



## SHIVA TEST HOUSE

(Serving since 1988)



TC-10582

RECOGNISED AS ENVIRONMENTAL LABORATORY BY MEFCL, GOVT. OF INDIA, UNDER ENVIRONMENT (PROTECTION) ACT 1986, DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

## TEST REPORT

Ref. No. STH/TR/22-23/7069-7072		Dt: 17.03.2023		Your Work Order No. 8917		Dt: 17.01.2021	
[a] Name and address of the Customer				Chief General Manager M/s Harinagar Sugar Mills P.O.: Harinagar W. CHAMPARAN – 845 103			
[b] Details of Sample				Monitoring of Ambient Air Quality			
[c] Sample Collected by				SHIVA TEST HOUSE on 05.03.23			
[d] Sampling Location				Within Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	27	Humidity (%)	69
[g] Details of Sample Container (No. & Type of Container)				Filter Paper ; Glass Impinger			
[h] Instrument ID				RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4			
[i] Sample Quantity				30 ml x 24 (for each NO <sub>2</sub> , SO <sub>2</sub> )			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				06.03.23			
[n] Analysis Start Date / Analysis Completion Date				06.03.23 / 07.03.23			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Guest House (SC_A-7069)	Near E.T.P (SC_A-7070)	Near Workshop (SC_A-7071)	Near STP (SC_A-7072)
Particulate Matter (PM <sub>10</sub> )	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-23)	100	74.4	74.3	79.4	74.5
				70.4	73.6	76.3	71.7
				74.7	78.2	76.6	76.6
Particulate Matter (PM <sub>2.5</sub> )	$\mu\text{g} / \text{m}^3$	CPCB GMAAP	60	38.3	42.0	43.1	40.7
				33.3	33.3	35.7	30.8
				35.8	38.3	40.6	38.3
Sulphur Dioxide as SO <sub>2</sub>	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-2)	80	16.2	22.8	22.9	16.9
				14.5	11.6	19.2	16.3
				11.2	11.4	14.6	13.0
				12.2	9.3	13.5	11.0
				14.2	14.5	12.5	13.0
17.2	23.8	16.7	14.9				
Nitrogen Dioxide as NO <sub>2</sub>	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-6)	80	40.0	44.3	43.9	42.0
				35.9	39.5	41.2	38.7
				32.4	32.4	36.1	32.5
				29.6	31.7	32.6	29.8
				31.7	36.6	34.7	36.6
37.9	39.4	41.8	37.9				
Average Value							
PM <sub>10</sub>	$\mu\text{g} / \text{m}^3$			73.1	75.4	77.4	74.3
PM <sub>2.5</sub>	$\mu\text{g} / \text{m}^3$			35.8	37.8	39.8	36.3
SO <sub>2</sub>	$\mu\text{g} / \text{m}^3$			14.3	15.6	16.6	14.2
NO <sub>2</sub>	$\mu\text{g} / \text{m}^3$			34.6	37.3	38.4	36.3

SHIBESHWAR PRASAD

Digitally signed by  
SHIBESHWAR PRASAD  
Date: 2023.03.17  
11:36:45 +05'30'

Verified by :  
Technical Manager



Shreyasee Prasad

Digitally signed by  
Shreyasee Prasad  
Date: 2023.03.17  
11:57:07 +05'30'  
Authorized Signatory  
Quality Manager

— END OF TEST REPORT —

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
4. Test Report can not be reproduced partially or full for legal/court purpose without written permission of the Laboratory.

Contact us : 122-C, Aastha, Road No. 5A, Patliputra Colony, Patna – 800 013 (Bihar)

