Vardan EnviroLab

Regd. Off: D-142, Sushant Lok-III, Golf Course Extension Road, Sector-57, Gurgaon (Hr) Tel: 0124-4291036
Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275
(ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1603/1685-1711
		Reporting Date:	08/06/2016
		Ref. No:	NIL
Sample Description:	Ambient Air Quality Monitoring	Monitoring Period:	March to May 2016
Sample Collected by:	Vardan Envirolab Team	Equipment Used:	RDS & FPS with all accessories
Location:	Project Site (A1)	Protocol Used:	CPCB Guidelines/IS-5182

RESULT

Date	PM10 (µg/m^3)	PM 2.5 (µg/m^3)	NO_2 (µg/m^3)	SO_2 (µg/m^3)	CO (mg/m^3)
01.03.2016	71.7	34.2	25.4	10.9	0.78
02.03.2016	63.2	41.1	27.3	15.4	0.84
08.03.2016	69.4	37.6	20.5	17.2	0.96
09.03.2016	73.2	44.6	19.2	13.0	0.88
15.03.2016	70.8	40.8	30.8	16.1	1.06
16.03.2016	76.1	38.3	27.1	10.9	0.87
22.03.2016	68.4	45.4	30.6	16.3	0.67
23.03.2016	71.3	39.8	30.9	14.3	0.78
29.03.2016	68.0	42.0	27.3	12.9	1.02
30.03.2016	74.2	34.7	32.9	10.7	0.89
05.04.2016	67.4	45.0	29.8	14.3	0.73
06.04.2016	63.1	39.8	31.6	16.9	0.87
12.04.2016	66.6	41.1	25.0	11.1	0.99
13.04.2016	64.3	34.1	20.6	10.8	1.05
19.04.2016	71.8	40.8	26.5	13.2	0.65
20.04.2016	65.2	36.0	30.7	16.4	0.87
26.04.2016	60.7	39.7	28.6	13.2	0.76
27.04.2016	76.3	41.5	23.9	19.8	0.83
03.05.2016	68.3	36.3	27.6	17.3	0.69
04.05.2016	70.7	39.7	28.0	14.3	0.93
10.05.2016	65.6	34.0	24.1	12.1	1.11

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

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Test Certificate

Report No.: VEL/A/MSI/1603/1685-1711

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
11.05.2016	64.9	39.7	30.8	17.2	0.76
17.05.2016	70.7	34.3	28.7	15.3	0.70
18.05.2016	69.1	41.7	24.1	14.1	0.98
24.05.2016	73.7	45.9	29.8	17.6	0.80
25.05.2016	69.9	37.8	31.3	15.8	1.03
31.05.2016	74.1	42.0	27.6	13.0	0.90

Mr. HIMANSHU ADHIKARI
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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd. Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1603/1712-1738
		Reporting Date:	08/06/2016
		Ref. No:	NIL
Sample Description:	Ambient Air Quality Monitoring	Monitoring Period:	March to May 2016
Sample Collected by :	Vardan Envirolab Team	Equipment Used:	RDS & FPS with all accessories
Location:	Village-Rajabhaur (A2)	Protocol Used:	CPCB Guidelines/IS-5182

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
01.03.2016	69.8	40.1	17.6	12.5	0.87
02.03.2016	69.3	36.2	24.3	10.4	0.90
08.03.2016	73.2	40.3	29.7	9.5	1.12
09.03.2016	70.6	44.7	33.6	11.3	0.78
15.03.2016	68.4	39.8	30.8	14.7	0.85
16.03.2016	71.1	46.2	24.3	16.0	0.92
22.03.2016	60.9	31.5	24.3	10.9	1.02
23.03.2016	70.1	36.5	21.9	14.3	0.77
29.03.2016	71.7	32.1	24.0	10.8	0.89
30.03.2016	67.8	40.8	31.8	14.3	0.94
05.04.2016	62.1	35.6	27.6	12.7	0.78
06.04.2016	69.0	31.7	29.7	10.7	1.02
12.04.2016	74.3	42.1	29.8	14.3	0.98
13.04.2016	62.1	37.6	31.1	15.4	0.65
19.04.2016	60.3	30.7	25.5	10.4	0.78
20.04.2016	74.2	34.8	21.9	9.8	0.89
26.04.2016	76.9	41.1	31.8	11.4	0.92
27.04.2016	67.5	43.9	28.6	14.3	1.02
03.05.2016	69.8	34.6	28.9	9.8	0.89
04.05.2016	64.8	37.3	32.9	15.4	0.93
10.05.2016	67.2	38.3	28.7	13.6	1.03

Mr. HIMANSHU ADHIKARI
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Test Certificate

Report No.: VEL/A/MSI/1603/1712-1738

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
11.05.2016	72.5	38.9	23.5	9.5	1.11
17.05.2016	69.6	34.6	25.8	11.5	0.89
18.05.2016	73.2	31.9	19.8	10.4	0.80
24.05.2016	70.6	42.5	20.6	8.7	1.03
25.05.2016	65.4	36.5	16.5	14.3	0.78
31.05.2016	71.2	30.1	21.1	16.8	0.90

