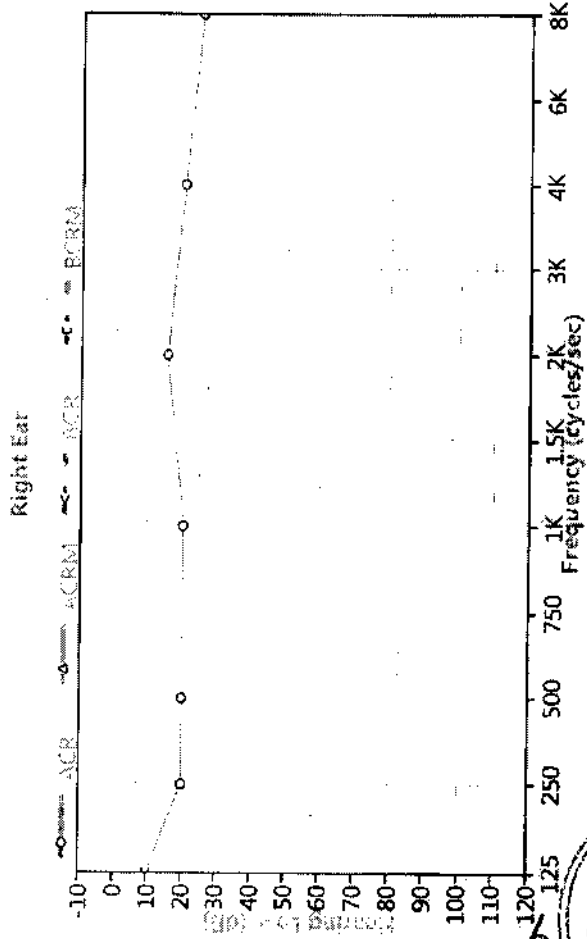
*[Handwritten Signature]*



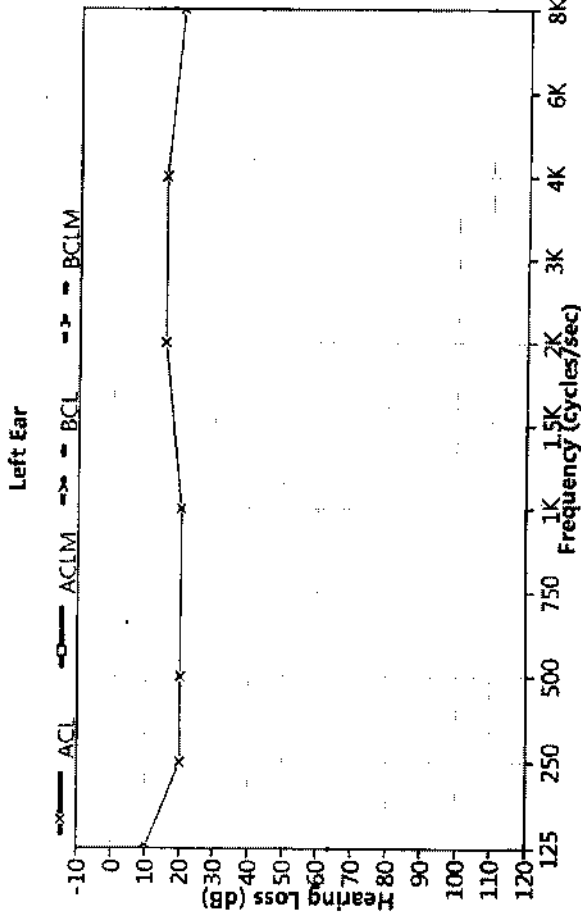
**PRAKASH INDUSTRIES LIMITED  
JANJGIR-CHAMPA, CHHATTISGARH**

Patient Name : 23024760/ROSHAN KUMAR  
Ref No : 15518  
Test Date : 08/09/2023  
Operator Comments

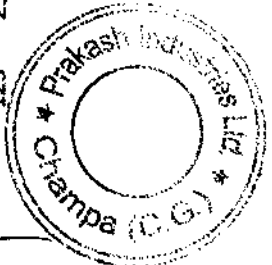
Doctor Comments



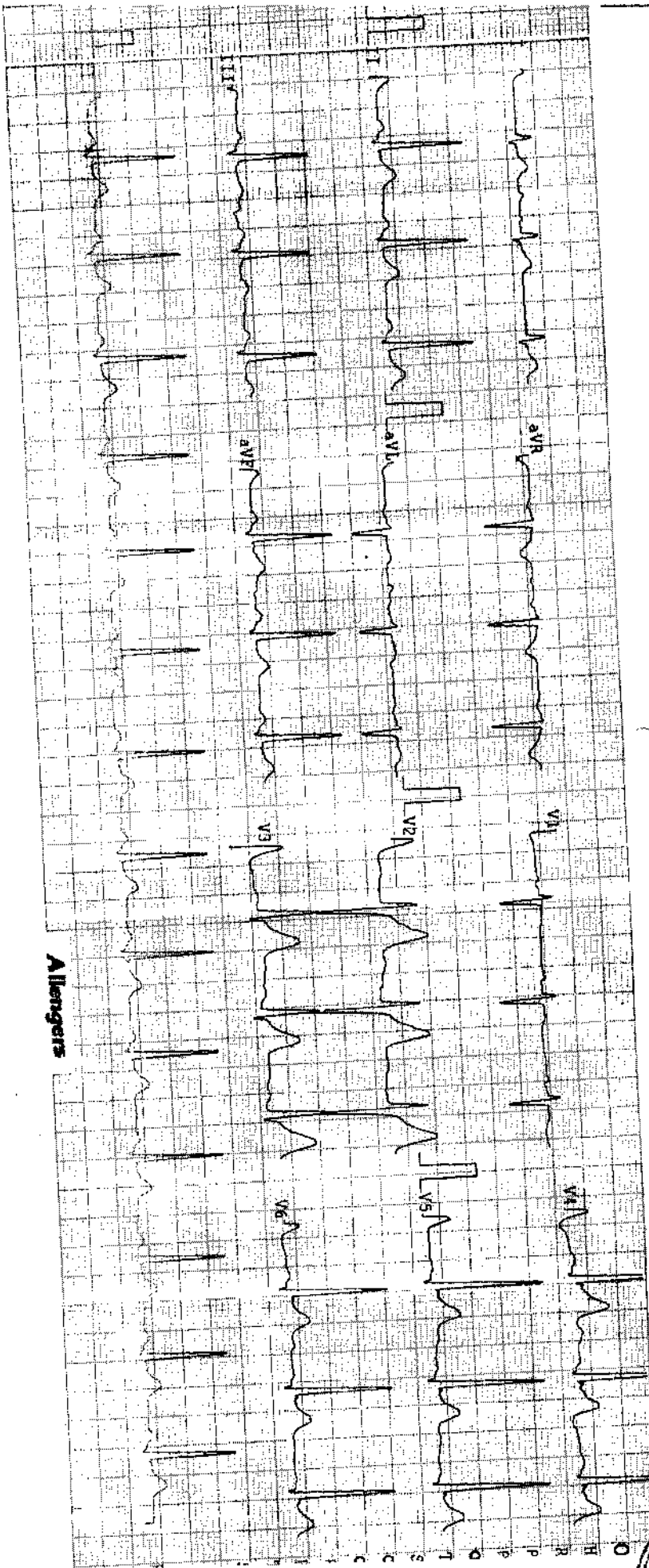
(RP) 18.57 dB



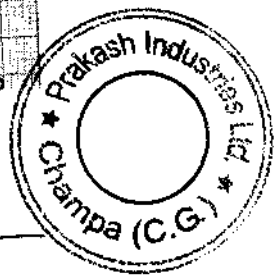
(L) 17.14 dB



Arphi 2001 Diagnostic Audiometer  
Manufacturers of Quality Hearing Aids and Diagnostic Equipments