Mob.: +918676886249; +919431047908

Email: sthpatna1@yahoo.co.in, info@shivatest.com

Website: www.shivatest.com; www.shivatesthouse.com







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## TEST REPORT

Ref. No. STH/TR/22-23/6288-6291	Dt: 22.02.2023	Your Work Order No. 8917	Dt: 17.01.2021				
[a] Name and address of the Customer		Chief General Manager M/s Harinagar Sugar Mills P.O.: Harinagar W. CHAMPARAN – 845 103					
[b] Details of Sample		Monitoring of Ambient Air Quality					
[c] Sample Collected by		SHIVA TEST HOUSE on 11.02.23					
[d] Sampling Location		Within Premises of Sugar Mill					
[e] Method of Sampling		IS 5182 (Part - 14)					
[f] Sampling Environmental Condition		Temp. (°C)	24 Humidity (%) 68				
[g] Details of Sample Container (No. & Type of Container)		Filter Paper ; Glass Impinger					
[h] Instrument ID		RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4					
[i] Sample Quantity		30 ml x 24 (for each NO <sub>2</sub> , SO <sub>2</sub> )					
[j] Sample Condition on Receipt		Fit for Analysis					
[k] Items required to be tested		As per contract					
[l] Whether any specific Method of Test has been suggested by the customer		No					
[m] Date of receiving the sample in Laboratory		13.02.23					
[n] Analysis Start Date / Analysis Completion Date		13.02.23 / 14.02.23					
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Guest House (SC_A-6288)	Near E.T.P (SC_A-6289)	Near Workshop (SC_A-6290)	Near STP (SC_A-6291)
Particulate Matter (PM <sub>10</sub> )	µg / m <sup>3</sup>	IS 5182 (Part-23)	100	76.1 70.1 80.2	76.5 76.2 79.2	80.0 77.9 80.3	81.0 74.2 73.9
Particulate Matter (PM <sub>2.5</sub> )	µg / m <sup>3</sup>	CPCB GMAAP	60	40.3 32.8 35.3	41.8 35.5 39.3	44.2 34.1 43.0	40.4 32.9 39.2
Sulphur Dioxide as SO <sub>2</sub>	µg / m <sup>3</sup>	IS 5182 (Part-2)	80	22.7 27.2 1.0 11.9 6.9 10.9	17.6 16.0 10.7 3.9 18.6 25.4	24.1 20.3 8.4 13.6 15.7 17.8	15.1 19.5 9.1 12.1 14.1 18.1
Nitrogen Dioxide as NO <sub>2</sub>	µg / m <sup>3</sup>	IS 5182 (Part-6)	80	36.3 32.2 25.5 28.2 36.3 41.0	43.1 41.3 28.5 29.9 32.5 37.2	39.9 37.8 34.2 32.0 37.5 38.4	40.4 37.7 31.5 29.4 32.1 34.9
Average Value							
PM <sub>10</sub>	µg / m <sup>3</sup>			75.4	77.3	79.4	76.4
PM <sub>2.5</sub>	µg / m <sup>3</sup>			36.1	38.9	40.4	37.6
SO <sub>2</sub>	µg / m <sup>3</sup>			13.4	15.4	16.7	14.7
NO <sub>2</sub>	µg / m <sup>3</sup>			33.2	35.4	36.6	37.6

SHIBESHWAR PRASAD

Digitally signed by SHIBESHWAR PRASAD  
Date: 2023.02.22 11:28:30 +05'30'

Verified by :  
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad  
Date: 2023.02.22 11:56:35 +05'30'