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1603/1739-1764
		Reporting Date:	08/06/2016
		Ref. No:	NIL
Sample Description:	Ambient Air Quality Monitoring	Monitoring Period:	March to May 2016
Sample Collected by:	Vardan Envirolab Team	Equipment Used:	RDS & FPS with all accessories
Location:	Near Village-Ganauli (A3)	Protocol Used:	CPCB Guidelines/IS-5182

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
03.03.2016	59.3	33.4	17.0	12.8	0.78
04.03.2016	66.1	37.2	16.8	9.3	0.82
10.03.2016	60.0	35.4	17.2	9.1	0.90
11.03.2016	58.2	28.5	18.2	9.1	1.03
17.03.2016	61.5	32.0	16.4	10.1	0.89
18.03.2016	59.0	30.2	23.1	8.7	0.93
24.03.2016	57.1	31.1	17.0	10.0	1.01
25.03.2016	70.1	29.8	20.1	9.0	1.12
31.03.2016	65.3	27.6	17.5	9.9	0.98
01.04.2016	56.8	30.2	18.7	8.3	0.87
07.04.2016	64.7	32.0	17.5	9.4	1.03
08.04.2016	73.8	29.0	26.1	8.7	0.76
14.04.2016	56.5	29.8	17.8	8.6	0.98
15.04.2016	63.3	27.6	16.8	13.2	1.11
21.04.2016	76.1	30.8	16.5	7.5	0.90
22.04.2016	58.1	38.1	17.1	8.9	0.87
28.04.2016	57.8	31.1	24.1	9.8	0.98
29.04.2016	54.7	36.1	17.0	9.4	1.12
05.05.2016	60.9	29.0	21.1	10.3	0.76
06.05.2016	79.3	45.1	16.8	14.1	0.83
12.05.2016	55.2	31.2	17.1	8.2	0.98

MR. HIMANSHU ADHIKARI
M.Sc. Env. Science

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Test Certificate

Report No.: VEL/A/MSI/1603/1739-1764

Date	PM10 (µg/m^3)	PM 2.5 (µg/m^3)	NO_2 (µg/m^3)	SO_2 (µg/m^3)	CO (mg/m^3)
13.05.2016	60.9	31.1	16.2	13.2	1.21
19.05.2016	63.0	30.7	17.8	9.9	1.03
20.05.2016	69.2	41.2	17.8	9.4	0.87
26.05.2016	57.1	30.4	17.5	7.8	0.76
27.05.2016	51.4	33.2	23.8	8.6	1.02

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1603/1765-1790
		Reporting Date:	08/06/2016
		Ref. No:	NIL
Sample Description:	Ambient Air Quality Monitoring	Monitoring Period:	March to May 2016
Sample Collected by :	Vardan Envirolab Team	Equipment Used:	RDS & FPS with all accessories
Location:	Near Village-Shikarpur (A4)	Protocol Used:	CPCB Guidelines/IS-5182

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
03.03.2016	64.8	29.0	24.0	8.0	1.09
04.03.2016	79.1	43.1	26.5	9.1	0.98
10.03.2016	60.7	30.8	29.8	9.6	0.87
11.03.2016	65.5	37.7	19.4	10.4	1.12
17.03.2016	70.4	32.1	22.7	7.9	0.89
18.03.2016	68.0	32.7	21.5	9.5	0.76
24.03.2016	62.9	35.6	20.6	10.8	1.21
25.03.2016	86.1	46.1	23.5	8.7	0.89
31.03.2016	66.1	28.7	21.1	10.4	0.65
01.04.2016	60.2	30.3	26.4	7.9	0.78
07.04.2016	68.1	45.1	21.8	10.6	0.83
08.04.2016	62.7	28.1	19.7	8.7	1.11
14.04.2016	66.1	30.4	23.6	6.4	1.23
15.04.2016	76.1	29.9	20.5	8.2	0.78
21.04.2016	66.9	31.4	24.7	10.2	0.92
22.04.2016	62.4	28.6	18.7	7.8	1.03
28.04.2016	67.0	30.2	21.8	9.9	0.94
29.04.2016	62.1	29.8	26.9	10.1	0.89
05.05.2016	80.1	42.1	22.5	13.2	0.92
06.05.2016	63.5	29.6	18.5	8.6	0.76
12.05.2016	65.5	30.4	26.9	10.3	0.80

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M.Sc. Env. Science

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Test Certificate

Report No.:	VEL/A/MSI/1603/1765-1790				
Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
13.05.2016	61.2	39.8	23.1	9.8	0.90
19.05.2016	63.0	30.6	25.4	7.9	1.03
20.05.2016	58.1	31.3	19.7	10.2	0.76
26.05.2016	67.7	28.7	28.3	11.4	0.87
27.05.2016	62.9	32.0	24.4	13.2	0.92

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M.Sc. Env. Science

VARDAN ENVIRO LAB (GURGAON)
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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd. Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1603/1791-1816
		Reporting Date:	08/06/2016
		Ref. No:	NIL
Sample Description:	Ambient Air Quality Monitoring	Monitoring Period:	March to May 2016
Sample Collected by :	Vardan Envirolab Team	Equipment Used:	RDS & FPS with all accessories
Location:	Near Village-Karamtota (A5)	Protocol Used:	CPCB Guidelines/IS-5182