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# Prakash Industries Limited Champa

## PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION REPORT - FORM 21

Date: 13-05-2023 Dt. Prv. MED: 26-02-22 Dt. Prev. Work: 16-04-2011  
 Employee's Name: VED RAM NISHAD Age: 34 Sex: M  
 Code No. W1951 Division: PP & U. Section: X 25 MW-OPRN. OPERATOR Intercom/Mob. 8889691618

**(1) GENERAL EXAMINATION :**

HEIGHT: 160 CM, WEIGHT: 64 KG, BMI: 25 kg/m<sup>2</sup>  
 CHEST: INSPIRATION: CM, EXPIRATION: CM  
 BUILT - AVERAGE / STRONG / POOR - AVERAGE  
 THROAT: Normal, TONGUE: clean, TONSILS: No  
 TEETH: clean, GUMS: Strong, THYROID: Normal  
 LYMPH NODES: Normal  
 ADDITIONAL FINDINGS: No

**(2) CARDIO-VASCULAR SYSTEM :**

PULSE: 78 bpm. REGULAR / IRREGULAR PERIPHERAL PULSE - FELT / NOT FELT  
 B.P. 110/70 mm of Hg.  
 HEART SOUND: Rhythmic  
 MURMUR IF ANY:  
 ADDITIONAL FINDING(S), IF ANY: No

**(3) RESPIRATORY SYSTEM :**

SHAPE OF CHEST: Semi cecidical  
 CHEST MOVEMENT: Active  
 TRACHEA: Normal  
 BREATH SOUNDS: Clear

**(4) GASTRO-INTESTINAL SYSTEM :**

LIVER: No SPLEEN: No  
 ANY ABDOMINAL LUMPS: No

**(5) EXAMINATION OF EYES :**

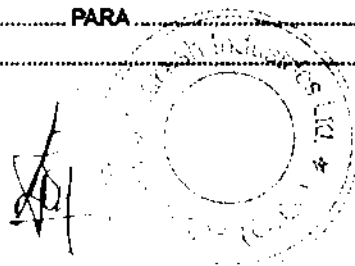
EXTERNAL EXAM: Normal SQUINT: Absent  
 NYSTAGMUS: NO  
 COLOUR VISION - NORMAL / DEFECTIVE FUNDUS (L) (R)  
 INDIVIDUAL COLOUR IDENTIFICATION: NORMAL / DEFECTIVE  
 DISTANT VISION (WITHOUT GLASSES)  
 RIGHT: 6/12 LEFT: 6/12  
 DISTANT VISION (WITH GLASSES)  
 RIGHT: 6/6 LEFT: 6/6  
 NEAR VISION (WITHOUT GLASSES)  
 RIGHT: 24/6 LEFT: 24/6  
 NEAR VISION (WITH GLASSES)  
 RIGHT: LEFT:  
 NIGHT BLINDNESS (NYCTALOPIA): No

**(6) EXAMINATION OF EAR, NOSE & THROAT :**

EXTERNAL EXAM: Normal

**(7) GENITO URINARY SYSTEM :**

HERNIA: No HYDROCELE / VARICOCELE: No  
 CRYPTORCHIDISM: No PHIMOSIS: No VARICOS VEINS: No SIGNS OF STD  
 OTHER EXAMINATION FOR FEMALE : MENSTRUAL HISTORY OBSTETRIC HISTROY MENARCHE AT  
 YRS GRAVIDA PARA LMP  
 MENSTRUAL IRREGULARITY, IF ANY



**INVESTIGATIONS**

**(8) LAB INVESTIGATIONS :**

URINE ALBUMIN Nil SUGAR Nil  
 MICROSCOPY Normal STOCL Nil  
 HAEMOGRAM Normal 3.4  
 BLOOD GROUP: 9/C RH FACTOR: + HB 13.2 g/dl TLC 7.1 x 10<sup>9</sup> RBC 5.72 x 10<sup>12</sup>  
 Platelets Count: 279 x 10<sup>9</sup> DLC % Neu: 67.5 Lym: 23.5 Esi: 13 Mon: 5.5 Bas: 2  
**LIPID PROFILE**  
 Serum cholesterol 150 mg/dl Si triglycerides 121 mg/dl  
 HDL 36 mg/dl LDL 70 mg/dl  
**HEPATIC PROFILE**  
 SGPT: 26 U/L SGOT: 36 U/L  
 Alkaline Phosphatase: 57 U/L  
**RENAL PROFILE**  
 Blood Urea: 21 mg/dl Si Creatinine: 1.3 mg/dl  
**METABOLIC**  
 Blood Sugar-F: 24 mg/dl Blood Sugar-PP: 123 mg/dl S/uricacid: U=3 mg/dl

**(9) OTHER INVESTIGATIONS**

X-Ray Chest (in normal persons once in three years, 2023 done in case of any abnormality X-Ray can be done at shorter intervals).  
 ECG (In case of any abnormality further tests should be carried out).....  
 Ultra Sound Whole abdomen (In normal persons once in three years in case of any abnormality can be done at shorter intervals).....  
 Others: .....

**(10) PULMONARY FUNCTION TEST**

	FVC	FEV1	FVC/FEV1
Predicted	3.03	2.56	84.25
Measured	3.18	3.12	98.03
% of Prediction	105	122	116

Remarks: .....

**(11) Audiometry examination - (PTA of both ears at frequency of 125, 250, 500, 1000, 2000, 4000, 8000**

Cycles per second) RT: 18.5 dB DB LT: 20 DB

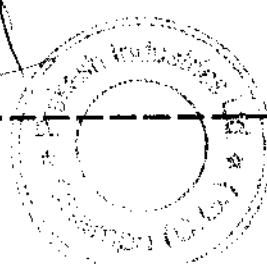
Remarks: .....

**(12) Medical examination of canteen staff**

- a- Blood examination for venereal disease and routine blood examination .....
- b- Stool and urine examination for worm infection .....
- c- Screening of skin disease (scabies and others) .....
- d- X-ray and other tests for T.B. ....