Authorized Signatory  
Quality Manager

-- END OF TEST REPORT --

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## TEST REPORT

Ref. No. <b>STH/TR/22-23/5503-5506</b>		Dt: <b>21.01.2023</b>		Your Work Order No. <b>8917</b>		Dt: <b>17.01.2021</b>	
[a] Name and address of the Customer				Chief General Manager M/s Harinagar Sugar Mills P.O.: Harinagar W. CHAMPARAN – 845 103			
[b] Details of Sample				Monitoring of Ambient Air Quality			
[c] Sample Collected by				SHIVA TEST HOUSE on 15.01.23			
[d] Sampling Location				Within Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	17	Humidity (%)	70
[g] Details of Sample Container (No. & Type of Container)				Filter Paper ; Glass Impinger			
[h] Instrument ID				RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4			
[i] Sample Quantity				30 ml x 24 (for each NO <sub>2</sub> , SO <sub>2</sub> )			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				16.01.23			
[n] Analysis Start Date / Analysis Completion Date				16.01.23 / 18.01.23			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Guest House (SC_A-5503)	Near E.T.P (SC_A-5504)	Near Workshop (SC_A-5505)	Near STP (SC_A-5506)
Particulate Matter (PM <sub>10</sub> )	µg / m <sup>3</sup>	IS 5182 (Part-23)	100	78.2	82.3	80.0	82.3
				72.2	74.0	76.3	75.9
				90.7	71.2	86.9	75.6
Particulate Matter (PM <sub>2.5</sub> )	µg / m <sup>3</sup>	CPCB GMAAP	60	46.6	44.4	48.0	43.0
				37.8	31.7	34.1	35.4
				40.3	43.1	43.0	41.8
Sulphur Dioxide as SO <sub>2</sub>	µg / m <sup>3</sup>	IS 5182 (Part-2)	80	31.6	15.6	19.9	16.1
				41.4	35.9	24.6	19.5
				9.9	17.6	11.5	9.1
				20.7	18.6	13.6	10.1
				12.8	28.3	12.6	16.1
Nitrogen Dioxide as NO <sub>2</sub>	µg / m <sup>3</sup>	IS 5182 (Part-6)	80	20.7	17.6	17.8	18.1
				34.9	45.1	39.9	38.3
				41.8	38.0	24.6	45.4
				30.2	27.2	11.5	33.5
				27.5	27.9	13.6	27.4
Average Value	µg / m <sup>3</sup>			43.0	36.5	17.8	37.6
				80.4	75.8	81.1	77.9
				41.6	39.7	41.7	40.1
SO <sub>2</sub>	µg / m <sup>3</sup>			22.9	22.3	16.7	14.8
NO <sub>2</sub>	µg / m <sup>3</sup>			36.2	34.5	38.2	35.4

**SHIBESHWAR PRASAD**

Digitally signed by SHIBESHWAR PRASAD  
Date: 2023.01.21 11:28:42 +05'30'

Verified by :  
Technical Manager



**Shreyasee Prasad**

Digitally signed by Shreyasee Prasad  
Date: 2023.01.21 11:33:16 +05'30'

Authorized Signatory  
Quality Manager

– END OF TEST REPORT –

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## TEST REPORT

Ref. No. <b>STH/TR/22-23/4940-4943</b>		Dt: <b>06.01.2023</b>		Your Work Order No. <b>8917</b>		Dt: <b>17.01.2021</b>	
[a] Name and address of the Customer				Chief General Manager M/s Harinagar Sugar Mills P.O.: Harinagar W. CHAMPARAN – 845 103			
[b] Details of Sample				Monitoring of Ambient Air Quality			
[c] Sample Collected by				SHIVA TEST HOUSE on 25.12.22			
[d] Sampling Location				Within Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	19	Humidity (%)	64
[g] Details of Sample Container (No. & Type of Container)				Filter Paper ; Glass Impinger			
[h] Instrument ID				RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4			
[i] Sample Quantity				30 ml x 24 (for each NO <sub>2</sub> , SO <sub>2</sub> )			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				26.12.22			
[n] Analysis Start Date / Analysis Completion Date				26.12.22 / 28.12.22			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Guest House (SC_A-4940)	Near E.T.P (SC_A-4941)	Near Workshop (SC_A-4942)	Near STP (SC_A-4943)
Particulate Matter (PM <sub>10</sub> )	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-23)	100	78.2	82.3	82.4	82.3
				72.2	74.0	69.9	75.9
				90.7	71.2	85.2	75.6
Particulate Matter (PM <sub>2.5</sub> )	$\mu\text{g} / \text{m}^3$	CPCB GMAAP	60	46.6	44.4	48.0	43.0
				37.8	31.7	34.1	32.9
				40.3	43.1	43.0	41.8
Sulphur Dioxide as SO <sub>2</sub>	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-2)	80	17.8	15.6	19.9	16.1
				22.8	18.9	16.0	19.5
				9.9	8.8	9.4	9.1
				8.9	12.7	13.6	10.1
				12.8	11.7	12.6	14.1
				20.7	17.6	14.7	15.1
Nitrogen Dioxide as NO <sub>2</sub>	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-6)	80	37.6	45.1	39.9	38.3
				45.9	34.6	42.9	41.2
				30.2	29.9	32.0	33.5
				25.5	25.2	32.8	26.0
				39.6	34.5	37.5	30.1
				43.0	36.5	38.4	37.6
Average Value							
PM <sub>10</sub>	$\mu\text{g} / \text{m}^3$			80.4	75.8	79.2	77.9
PM <sub>2.5</sub>	$\mu\text{g} / \text{m}^3$			41.6	39.7	41.7	39.2
SO <sub>2</sub>	$\mu\text{g} / \text{m}^3$			15.4	14.2	14.4	14.0
NO <sub>2</sub>	$\mu\text{g} / \text{m}^3$			37.0	39.7	37.2	34.5