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
05.03.2016	69.5	30.1	25.0	11.3	0.65
06.03.2016	59.8	39.1	21.1	9.9	0.89
12.03.2016	63.1	29.4	19.4	12.1	0.76
13.03.2016	66.1	30.3	23.1	14.0	1.03
19.03.2016	60.1	28.7	19.0	13.2	1.11
20.03.2016	61.4	30.8	21.6	11.7	0.87
26.03.2016	70.8	29.9	19.8	9.9	0.92
27.03.2016	57.2	28.0	21.4	8.0	1.04
02.04.2016	51.2	30.7	23.9	10.1	0.85
03.04.2016	53.9	29.8	19.8	9.7	0.76
09.04.2016	59.8	30.9	24.0	10.2	0.69
10.04.2016	61.3	30.0	21.4	9.7	0.79
16.04.2016	60.8	28.4	18.7	11.1	0.94
17.04.2016	80.1	37.5	22.0	10.6	1.12
23.04.2016	76.9	33.2	24.3	13.9	0.90
24.04.2016	56.0	31.6	24.3	9.8	0.78
30.04.2016	60.5	29.7	21.3	11.3	0.92
01.05.2016	61.0	30.8	26.5	9.0	1.04
07.05.2016	75.1	28.7	23.1	14.3	1.11
08.05.2016	54.4	32.1	20.6	10.9	0.89
14.05.2016	63.8	29.8	21.7	12.4	0.68

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Test Certificate

Report No.: VEL/A/MSI/1603/1791-1816

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
15.05.2016	56.3	29.3	23.8	9.8	0.78
21.05.2016	69.5	30.1	25.9	12.4	0.92
22.05.2016	59.8	28.4	21.1	10.9	1.01
28.05.2016	64.7	28.1	20.8	13.2	0.76
29.05.2016	53.8	30.6	24.2	11.2	0.56

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1603/1817-1842
		Reporting Date:	08/06/2016
		Ref. No:	NIL
		Monitoring Period:	March to May 2016
Sample Description:	Ambient Air Quality Monitoring	Equipment Used:	RDS & FPS with all accessories
Sample Collected by :	Vardan Envirolab Team	Protocol Used:	CPCB Guidelines/IS-5182
Location:	Near Village-Jawkatia (A6)		

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
05.03.2016	56.3	37.4	18.9	9.0	1.22
06.03.2016	68.1	39.0	25.0	11.6	0.98
12.03.2016	71.5	41.1	20.7	13.2	0.80
13.03.2016	59.8	34.8	18.6	9.8	0.76
19.03.2016	65.4	36.9	23.5	7.5	0.99
20.03.2016	67.0	32.1	23.7	9.5	1.12
26.03.2016	58.2	37.6	27.0	12.0	0.78
27.03.2016	60.9	41.2	21.5	7.8	0.89
02.04.2016	68.6	41.6	24.4	8.6	0.93
03.04.2016	71.5	46.0	20.2	10.4	1.12
09.04.2016	58.1	35.3	26.5	11.5	0.76
10.04.2016	63.2	40.8	19.8	8.9	0.90
16.04.2016	59.4	39.8	24.6	9.8	1.23
17.04.2016	62.2	32.6	20.5	12.1	0.78
23.04.2016	70.5	40.8	19.8	8.7	0.93
24.04.2016	57.4	31.6	23.7	9.0	1.11
30.04.2016	63.2	38.4	18.5	12.6	0.76
01.05.2016	56.9	34.7	23.1	10.7	0.69
07.05.2016	63.4	38.7	19.8	12.6	0.56
08.05.2016	59.8	40.3	16.4	9.5	0.70
14.05.2016	63.1	33.9	29.5	13.0	0.82

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

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Vardan EnviroLab

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Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275
(ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Report No.: **Test Certificate** VEL/A/MSI/1603/1817-1842

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
15.05.2016	70.2	31.2	20.9	13.9	0.70
21.05.2016	67.8	38.5	18.7	10.6	0.89
22.05.2016	59.0	40.7	26.0	8.0	1.02
28.05.2016	56.4	36.4	20.6	11.1	0.90
29.05.2016	64.3	40.1	19.9	8.6	0.76

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1603/1843-1868
		Reporting Date:	08/06/2016
		Ref. No:	NIL
		Monitoring Period:	March to May 2016
Sample Description:	Ambient Air Quality Monitoring	Equipment Used:	RDS & FPS with all accessories
Sample Collected by :	Vardan Envirolab Team	Protocol Used:	CPCB Guidelines/IS-5182
Location:	Near Village-Barwat Sena (A7)		

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
05.03.2016	59.8	31.1	22.3	9.7	1.02
06.03.2016	71.8	31.6	20.7	9.4	1.29
12.03.2016	59.0	34.8	18.7	8.8	0.98
13.03.2016	62.3	31.2	21.2	10.3	1.22
19.03.2016	61.2	35.4	21.1	8.0	1.03
20.03.2016	57.6	30.8	24.0	9.3	0.98
26.03.2016	53.5	32.6	18.9	10.5	0.76
27.03.2016	59. 8	30.9	31.6	11.6	0.90
02.04.2016	70.5	34.0	23.5	9.4	0.94
03.04.2016	61.1	31.2	32.8	10.4	1.03
09.04.2016	57.6	33.0	19.7	9.3	1.22
10.04.2016	59.7	43.2	21.4	8.5	0.97
16.04.2016	66.2	37.6	25.4	9.1	0.72
17.04.2016	61.2	31.2	19.8	11.2	0.69
23.04.2016	59.0	36.0	31.6	8.7	1.23
24.04.2016	55.4	30.8	29.8	8.2	1.03
30.04.2016	67.4	35.4	24.3	10.6	1.22
01.05.2016	59.0	32.1	21.4	12.0	0.89
07.05.2016	72.5	30.9	25.0	10.0	0.95
08.05.2016	63.2	34.3	29.8	10.2	1.03
14.05.2016	57.6	36.5	24.3	9.9	1.23