**(13) Details of Other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. factories rules 1962 -**

Signature (with date) of  
 Factory Medical Officer

S. Azam  
  
Wahid

**FVC TEST**

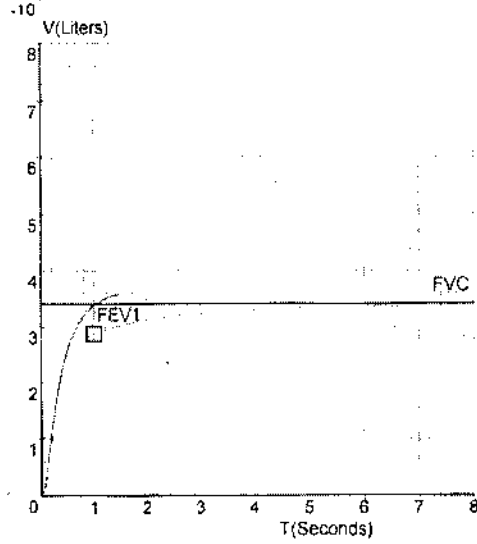
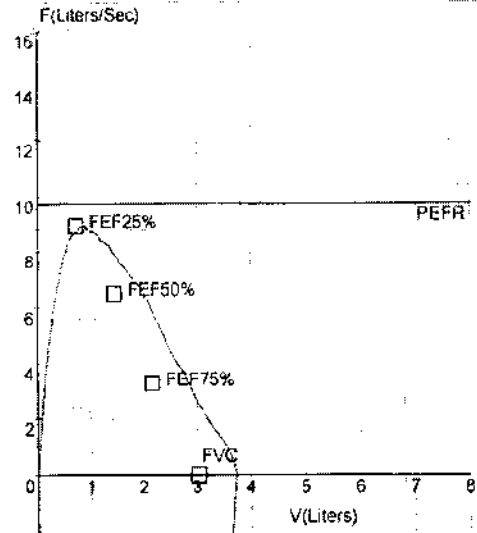
Date: 13-05-2023 (T1)

Pred Eqn : CLARITY

Eth.Corr: 100

Temp : 0°C

Ref By : NONE



Parameter	Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L] 3.03	3.18	105	--	--	--
FEV1	[L] 2.56	3.12	122	--	--	--
FEV.5	[L] --	2.60	--	--	--	--
FEV3	[L] 2.94	--	--	--	--	--
FEV6	[L] --	--	--	--	--	--
PEFR	[L/s] 8.35	7.65	92	--	--	--
FEF25-75	[L/s] 4.02	5.71	142	--	--	--
FEF75-85	[L/s] --	2.47	--	--	--	--
FEF.2-1.2	[L/s] 6.79	6.76	100	--	--	--
FEF25%	[L/s] 7.65	8.75	114	--	--	--
FEF50%	[L/s] 5.54	6.77	122	--	--	--
FEF75%	[L/s] 2.83	3.22	114	--	--	--
FEV.5/FVC	[%] --	81.69	--	--	--	--
FEV1/FVC	[%] 84.25	98.03	116	--	--	--
FEV3/FVC	[%] 97.00	--	--	--	--	--
FEV6/FVC	[%] --	--	--	--	--	--
FEV1/FEV6	[%] --	--	--	--	--	--
FET	[S] --	1.18	--	--	--	--
ExpiTime	[S] --	0.13	--	--	--	--
LungAge	[Y] 34.00	27.00	79	--	--	--
FIVC	[L] --	3.29	--	--	--	--
PIFR	[L/s] --	6.03	--	--	--	--
FIF25%	[L/s] --	8.78	--	--	--	--
FIF50%	[L/s] --	6.76	--	--	--	--
FIF75%	[L/s] --	3.69	--	--	--	--
FIV.5	[L] --	0.02	--	--	--	--
FIV1	[L] --	0.49	--	--	--	--
FIV3	[L] --	--	--	--	--	--
FIV.5/FIVC	[%] --	0.48	--	--	--	--
FIV1/FIVC	[%] --	14.85	--	--	--	--
FIV3/FIVC	[%] --	--	--	--	--	--

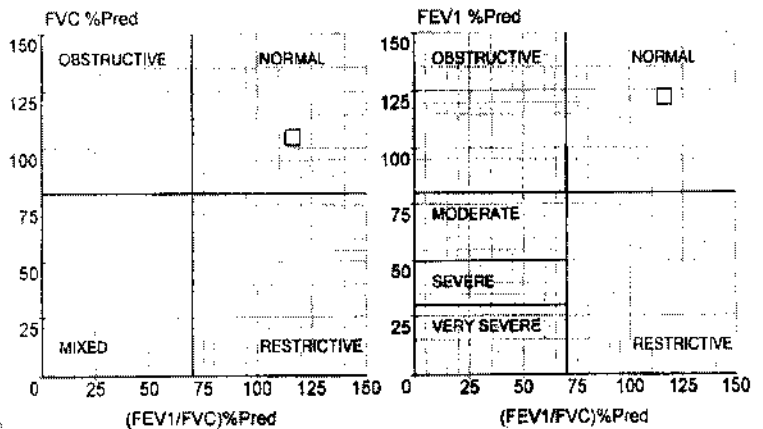
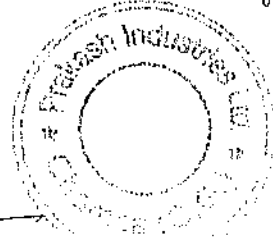
- Pre Medication Report :

Spirometry within Normal range as FVC% >= 80 And FEV1/FVC% > 70

- Pre COPD Severity Report:

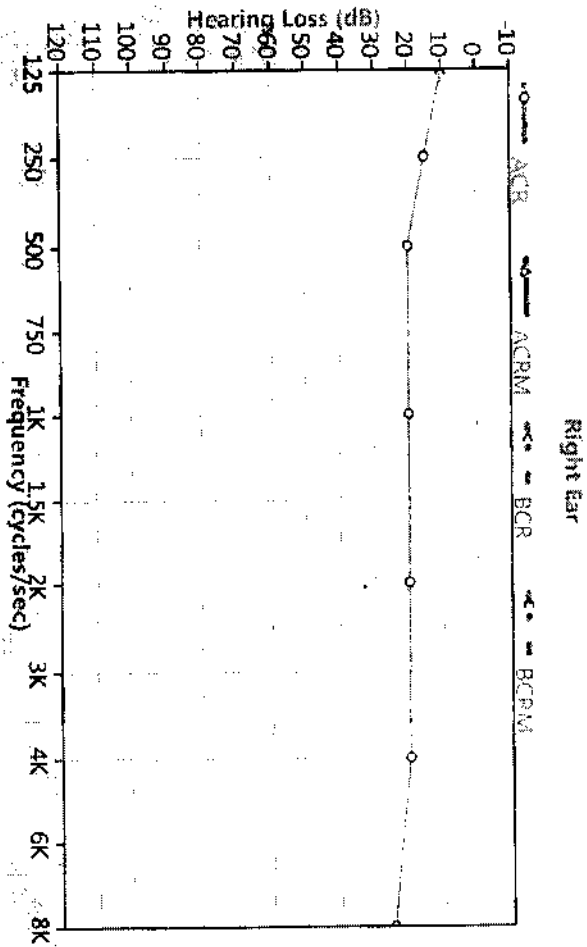
Pre Test within Normal range

- Doctor's Comments :