SHIBESHWAR PRASAD  
Digitally signed by SHIBESHWAR PRASAD  
Date: 2023.01.06 14:22:04 +05'30'

Verified by :  
Technical Manager

Shreyasee Prasad  
Digitally signed by Shreyasee Prasad  
Date: 2023.01.06 14:25:34 +05'30'  
Authorized Signatory  
Quality Manager

– END OF TEST REPORT –

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Contact us : 122-C, Aastha, Road No. 5A, Patliputra Colony, Patna – 800 013 (Bihar)  
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## TEST REPORT

Ref. No. <i>STH/TR/22-23/4094-4097</i>		Dt: <i>08.12.2022</i>		Your Work Order No. <i>8917</i>		Dt : <i>17.01.2021</i>	
[a] Name and address of the Customer				Chief General Manager M/s Harinagar Sugar Mills P.O.: Harinagar W. CHAMPARAN – 845 103			
[b] Details of Sample				Monitoring of Ambient Air Quality			
[c] Sample Collected by				SHIVA TEST HOUSE on 22.11.22			
[d] Sampling Location				Within Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	28	Humidity (%)	69
[g] Details of Sample Container (No. & Type of Container)				Filter Paper ; Glass Impinger			
[h] Instrument ID				RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4			
[i] Sample Quantity				30 ml x 24 (for each NO <sub>2</sub> , SO <sub>2</sub> )			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				21.11.22			
[n] Analysis Start Date / Analysis Completion Date				21.11.22 / 23.11.22			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Guest House (SC_A-4094)	Near E.T.P (SC_A-4095)	Near Workshop (SC_A-4096)	Near STP (SC_A-4097)
Particulate Matter (PM <sub>10</sub> )	µg / m <sup>3</sup>	IS 5182 (Part-23)	100	78.2	82.3	82.4	82.3
				69.9	72.3	66.7	72.5
				90.7	69.5	85.2	75.6
Particulate Matter (PM <sub>2.5</sub> )	µg / m <sup>3</sup>	CPCB GMAAP	60	46.6	44.4	48.0	43.0
				35.3	31.7	32.8	32.9
				40.3	38.0	37.9	38.0
Sulphur Dioxide as SO <sub>2</sub>	µg / m <sup>3</sup>	IS 5182 (Part-2)	80	17.8	15.6	19.9	16.1
				12.1	15.0	16.0	11.3
				9.9	8.8	9.4	9.1
				8.9	12.7	10.5	10.1
				12.8	11.7	12.6	14.1
Nitrogen Dioxide as NO <sub>2</sub>	µg / m <sup>3</sup>	IS 5182 (Part-6)	80	15.8	17.6	14.7	15.1
				37.6	39.8	39.9	38.3
				35.7	34.6	37.8	37.0
				30.2	29.9	32.0	33.5
				25.5	25.2	32.8	26.0
Average Value				39.6	31.9	37.5	30.1
				43.0	36.5	38.4	37.6
PM <sub>10</sub>	µg / m <sup>3</sup>			79.3	74.7	78.1	76.8
PM <sub>2.5</sub>	µg / m <sup>3</sup>			40.7	38.0	39.6	38.0
SO <sub>2</sub>	µg / m <sup>3</sup>			12.9	13.6	13.8	12.6
NO <sub>2</sub>	µg / m <sup>3</sup>			35.3	33.0	36.4	33.8