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

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Report No.: **Test Certificate** VEL/A/MSI/1603/1843-1868

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
15.05.2016	63.5	30.6	18.7	9.5	1.40
21.05.2016	60.9	31.2	20.3	9.0	0.89
22.05.2016	63.4	30.8	21.5	9.6	1.03
28.05.2016	66.5	32.1	23.6	10.3	1.11
29.05.2016	60.4	36.0	32.7	8.6	0.86

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1603/1869-1895
		Reporting Date:	08/06/2016
		Ref. No:	NIL
Sample Description:	Ambient Air Quality Monitoring	Monitoring Period:	March to May 2016
Sample Collected by :	Vardan Envirolab Team	Equipment Used:	RDS & FPS with all accessories
Location:	Near Village- Senduria (A8)	Protocol Used:	CPCB Guidelines/IS-5182

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
01.03.2016	75.4	36.5	20.3	10.2	0.80
02.03.2016	68.4	32.4	23.5	9.9	0.92
08.03.2016	77.1	31.3	16.4	8.4	0.78
09.03.2016	65.3	40.4	19.4	11.3	0.67
15.03.2016	61.2	36.2	18.2	10.5	1.03
16.03.2016	58.4	33.5	16.1	8.6	1.11
22.03.2016	78.9	35.6	21.3	8.9	0.89
23.03.2016	69.4	39.4	23.5	9.6	0.93
29.03.2016	70.5	42.3	24.1	11.2	1.09
30.03.2016	72.3	44.1	22.7	13.5	0.89
05.04.2016	64.5	38.6	21.3	10.2	0.90
06.04.2016	68.2	37.2	17.5	9.6	0.85
12.04.2016	71.2	40.5	19.3	9.4	1.03
13.04.2016	84.3	33.3	16.3	8.5	1.22
19.04.2016	58.1	36.4	17.1	8.9	0.89
20.04.2016	56.9	35.1	18.2	10.2	0.90
26.04.2016	59.3	37.5	20.3	9.7	1.20
27.04.2016	79.8	41.6	21.2	10.3	0.89
03.05.2016	62.4	39.5	19.8	9.9	0.76
04.05.2016	72.3	41.2	20.5	12.3	0.69
10.05.2016	70.1	40.3	22.3	10.1	0.83

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

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Vardan EnviroLab

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Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275
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Test Certificate

Report No.:	VEL/A/MSI/1603/1869-1895				
Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
11.05.2016	66.2	36.6	20.3	10.2	0.87
17.05.2016	80.5	43.8	18.4	8.9	1.03
18.05.2016	64.2	33.4	19.8	9.9	0.98
24.05.2016	61.2	30.3	22.4	10.2	0.48
25.05.2016	77.8	40.7	18.9	9.8	0.80
31.05.2016	66.3	34.2	20.1	11.2	1.07

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1610/1268-1285
		Reporting Date:	08/12/2016
		Ref. No:	NIL
		Monitoring Period:	October -November 2016
		Equipment Used:	RDS & FPS with all accessories
Sample Description:	Ambient Air Quality Monitoring		
Sample Collected by:	Vardan Envirolab Team	Protocol Used:	CPCB Guidelines/IS-5182
Location:	Project Site (A1)	Parameter Required	As Per TOR Latter

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
01.10.2016	69.8	34.5	29.8	7.8	0.87
02.10.2016	75.4	36.2	27.6	8.3	1.02
08.10.2016	73.2	38.6	32.3	9.8	0.98
09.10.2016	86.5	42.1	26.5	12.3	1.54
15.10.2016	79.5	34.3	30.3	10.6	1.98
16.10.2016	78.4	31.9	28.7	14.3	0.76
22.10.2016	81.1	40.6	37.8	9.8	0.80
23.10.2016	77.6	36.5	27.6	15.4	1.10
29.10.2016	85.4	42.3	34.5	13.1	0.88
30.10.2016	82.3	38.9	30.5	10.6	1.22
05.11.2016	76.5	39.6	23.4	9.9	1.98
06.11.2016	79.8	40.1	19.8	12.3	0.67
12.11.2016	72.1	34.5	45.8	10.5	0.86
13.11.2016	77.6	39.8	25.4	12.2	0.88
19.11.2016	82.1	50.3	29.7	8.7	0.93
20.11.2016	89.2	47.6	30.4	10.5	1.01
26.11.2016	65.4	32.1	28.6	12.3	0.76
27.11.2016	78.3	39.4	38.7	10.9	0.90

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

VARDAN ENVIRO LAB (GURGAON) GAURAV CHAUHAN AUTHORISED SIGNATORY

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Vardan EnviroLab

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery Plant (Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1610/1286-1303
		Reporting Date:	08/12/2016
		Ref. No:	NIL
		Monitoring Period:	October -November 2016
Sample Description:	Ambient Air Quality Monitoring	Equipment Used:	RDS & FPS with all accessories
Sample Collected by :	Vardan Envirolab Team	Protocol Used:	CPCB Guidelines/IS-5182
Location:	Near Village- Rajabhaur (A2)	Parameter Required	As Per TOR Latter