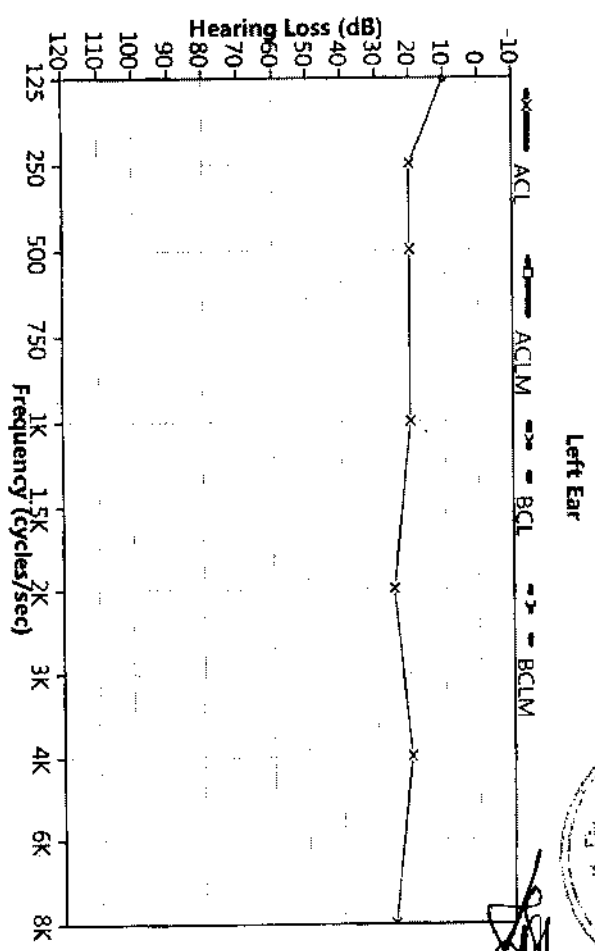


**PRAKASH INDUSTRIES LIMITED**  
**JANJIR-CHAMPA, CHHATTISGARH**

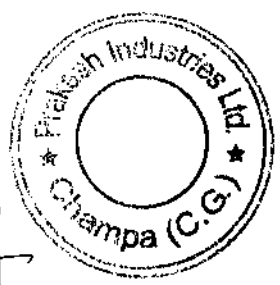
Patient Name : 23011951/MED RAM NISHAD  
 Ref No : 14550  
 Test Date : 05/13/2023  
 Operator Comments  
 Doctor Comments



RT 18.571 CLB



LT 20 CLB



*[Handwritten signature]*

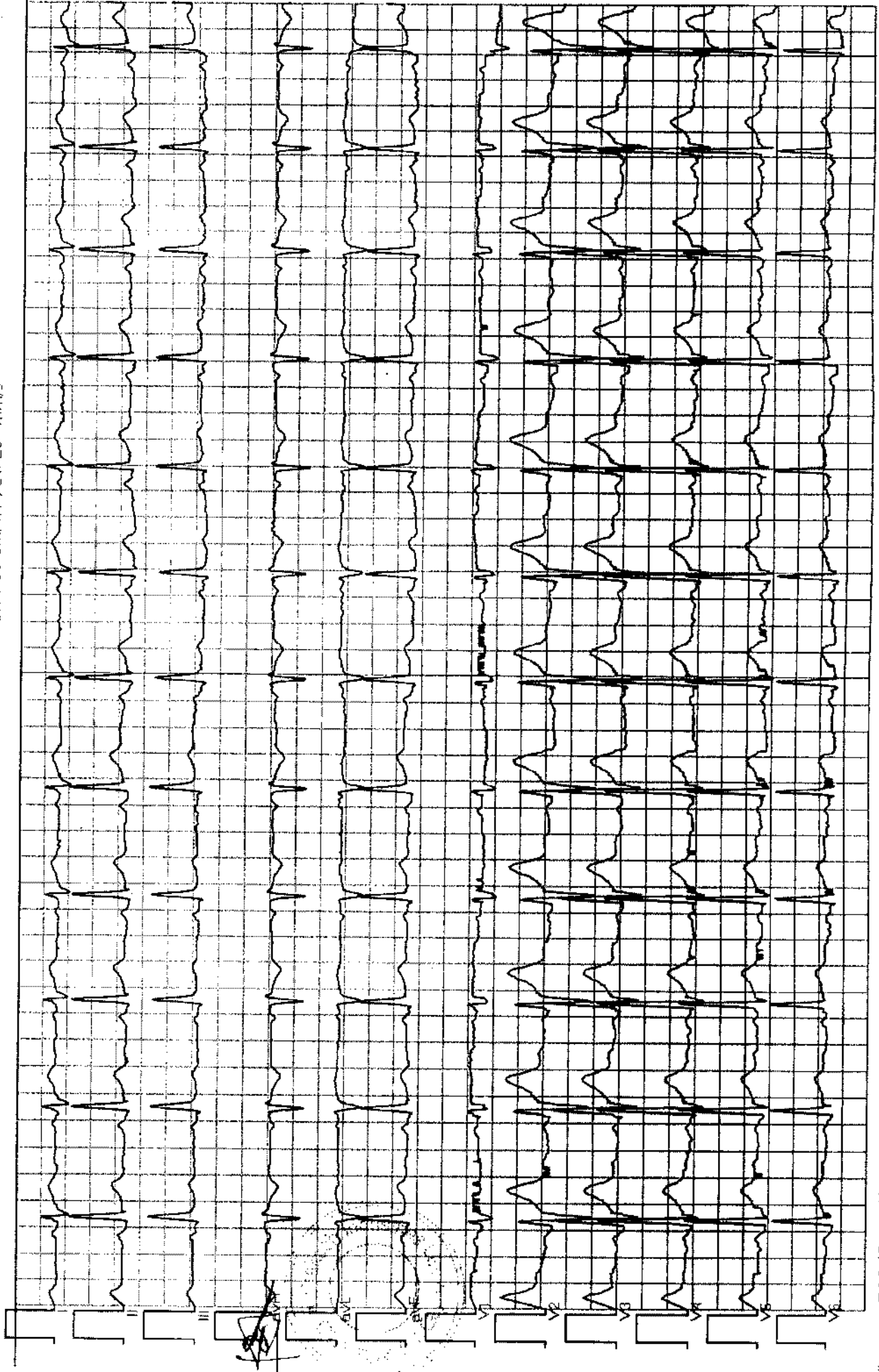
Allegers Global Healthcare Pvt Ltd.,

3011951 / VED RAM NISHAD / 34 Yrs / M / 160Cms. / 64Kgs / Non Smoker

Heart Rate: 73 bpm / Tested On: 18-May-23 11:18:02 / HF: 0.05 Hz - LF: 100 Hz / Notch: 50 Hz / SRI: 1.00 Cm/mV / Sw: 25 mm/s

ECG

ACAPL



Ray) 5/10

# Prakash Industries Limited Champa

## PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION REPORT

Date: 27-04-2023 Dt. Prv. MED: 25-04-22 Dt. Prev. Work: 25-04-2022  
 Employee's Name: ARVIND KUMAR SURYAVANSHI Age: 24 Sex: M  
 Code No: W2566 Division/Section: PP & U E&I TRAINEE ELECTRICIAN Intercom/Mob: 7869731026

### (1) GENERAL EXAMINATION :

HEIGHT: 165 CM, WEIGHT: 60 KG, BMI: 22 kg/m<sup>2</sup>  
 CHEST: INSPIRATION ..... CM, EXPIRATION: ..... CM,  
 BUILT - AVERAGE / STRONG / POOR  
 THROAT: Normal, TONGUE: clean, TONSILS: Not large  
 TEETH: clean, GUMS: Strong, THYROID: NAO  
 LYMPH NODES .....  
 ADDITIONAL FINDINGS: into

### (2) CARDIO-VASCULAR SYSTEM :

PULSE: 78 b. / MIN. REGULAR / IRREGULAR PERIPHERAL PULSE - FELT / NOT FELT  
 B.P. 110/70 mm of Hg.  
 HEART SOUND: Rhythmic  
 MURMUR IF ANY: No  
 ADDITIONAL FINDING (S), IF ANY -