**SHIBESHWAR PRASAD**  
Digitally signed by SHIBESHWAR PRASAD  
Date: 2022.12.17 11:12:53 +05'30'

Verified by :  
Technical Manager



**Shreyasee Prasad**  
Digitally signed by Shreyasee Prasad  
Date: 2022.12.17 11:20:11 +05'30'

Authorized Signatory  
Quality Manager

-- END OF TEST REPORT --

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Contact us : 122-C, Aastha, Road No. 5A, Patliputra Colony, Patna – 800 013 (Bihar)

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## TEST REPORT

Ref. No. <b>STH/TR/22-23/3187</b>	Dt: <b>09.11.2022</b>	Your Work Order No. <b>8917</b>	Dt: <b>17.01.2021</b>
[a] Name and address of the Customer		Chief General Manager M/s Harinagar Sugar Mills P.O.: Harinagar W. CHAMPARAN – 845 103	
[b] Details of Sample		Monitoring of Ambient Air Quality	
[c] Sample Collected by		SHIVA TEST HOUSE on 14.10.22	
[d] Sampling Location		Within Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	30 Humidity (%) 67
[g] Details of Sample Container (No. & Type of Container)		Filter Paper ; Glass Impinger	
[h] Instrument ID		RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4	
[i] Sample Quantity		30 ml x 24 (for each NO <sub>2</sub> , SO <sub>2</sub> )	
[j] Sample Condition on Receipt		Fit for Analysis	
[k] Items required to be tested		As per contract	
[l] Whether any specific Method of Test has been suggested by the customer		No	
[m] Date of receiving the sample in Laboratory		15.10.22	
[n] Analysis Start Date / Analysis Completion Date		15.10.22 / 17.10.22	

Parameters	Unit	Method of Test	Limit as per NMAQS 2019	Sampling Station / Result			
				Near Guest House (SC_A-3187)	Near E.T.P (SC_A-3188)	Near Workshop (SC_A-3189)	Near STP (SC_A-3190)
Particulate Matter (PM <sub>10</sub> )	µg / m <sup>3</sup>	IS 5182 (Part-23)	100	88.0	80.8	86.6	82.9
				69.8	66.0	66.0	64.9
				77.7	73.3	79.5	77.3
Particulate Matter (PM <sub>2.5</sub> )	µg / m <sup>3</sup>	CPCB GMAAP	60	46.7	40.3	44.9	43.5
				34.4	31.5	29.9	34.8
				39.3	37.8	38.6	39.8
Sulphur Dioxide as SO <sub>2</sub>	µg / m <sup>3</sup>	IS 5182 (Part-2)	80	17.7	25.8	14.8	15.6
				11.7	11.2	9.1	10.6
				9.4	18.9	13.8	15.6
				9.6	8.1	10.1	8.5
				13.5	12.9	7.9	19.8
Nitrogen Dioxide as NO <sub>2</sub>	µg / m <sup>3</sup>	IS 5182 (Part-6)	80	14.9	8.1	9.1	11.7
				41.1	31.0	39.5	41.8
				39.1	29.6	41.1	38.3
				26.2	30.4	26.8	31.2
				25.3	41.3	26.7	31.1
Average Value				29.0	33.1	29.1	28.3
				34.0	34.5	24.0	33.3
PM <sub>10</sub>	µg / m <sup>3</sup>			76.5	73.4	77.4	75.1
PM <sub>2.5</sub>	µg / m <sup>3</sup>			40.1	36.5	37.8	39.4
SO <sub>2</sub>	µg / m <sup>3</sup>			12.8	14.2	10.8	13.7
NO <sub>2</sub>	µg / m <sup>3</sup>			32.4	33.3	31.2	34.0

**SHIBESHWAR PRASAD**

Digitally signed by SHIBESHWAR PRASAD  
Date: 2022.11.09  
15:04:43 +05'30'

Verified by :  
Technical Manager



**Shreyasee Prasad**

Digitally signed by Shreyasee Prasad  
Date: 2022.11.09  
15:08:04 +05'30'

Authorized Signatory  
Quality Manager

– END OF TEST REPORT –

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
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