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
01.10.2016	76.5	38.7	30.9	12.0	1.21
02.10.2016	71.0	32.1	32.6	14.3	0.98
08.10.2016	68.7	35.4	29.8	10.6	1.99
09.10.2016	72.3	33.8	40.4	8.9	2.03
15.10.2016	83.2	47.5	27.6	9.0	1.87
16.10.2016	75.4	40.2	30.5	12.2	10.5
22.10.2016	77.9	37.6	38.6	10.6	0.89
23.10.2016	82.1	48.3	32.1	13.0	0.97
29.10.2016	92.1	54.1	30.5	10.3	1.02
30.10.2016	87.6	50.5	29.6	9.5	0.78
05.11.2016	82.1	49.7	31.1	11.4	0.89
06.11.2016	76.5	42.1	20.6	10.5	1.03
12.11.2016	73.2	39.7	19.6	12.6	1.32
13.11.2016	69.8	32.1	30.5	9.6	1.02
19.11.2016	79.4	40.2	38.6	11.4	0.89
20.11.2016	80.2	50.3	30.2	10.6	0.94
26.11.2016	77.2	45.3	28.7	12.3	1.22
27.11.2016	70.6	40.1	30.4	10.8	1.07

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

VARDAN ENVIRO LAB GURGAON
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AUTHORISED SIGNATORY

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Vardan EnviroLab

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1610/1304-1321
		Reporting Date:	08/12/2016
		Ref. No:	NIL
		Monitoring Period:	October -November 2016
Sample Description:	Ambient Air Quality Monitoring	Equipment Used:	RDS & FPS with all accessories
Sample Collected by:	Vardan Envirolab Team	Protocol Used:	CPCB Guidelines/IS-5182
Location:	Near Village-Ganauli (A3)	Parameter Required	As Per TOR Latter

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
01.10.2016	65.4	30.6	38.9	12.0	0.97
02.10.2016	76.5	40.3	17.6	9.9	1.03
08.10.2016	73.2	37.6	23.4	10.5	0.99
09.10.2016	84.3	49.7	29.8	13.4	1.32
15.10.2016	79.0	34.2	34.2	8.7	1.11
16.10.2016	65.4	36.5	39.8	9.9	0.98
22.10.2016	76.3	41.6	27.6	12.3	0.87
23.10.2016	83.0	37.6	32.1	10.6	1.32
29.10.2016	91.6	54.0	18.7	14.3	1.02
30.10.2016	80.2	50.4	40.6	11.5	0.98
05.11.2016	83.2	49.7	45.6	10.7	0.87
06.11.2016	76.5	42.3	30.6	14.0	0.80
12.11.2016	73.2	40.2	26.5	13.2	1.34
13.11.2016	71.0	39.8	21.3	11.5	0.78
19.11.2016	74.3	36.4	26.5	10.6	0.99
20.11.2016	79.8	32.5	29.8	9.7	1.32
26.11.2016	82.3	39.8	32.1	8.4	1.01
27.11.2016	74.3	40.6	30.7	10.7	0.87

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

VARDAN ENVIRO LAB GURGAON (HR) SANJAY CHACHAN AUTHORISED SIGNATORY

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Vardan EnviroLab

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1610/1322-1339
		Reporting Date:	08/12/2016
		Ref. No:	NIL
		Monitoring Period:	October -November 2016
		Equipment Used:	RDS & FPS with all accessories
Sample Description:	Ambient Air Quality Monitoring		
Sample Collected by :	Vardan Envirolab Team	Protocol Used:	CPCB Guidelines/IS-5182
Location:	Near Village-Shikarpur (A4)	Parameter Required	As Per TOR Latter

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
03.10.2016	68.4	36.5	30.1	12.1	0.98
04.10.2016	69.8	37.2	25.4	9.7	1.03
10.10.2016	75.6	39.0	29.6	10.5	0.76
11.10.2016	72.1	41.4	32.4	13.2	1.32
17.10.2016	69.7	37.6	28.6	10.5	1.98
18.10.2016	77.5	39.2	34.5	8.9	0.87
24.10.2016	87.3	45.3	30.7	9.0	1.02
25.10.2016	83.2	42.9	31.2	11.2	0.87
31.10.2016	89.4	47.8	27.6	10.9	0.91
01.11.2016	82.1	50.3	30.5	10.6	1.22
07.11.2016	73.2	42.1	29.6	7.8	0.96
08.11.2016	79.0	38.6	34.5	9.0	1.32
14.11.2016	72.1	32.3	32.1	13.2	1.06
15.11.2016	69.8	30.4	29.7	15.4	0.78
21.11.2016	83.2	43.2	31.5	12.2	1.00
22.11.2016	89.7	47.6	28.9	8.9	0.65
28.11.2016	82.1	50.2	34.2	9.7	1.76
29.11.2016	77.6	43.9	29.8	11.7	1.05