### (3) RESPIRATORY SYSTEM :

SHAPE OF CHEST: Semi Cardial  
 CHEST MOVEMENTS: Active  
 TRACHEA: Normal  
 BREATH SOUNDS: Clear

### (4) GASTRO-INTESTINAL SYSTEM :

LIVER: NAO SPLEEN: NAO  
 ANY ABDOMINAL LUMPS: NAO

### (5) EXAMINATION OF EYES :

EXTERNAL EXAM: Normal SQUINT: No  
 NYSTAGMUS: NAO  
 COLOUR VISION - NORMAL / DEFECTIVE FUNDUS (L) (R)  
 INDIVIDUAL COLOUR IDENTIFICATION - NORMAL / DEFECTIVE DISTANT VISION  
 (WITHOUT GLASSES)  
 RIGHT: 6/6 LEFT: 6/6  
 (WITH GLASSES) RIGHT ..... LEFT .....  
 NEAR VISION (WITHOUT GLASSES)  
 RIGHT: 1/6 LEFT: 1/6  
 (WITH GLASSES) RIGHT ..... LEFT .....  
 NIGHT BLINDNESS: (NYCTALOPIA): No

### (6) EXAMINATION OF EAR, NOSE & THROAT :

EXTERNAL EXAM: Normal

### (7) GENITO URINARY SYSTEM :

HERNIA: No HYDROCELE / VARICOCELE: No  
 CRYPTORCHIDISM: No PHIMOSIS: No VARICOSE VEINS: No SIGNS OF STD  
 OTHER EXAMINATION FOR FEMALES : MENSTRUAL HISTORY-OBSTETRIC HISTORY MENARCHE

AT Yrs GRAVIDA ..... PARA ..... LMP .....

MENSTRUAL IRREGULARITY, IF ANY .....

**INVESTIGATIONS**

**(8) LAB INVESTIGATIONS :**

URINE : ALBUMIN ..... Nil ..... SUGAR ..... Nil .....

MICROSCOPY P. cell - 1-3 HPF ..... STOOL .....

HAEMOGRAM E cell - 1-2 HPF

Blood Group : ..... Rh factor : ..... Hb 13.8 g/dl TLC 8.1 x 10<sup>9</sup>/L RBC 4.64 x 10<sup>12</sup>/L

DLC - PLMB Platelets Count : 291 x 10<sup>9</sup>/L N - 47.6% L - 36.8% E - 10.5% M - 5.0% B - 0.1%

**LIPID PROFILE**

Serum cholesterol : 142 mg/dl S/Triglycerides 150 mg/dl

HDL 36 mg/dl LDL 75 mg/dl

**HEPATIC PROFILE**

SGPT : 12 U/L SGOT : 36 U/L

Alkaline Phosphatase : 26 U/L

**RENAL PROFILE**

Blood Urea : 21 mg/dl S/Creatinine : 1.2 mg/dl

**METABOLIC**

Blood Sugar-F : 74 mg/dl Blood Sugar-PP : 147 mg/dl S/uricacid : 5.3 mg/dl

**(9) OTHER INVESTIGATIONS**

X-Ray Chest (In normal persons once in three years, ..... In case of any abnormality X-Ray can be done at shorter intervals).

ECG (In case of any abnormality further tests should be carried out) .....

Ultra Sound Whole abdomen (In normal persons once in three years in case of any abnormality can be done at shorter intervals) .....

Others : .....

**(10) PULMONARY FUNCTION TEST**

FVC FEV 1 FEV 1 / FVC

Predicted 3.42 3.52 103

Measured 2.97 3.14 106

% of Predicted 86.82 89.05 103

Remarks : .....

**(11) Audiometry examination - (PTA of both ears at frequency of 125, 250, 500, 1000, 2000, 4000, 8000 Cycles per second) .....**

**(12) Medical examination of canteen staff**

a- Blood examination for venereal disease and routine blood examination .....

b- Stool and urine examination for worm infection .....

c- Screening for skin diseases (scabies and others) .....

d- X-ray and other tests for T.B. ....

**(13) Details of Other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. factories rules 1962 -**

Signature (with date) of  
Factory Medical Officer

S. Anand

अरविंद



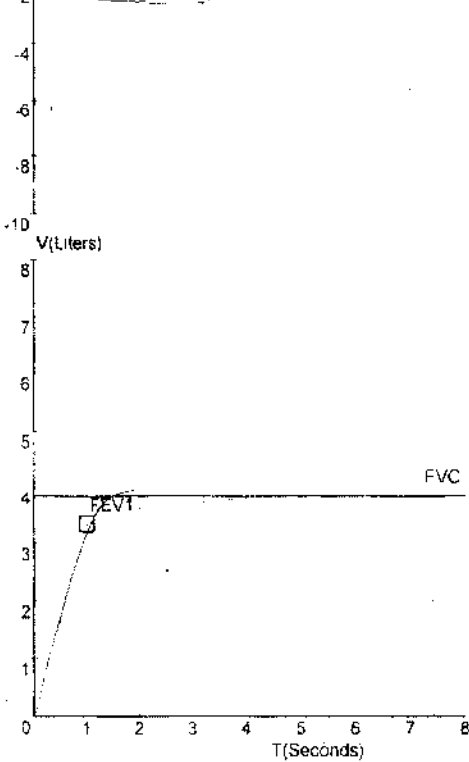
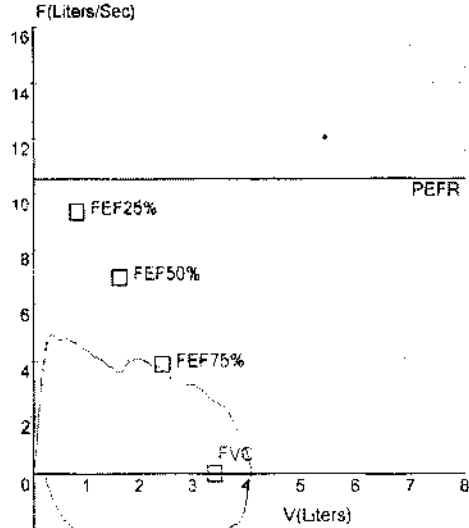
23012566 - ARVIND KUMAR SURYAVANSHI  
24 Years / Male / Ht 165 Cms /60 Kgs / Non-Smoker

**FVC TEST**

Date: 27-04-2023 (T1)