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

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Annexure IV

Vardan EnviroLab

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Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275
(ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd. Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1610/1340-1357
		Reporting Date:	08/12/2016
		Ref. No:	NIL
		Monitoring Period:	October -November 2016
		Equipment Used:	RDS & FPS with all accessories
Sample Description:	Ambient Air Quality Monitoring		
Sample Collected by :	Vardan Envirolab Team	Protocol Used:	CPCB Guidelines/IS-5182
Location:	Near Village-Karamtota (A5)	Parameter Required	As Per TOR Latter

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
03.10.2016	72.3	32.4	28.7	13.2	0.98
04.10.2016	80.4	38.6	20.7	9.9	1.02
10.10.2016	70.4	34.5	19.7	10.5	1.22
11.10.2016	67.6	31.2	32.4	11.4	0.89
17.10.2016	77.5	39.7	29.7	10.6	1.98
18.10.2016	81.4	42.1	30.5	14.3	1.00
24.10.2016	73.2	30.5	25.4	12.0	1.07
25.10.2016	84.3	43.2	30.2	9.6	0.76
31.10.2016	77.4	31.2	28.6	9.0	0.89
01.11.2016	88.5	39.6	37.6	11.2	0.91
07.11.2016	69.5	32.1	31.2	10.7	1.04
08.11.2016	73.5	37.6	29.7	9.6	1.32
14.11.2016	80.1	40.5	30.5	12.3	0.88
15.11.2016	67.5	30.4	22.3	10.6	0.76
21.11.2016	69.4	29.8	18.6	7.8	0.72
22.11.2016	78.4	32.1	30.5	9.9	1.02
28.11.2016	89.2	47.6	38.4	11.3	0.89
29.11.2016	80.2	43.2	28.7	10.5	0.95

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M.Sc. Env. Science

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Vardan EnviroLab

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Ltd. Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1610/1358-1375
		Reporting Date:	08/12/2016
		Ref. No:	NIL
		Monitoring Period:	October -November 2016
		Equipment Used:	RDS & FPS with all accessories
Sample Description:	Ambient Air Quality Monitoring		
Sample Collected by :	Vardan Envirolab Team	Protocol Used:	CPCB Guidelines/IS-5182
Location:	Near Village-Jawkatia (A6)	Parameter Required:	As Per TOR Latter

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
03.10.2016	83.2	47.6	19.6	10.0	1.54
04.10.2016	70.4	39.8	27.6	14.3	1.03
10.10.2016	77.5	40.1	23.1	12.0	0.98
11.10.2016	80.1	43.2	20.6	7.6	0.70
17.10.2016	76.3	32.5	19.7	8.9	0.65
18.10.2016	70.4	36.5	39.8	10.4	1.05
24.10.2016	63.2	30.2	43.2	10.6	1.43
25.10.2016	89.3	43.2	30.5	10.3	1.20
31.10.2016	74.3	38.6	28.6	15.44	0.89
01.11.2016	72.1	32.1	19.6	13.2	0.97
07.11.2016	87.0	40.5	22.3	9.7	1.11
08.11.2016	67.4	37.6	15.6	10.4	0.87
14.11.2016	89.7	32.1	20.7	13.2	0.60
15.11.2016	90.2	53.1	36.5	11.6	0.92
21.11.2016	78.5	47.6	29.5	10.5	1.87
22.11.2016	69.5	37.6	18.5	13.2	1.01
28.11.2016	73.2	32.1	23.4	8.7	0.76
29.11.2016	77.6	39.7	38.7	9.9	0.98

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1610/1376-1392
		Reporting Date:	08/12/2016
		Ref. No:	NIL
		Monitoring Period:	October -November 2016
		Equipment Used:	RDS & FPS with all accessories
Sample Description:	Ambient Air Quality Monitoring	Protocol Used:	CPCB Guidelines/IS-5182
Sample Collected by :	Vardan Envirolab Team	Parameter Required	As Per TOR Latter
Location:	Near Village – Barwat Sena (A7)		

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
05.10.2016	89.3	48.6	32.1	14.2	1.11
06.10.2016	80.6	41.2	29.6	10.9	1.06
12.10.2016	78.4	39.7	35.4	13.2	0.78
13.10.2016	80.2	45.9	28.0	9.9	0.98
19.10.2016	89.5	38.6	19.9	11.3	1.33
20.10.2016	78.5	34.2	31.2	16.5	1.98
26.10.2016	80.2	45.6	35.4	12.3	1.04
27.10.2016	94.3	54.3	39.7	10.7	0.95
02.11.2016	91.1	51.1	42.3	14.3	0.91
03.11.2016	78.3	37.5	40.5	12.9	1.04
09.11.2016	68.0	31.2	37.6	10.6	1.34
10.11.2016	77.3	40.3	48.6	8.7	1.22
16.11.2016	71.3	37.6	32.1	11.2	0.78
17.11.2016	79.5	32.1	29.7	15.4	0.89
23.11.2016	82.3	46.5	23.1	10.5	0.97
24.11.2016	79.0	40.3	19.8	13.2	1.03
30.11.2016	74.3	34.2	27.6	15.4	1.22

Mr. HIMANSHU ADHIKARI
M.Sc. Env. Science

VARDAN ENVIRO LAB GURGAON
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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1610/1393-1409
		Reporting Date:	08/12/2016
		Ref. No:	NIL
		Monitoring Period:	October -November 2016
		Equipment Used:	RDS & FPS with all accessories
Sample Description:	Ambient Air Quality Monitoring	Protocol Used:	CPCB Guidelines/IS-5182
Sample Collected by :	Vardan Envirolab Team	Parameter Required	As Per TOR Latter
Location:	Near Village-Senduria (A8)		