Pred Eqn : CLARITY Eth.Corr: 100 Temp: 0°C

Ref By : NONE

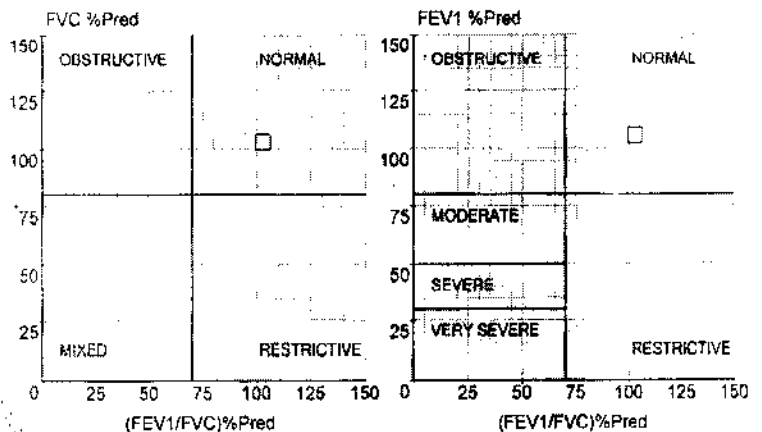


Parameter	Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L] 3.42	3.52	103	--	--	--
FEV1	[L] 2.97	3.14	106	--	--	--
FEV.5	[L] --	1.85	--	--	--	--
FEV3	[L] 3.32	--	--	--	--	--
FEV6	[L] --	--	--	--	--	--
PEFR	[L/s] 9.06	4.24	47	--	--	--
FEF25-75	[L/s] 4.57	3.19	70	--	--	--
FEF75-85	[L/s] --	2.35	--	--	--	--
FEF.2-1.2	[L/s] 7.72	3.70	48	--	--	--
FEF25%	[L/s] 8.03	4.10	51	--	--	--
FEF50%	[L/s] 5.97	3.83	64	--	--	--
FEF75%	[L/s] 3.31	2.69	81	--	--	--
FEV.5/FVC	[%] --	52.60	--	--	--	--
FEV1/FVC	[%] 86.62	89.05	103	--	--	--
FEV3/FVC	[%] 97.00	--	--	--	--	--
FEV6/FVC	[%] --	--	--	--	--	--
FEV1/FEV6	[%] --	--	--	--	--	--
FET	[S] --	1.56	--	--	--	--
ExpTime	[S] --	0.09	--	--	--	--
LungAge	[Y] 24.00	23.00	96	--	--	--
FIVC	[L] --	3.31	--	--	--	--
PIFR	[L/s] --	2.26	--	--	--	--
FIF25%	[L/s] --	4.13	--	--	--	--
FIF50%	[L/s] --	3.71	--	--	--	--
FIF75%	[L/s] --	3.13	--	--	--	--
FIV.5	[L] --	0.26	--	--	--	--
FIV1	[L] --	1.26	--	--	--	--
FIV3	[L] --	--	--	--	--	--
FIV.5/FIVC	[%] --	7.69	--	--	--	--
FIV1/FIVC	[%] --	37.89	--	--	--	--
FIV3/FIVC	[%] --	--	--	--	--	--

- Pre Medication Report :  
Early Small Airway Obstruction. Spirometry within Normal range as FVC% >= 80 And FEV1/FVC% > 70

- Pre COPD Severity Report:  
Pre Test within Normal range

- Doctor's Comments :



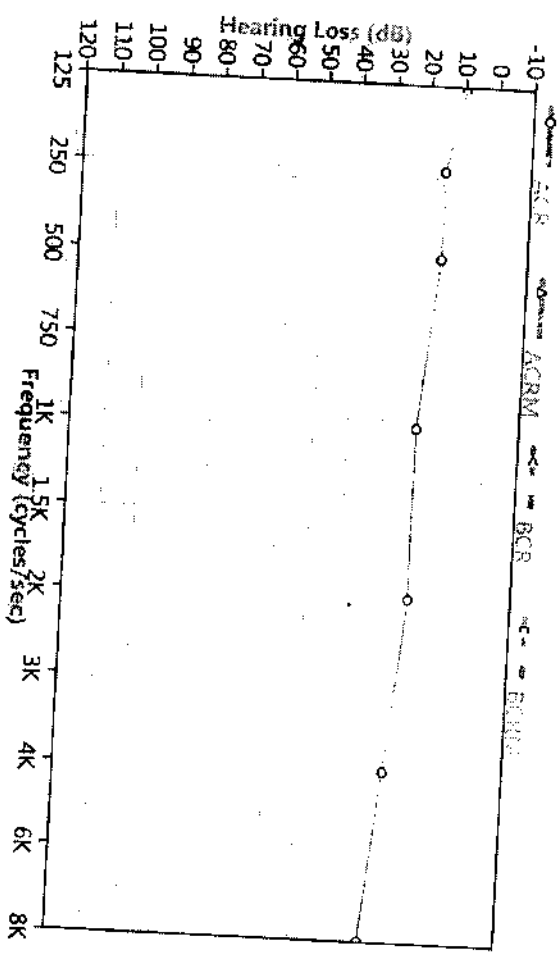


**PRAKASH INDUSTRIES LIMITED  
JANJIR-CHAMPA, CHHATTISGARH**

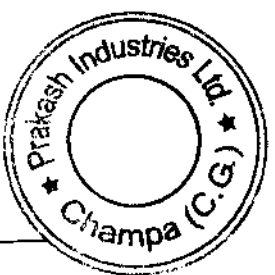
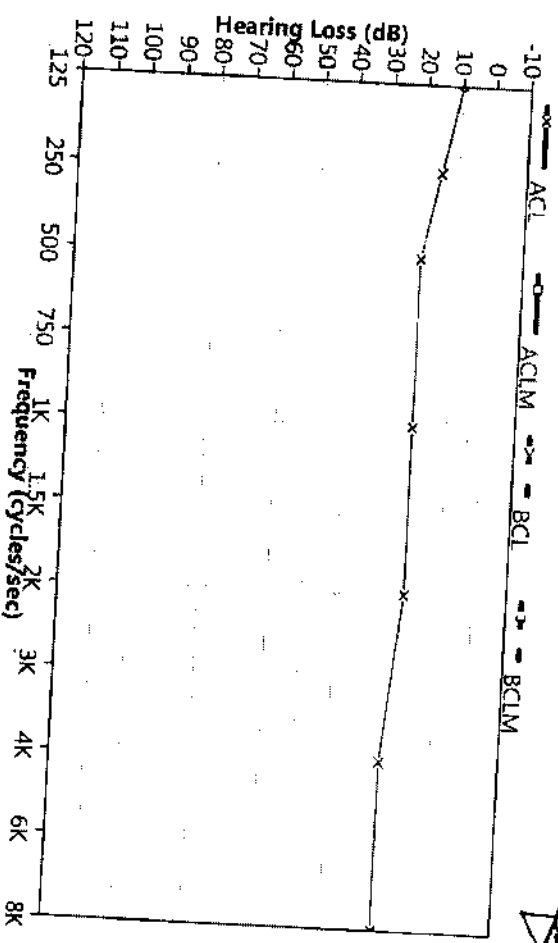
Patient Name : 23012566 arvind kumar  
 Ref No : 14057  
 Test Date : 04/27/2023  
 Operator Comments

Doctor Comments

**Right Ear**



**Left Ear**

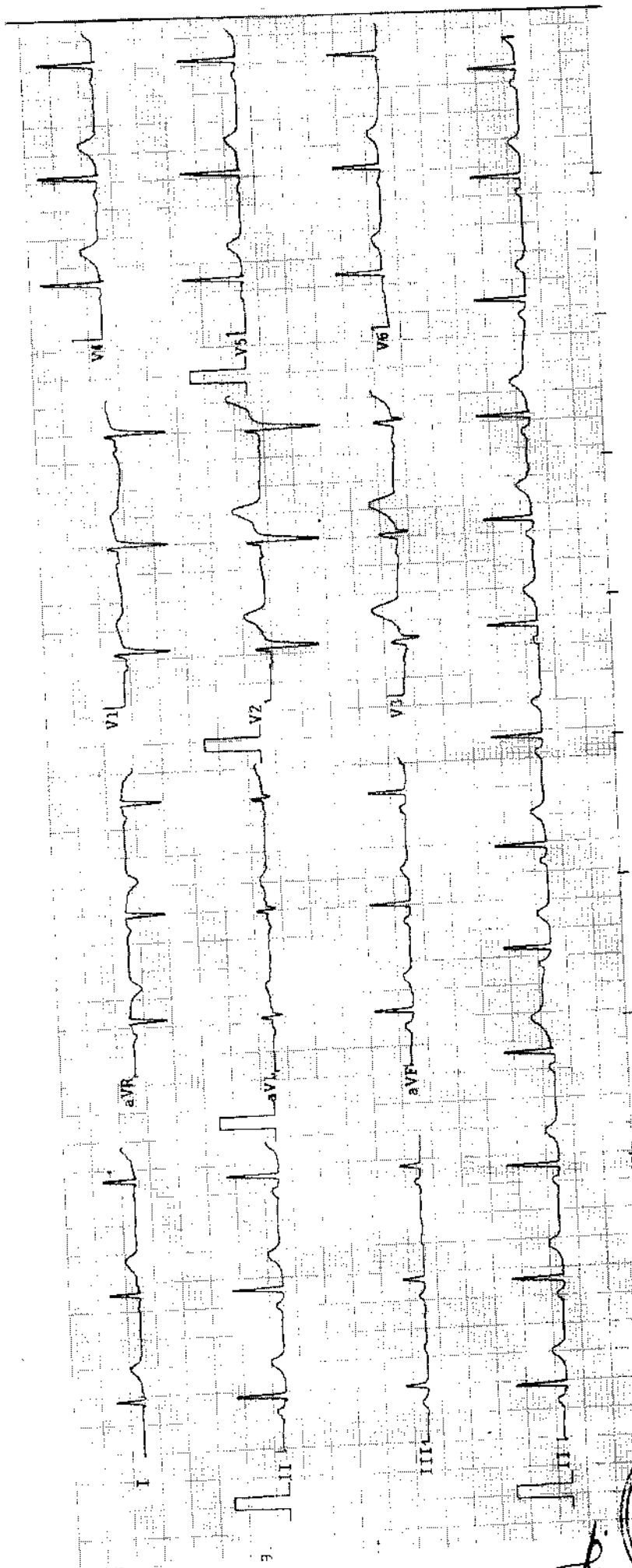


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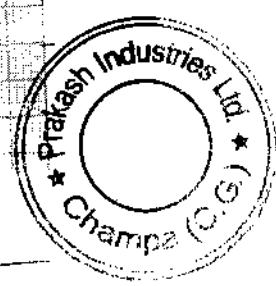
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Amphi 2001 Diagnostic Audiometer  
 Manufacturers of Quality Hearing Aids and Diagnostic Equipments

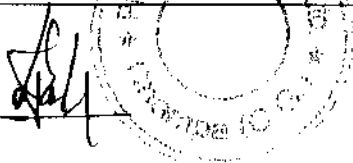


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**EXPENSES INCURRED FOR ENVIRONMENTAL MANAGEMENT**  
**(For the period of April 2023 to September 2023)**

Sl. No.	Details of Measures Taken	Allocated Budget Rs. (Lac)	Expenses in Rs. (Lac)
<b>A.</b>	<b>Water Pollution Control/Water Management.</b>		
	Maintenance of sewage treatment plant (STP), Implemented scheme for reuse of treated industrial effluent water (Effluent Treatment Plant) and maintenance of Online Effluent Quality Monitoring System, etc.	15.10	15.10
	<b>(A) Sub total Rs.</b>	<b>15.10</b>	<b>15.10</b>
<b>B.</b>	<b>Air Pollution Control/Air Management.</b>		
	Pollution control systems (Fume extraction System, ESP, Bag Filters, Water sprinkling System, retrofitting, maintenance and installation Work etc.) and Changing of torn out bags of Bag Filters. Maintenance and installation of Online Stack & Ambient Air Quality Monitoring System, etc.	176.96	176.96
	<b>(B) Sub total Rs.</b>	<b>176.96</b>	<b>176.96</b>
<b>C.</b>	<b>Solid/Hazardous Waste Management.</b>		
1	Disposal of Solid Wastes.	589.17	589.17
	<b>(C) Sub total Rs.</b>	<b>589.17</b>	<b>589.17</b>
<b>D.</b>	<b>Other Areas.</b>		
1	Environment Cell.	4.12	4.12
2	Plantation (New Plantation + Maintenance of Existing one).	37.46	37.46
3	Construction of Pucca Roads and drains.	27.54	27.54
4	Housekeeping work.	491.67	491.67
5	Road sweeping machine running and maintenance cost.	3.02	3.02
6	ISO 14001 and ISO 45001 implementation.	0.50	0.50
	<b>(D) Sub total Rs.</b>	<b>564.31</b>	<b>564.31</b>
	<b>GRAND TOTAL of (A+B+C+D) Rs.</b>	<b>1345.54</b>	<b>1345.54</b>



### **Salient features of the existing integrated Steel plant**

M/s Prakash Industries Ltd., has set up a state of the art technology integrated steel plant at Champa in the State of Chhattisgarh. The sponge iron Kilns installed at Champa are based on SL/RN technology of Lurgi, Germany, which is the only renowned technology in coal based Sponge Iron manufacturing. The Sponge Iron manufactured in the Kilns is being used in house in the Steel Melting Shop to produce high quality Billets and Blooms which are used to manufacture value added finished steel products like Wire Rod/TMT. Thus a fully integrated approach is adopted in the company.

At present, we are operating Sponge Iron Plant, West Heat Recovery Boiler (WHRB) for Co-generation of Power, Coal Based Captive Power Plant, Steel Melting Shop, Ferro alloy, Sinter Plant & Oxygen Plant.

The existing manufacturing facilities have been set up on 601.52 Acres land. River Hasdeo which fulfills the water requirement of the plant flows from North to South East of the area. The buffer zone is almost a flat terrain. Plant site is at an elevation of 255 mtr. from sea level.

The nearest town is Champa at a distance of 4.0 km & NH 200 is at a distance of 2.0 km from the plant site. The site is well developed and well connected with rail and road network. The nearest airport is at Raipur located at 180 km from the plant site.

There are no monuments of archaeological importance, Defense Installation, National Park, Wild Life Sanctuaries, Tiger Reserve/Elephant corridor, etc. within 10 km radius.

#### **(I) Sponge Iron**

To make its mark in the industry, PIL has ventured into activities that led the company to transform into a cohesive Steel and Power producing unit. For this, Prakash Industries Limited is using high quality Iron ore to produce Sponge Iron in the Sponge Iron Kilns for its internal consumption. Besides emphasis on supply of quality products, company has always looked forward to maximize the utilization of its resources. These are the measures that have helped the company to move at faster growth rate with significant reduction in the cost of production.

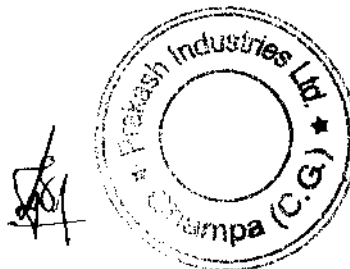
#### **(II) Power**

The company is operating captive power plant using Waste Heat Recovery Boilers and Fluidized Bed Boilers.