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	CO (mg/m^3)
05.10.2016	79.8	49.8	29.0	10.8	1.22
06.10.2016	54.9	32.1	23.3	12.3	0.98
12.10.2016	76.5	39.8	32.1	8.7	1.65
13.10.2016	65.4	35.4	19.7	9.5	1.11
19.10.2016	78.3	40.3	34.3	12.4	0.87
20.10.2016	84.3	45.9	18.6	14.3	1.43
26.10.2016	89.6	49.2	32.4	15.0	1.04
27.10.2016	65.4	32.1	19.8	9.8	0.78
02.11.2016	78.3	37.6	26.5	8.6	0.80
03.11.2016	80.5	39.5	21.3	10.5	1.03
09.11.2016	76.4	33.2	19.8	6.8	1.22
10.11.2016	73.2	40.9	27.6	10.6	0.56
16.11.2016	70.3	38.0	29.6	10.6	0.78
17.11.2016	67.4	32.1	35.4	13.2	0.89
23.11.2016	89.4	48.7	32.1	10.6	0.91
24.11.2016	77.2	32.1	39.8	14.3	1.03
30.11.2016	86.3	43.2	22.5	10.5	1.43

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Test Certificate

Sample Number:	VEL/ MSI /W/01	Report No.:	VEL/MSI/SW/1603/135
Issued to:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/03/2016
		Receipt Date:	16/03/2016
Sample Description:	Surface Water	Sampling Date:	15/03/2016
Sampling Location:	Near Village-Raghunathpur (SW 1)	Sampling Type:	Composite
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012,APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+B	7.93	--
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen
3.	Turbidity	APHA 22nd Edition, 2130 B	4.6	NTU
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--
5.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	204.54	mg/l
6.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	39.88	mg/l
7.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	210.00	mg/l
8.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	45.02	mg/l
9.	Residual free Chlorine	APHA 22nd Edition, 4500 Cl-B	BDL(DL 0.20mg/l)	mg/l
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN-D	BDL(DL 0.02 mg/l)	mg/l
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	25.52	mg/l
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	318.00	mg/l
13.	Total Suspended solids	APHA 22nd Edition,2540 D	25.00	mg/l
14.	Dissolved Oxygen	APHA 22nd Edition,4500	5.8	mg/l
15.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	22.05	mg/l
16.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.50	mg/l
17.	BOD (3 Days at 27°C)	IS 3025,P-44,1999 (R- 2003)	6.80	mg/l
18.	COD	APHA 22nd Edition, 5220 B	18.75	mg/l

Ms. NUPUR SHARMA
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Test Certificate

Sample No.: VEL/ASIPL/W/01			Report No.: VEL/MSI/SW/1603/135	
S. No.	Parameter	Test-Method	Result	Unit
19.	Conductivity	APHA 22nd Edition, 2510 B	0.532	mS/cm
20.	Nitrate as NO_3	IS 3025 (P-34) 1988	7.98	mg/l
21.	Sodium as Na	APHA 22nd Edition,3500 Na B	18	mg/l
22.	Potassium as K	APHA 22nd Edition, 3500 K B	1	mg/l
23.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.27	mg/l
24.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l
25.	Boron	APHA 22nd Edition, 4500B C	BDL(DL 0.02 mg/l)	mg/l
26.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l
27.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l
28.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l
29.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l
30.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.42	mg/l
31.	Copper as Cu	APHA 22nd Edition, 3111 B	BDL(DL 0.02 mg/l)	mg/l
32.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l
33.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l
34.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	348	MPN/100ml
35.	Fecal Coliform	IS 1622,1981(Reaffirmed 2003)	221	MPN/100ml

Note: -*BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/ MSI /W/02	Report No.:	VEL/MSI/SW/1603/136
Issued to:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/03/2016
		Receipt Date:	16/03/2016
Sample Description:	Surface Water	Sampling Date:	15/03/2016
Sampling Location:	Near Village-Barwat Sena (SW 2)	Sampling Type:	Composite
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012,APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+B	8.32	--
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen
3.	Turbidity	APHA 22nd Edition, 2130 B	3.0	NTU
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--
5.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	245.61	mg/l
6.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	68.65	mg/l
7.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	216.00	mg/l
8.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	48.60	mg/l
9.	Residual free Chlorine	APHA 22nd Edition, 4500 Cl-B	BDL(DL 0.20mg/l)	mg/l
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN-D	BDL(DL 0.02 mg/l)	mg/l
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	18.06	mg/l
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	345.00	mg/l
13.	Total Suspended solids	APHA 22nd Edition,2540 D	30.00	mg/l
14.	Dissolved Oxygen	APHA 22nd Edition,4500	6.3	mg/l
15.	Sulphate as SO^4	APHA 22nd Edition, 4500 E	32.25	mg/l
16.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.46	mg/l
17.	BOD (3 Days at 27°C)	IS 3025,P-44,1999 (R- 2003)	9.32	mg/l
18.	COD	APHA 22nd Edition, 5220 B	21.07	mg/l