#### **(III) Steel Melting Shop:**

Company is producing high quality Steel Billets / Blooms in the Steel Melting Shop through Induction furnace route. The prime raw materials used are Sponge Iron, Pig Iron and MS scrap, out of which majority is the Sponge Iron being sourced from the Sponge Iron Kilns of the company. This not only ensures availability of quality sponge iron for the steel operations but also results in cost effective operations. Production of high quality Billets and Blooms through continuous casting methods.

- Value addition through captive consumption of raw materials and integrated operations.
- Continuous improvement in performance and quality with innovations in system and processes.

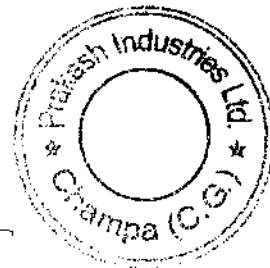


#### (IV) Ferro Alloys

As Ferro Alloys are the primary raw materials used for manufacturing steel. Company also forayed into the production of Ferro-Alloys to ensure supply of quality input to its steel operations. In this effort to draw the synergies of a comprehensive set of aligned products, company has set up manufacturing facilities for production of Ferro-Alloys in submerged Arc Furnaces. This not only meets the in-house requirement for steel operation but also generates additional revenues by selling the surplus quantities in the market. The entire power of requirement for the Submerged Arc Furnaces is met from the Captive Power plant of the company.

#### Details of Products & its capacities are as under :-

Sl. No.	Details of the unit	Approved Capacity	Installed Capacity
1	DRI ( Sponge Iron )	2.0 MTPA	1.2 MTPA
2	Co-Generation Power Plant (WHRB)	100 MW	75 MW
3	Coal based Power Plant	187.5 MW	162.5 MW
4	Steel Melting Shop (Billets / Blooms/ Ingots)	2.0 MTPA	1.25 MTPA
5	Ferroalloy Plant	9 x 7.5 MVA (115000 TPA)	9 x 7.5 MVA (115000 TPA)
6	Sinter plant	1.45 MTPA	0.1 MTPA
7	Oxygen plant	800 TPD	8 TPD



### Salient features of the Environment Management Plans

For administering the environment aspects, an Environment Management Cell (EMC) has been formed. The Cell is headed by senior executive and have 23 members in its team including an Environmental Manager. This team is responsible for all environment management activities including environmental monitoring, developing greenbelt, ensuring good housekeeping, ensuring statutory compliance. To evaluate the effectiveness of environmental management program, regular monitoring of the important environmental parameters are taken up. The schedule, duration and parameters are as per the consent conditions issued by the State Pollution Control Board for 100% compliances.

#### 1. Laboratory Facilities:

A well equipped laboratory has been set up for analyzing Air, Water, Effluents, Solid wastes, Raw materials and other process intermediates.

#### 2. Environmental Management Plan (EMP) -Monitoring Aspects

##### Air Environment -

- The Ambient Air Quality, Stack Emissions and Fugitive Emissions is monitored and analyzed for Particulate Matter, SO<sub>2</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub> & O<sub>3</sub> in a schedule manner as per directives of State Pollution Control Board and corrective measures is taken.
- Online AAQMS & Online Stack Monitoring facility are installed for continuous monitoring pollution.
- The efficiency of all pollution control devices like ESPs and bag filters has been checked and their operability is ensured on day to day basis.

##### Water Environment -

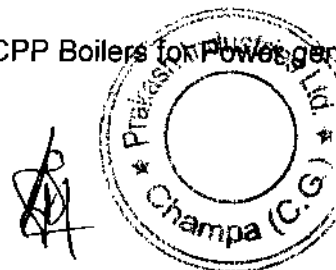
- Zero discharge of effluents is ensured.
- The drainage system is checked regularly and clogging, accumulation of sludge and sediments are being removed regularly.
- Performance of Oil & Grease traps, settling ponds, neutralization pits and ETPs are examined on day to day basis.
- Quality of Raw water, Drinking water and Waste water are monitored twice in a month.
- The Ground water monitoring is done every three months in locations around the Plant.

##### Noise Environment -

- The Noise levels inside the plant are monitored in noise prone areas both in day and night time.
- Noise Protective Appliance like Ear Muffs, Ear Plugs is issued to workmen in noise prone areas and it will be ensured that, they use the same.
- Performance of silencers provided at various vent points is periodically examined and corrective action taken.

##### Solid Waste –

- Quantity and Characteristics of Solid Wastes is regularly analyzed and their disposal is monitored.
- Fly ash is utilized in Fly Ash Brick manufacturing, Various concrete applications, Road making, Abandoned mine filling as per Fly Ash notification of MoEF dated 14<sup>th</sup> September 1999 and subsequent amendment.
- The char generated from Sponge Iron Plant is used in CPP Boilers for Power generation.



### 3. Environmental Audit:

Quarterly Environmental Audit is being carried out to check for compliance with standards. This is carried out by in-house experts. Third Party Environmental Audits is carried out once in every year.

The directives from the Statutory Authorities and prevailing regulations are govern the periodicity of monitoring.

The action plan of EMP is updated every year with respect to the results achieved and to plan activities for the next year.

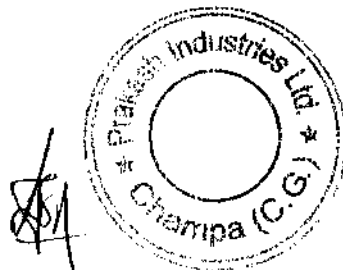
### 4. Green Belt:

From 1991 to December 2009 we had planted approx.1,86,640 saplings and from January 2010 to September 2023 approx. 1,40,000 saplings. Thus, the total number of saplings which we have planted and survived are approx. 3.26 Lacs. During the monsoon of 2023, we have planted approx 10,000 species in the area available in campus.

Year	Number of Trees	Cumulative (Approx.)
Upto December 2009		186640
2010	10000	196640
2011	10000	206640
2012	10000	216640
2013	10000	226640
2014	10000	236640
2015	10000	246640
2016	10000	256640
2017	10000	266640
2018	10000	276640
2019	10000	286640
2020	10000	296640
2021	10000	306640
2022	10000	316640
2023	10000	326640

#### Details of the species planted in the Premises

Neem, Guava, Bakool, Sisso, Gulmohar, Bogan Velia ,Ashoka, Kachanar, Australian Babool, Ber, Mango, Karanj, Sagun, Arjun, Subabool, Siras, Khamar, Peltaforam, Bakayan, Nilgiri, Kaner, Imali, Jetropha, Bans, Paras, Pipal, Amla, Jamun, etc. This monsoon i.e 2022 we have also taken up Plantation of 10000 species in Plant Premises.



## 5. Training of Man Power:

Training is imparted for safe operation and maintenance of the Plant. Safe operating & maintenance manuals are provided to concerned personnel. Personal Protective Equipment (PPE's) i.e. safety shoe, safety goggles, nose mask, hand gloves, ear plug, poster, banners, display boards, safety symbols are also provided to all employees.

## 6. Occupational Health:

To ensure proper health of the working personnel, regular health checkup is being carried out as per provision of Factories Act. Proper housekeeping of the shop floors is maintained. Firefighting equipments and other safety appliances are tested regularly to ensure full serviceability. Training of employees for use of safety appliances and First Aid is imparted. Separate Wing with adequate knowledge of industrial hygiene is constantly checked for any occupational disease.