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Test Certificate

Sample No.: VEL/ASIPL/W/02			Report No.: VEL/MSI/SW/1603/136	
S. No.	Parameter	Test-Method	Result	Unit
19.	Conductivity	APHA 22nd Edition, 2510 B	0.575	mS/cm
20.	Nitrate as NO_3	IS 3025 (P-34) 1988	13.89	mg/l
21.	Sodium as Na	APHA 22nd Edition,3500 Na B	15	mg/l
22.	Potassium as K	APHA 22nd Edition, 3500 K B	2	mg/l
23.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.23	mg/l
24.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l
25.	Boron	APHA 22nd Edition, 4500B C	BDL(DL 0.02 mg/l)	mg/l
26.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l
27.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l
28.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l
29.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l
30.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.65	mg/l
31.	Copper as Cu	APHA 22nd Edition, 3111 B	0.28	mg/l
32.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l
33.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l
34.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	400	MPN/100ml
35.	Fecal Coliform	IS 1622,1981(Reaffirmed 2003)	330	MPN/100ml

Note: -*BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/ MSI /W/03	Report No.:	VEL/MSI/SW/1603/137
Issued to:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol} Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/03/2016
		Receipt Date:	16/03/2016
Sample Description:	Surface Water	Sampling Date:	15/03/2016
Sampling Location:	Near Village-Sonbarsa (SW 3)	Sampling Type:	Composite
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012,APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+B	7.32	--
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen
3.	Turbidity	APHA 22nd Edition, 2130 B	4.0	NTU
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--
5.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	234.09	mg/l
6.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	56.05	mg/l
7.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	238.00	mg/l
8.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	50.25	mg/l
9.	Residual free Chlorine	APHA 22nd Edition, 4500 Cl-B	BDL(DL 0.20mg/l)	mg/l
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN-D	BDL(DL 0.02 mg/l)	mg/l
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	22.90	mg/l
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	364.00	mg/l
13.	Total Suspended solids	APHA 22nd Edition,2540 D	49.00	mg/l
14.	Dissolved Oxygen	APHA 22nd Edition,4500	5.6	mg/l
15.	Sulphate as SO^4	APHA 22nd Edition, 4500 E	36.05	mg/l
16.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.48	mg/l
17.	BOD (3 Days at 27°C)	IS 3025,P-44,1999 (R- 2003)	8.04	mg/l
18.	COD	APHA 22nd Edition, 5220 B	34.06	mg/l

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Test Certificate

Sample No.: VEL/ASIPL/W/03 | Report No.: VEL/MSI/SW/1603/137

S. No.	Parameter	Test-Method	Result	Unit
19.	Conductivity	APHA 22nd Edition, 2510 B	0.609	mS/cm
20.	Nitrate as NO_3	IS 3025 (P-34) 1988	6.65	mg/l
21.	Sodium as Na	APHA 22nd Edition,3500 Na B	30	mg/l
22.	Potassium as K	APHA 22nd Edition, 3500 K B	4	mg/l
23.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.18	mg/l
24.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l
25.	Boron	APHA 22nd Edition, 4500B C	BDL(DL 0.02 mg/l)	mg/l
26.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l
27.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l
28.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l
29.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l
30.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.67	mg/l
31.	Copper as Cu	APHA 22nd Edition, 3111 B	0.10	mg/l
32.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l
33.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l
34.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	426	MPN/100ml
35.	Fecal Coliform	IS 1622,1981(Reaffirmed 2003)	260	MPN/100ml

Note: -*BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/ MSI /W/09	Report No.:	VEL/MSI/SW/1610/77
Issued to:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Surface Water	Sampling Date:	15/11/2016
Sampling Location:	Near Village-Raghunathpur (SW 1)	Sampling Type:	Composite
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012,APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+B	8.09	--
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen
3.	Turbidity	APHA 22nd Edition, 2130 B	3.0	NTU
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--
5.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	216.35	mg/l
6.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	45.63	mg/l
7.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	198.00	mg/l
8.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	50.05	mg/l
9.	Residual free Chlorine	APHA 22nd Edition, 4500 Cl-B	BDL(DL 0.20mg/l)	mg/l
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN-D	BDL(DL 0.02 mg/l)	mg/l
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	24.91	mg/l
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	350.00	mg/l
13.	Total Suspended solids	APHA 22nd Edition,2540 D	32.00	mg/l
14.	Dissolved Oxygen	APHA 22nd Edition,4500	5.9	mg/l
15.	Sulphate as SO^4	APHA 22nd Edition, 4500 E	39.75	mg/l
16.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.59	mg/l
17.	BOD (3 Days at 27°C)	IS 3025,P-44,1999 (R- 2003)	8.7	mg/l
18.	COD	APHA 22nd Edition, 5220 B	25.07	mg/l

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Test Certificate

Sample No.: **VEL/ MSI /W/09** | Report No.: **VEL/MSI/SW/1610/77**

S. No.	Parameter	Test-Method	Result	Unit
19.	Conductivity	APHA 22nd Edition, 2510 B	0.584	mS/cm
20.	Nitrate as NO_3	IS 3025 (P-34) 1988	14.6	mg/l
21.	Sodium as Na	APHA 22nd Edition,3500 Na B	32	mg/l
22.	Potassium as K	APHA 22nd Edition, 3500 K B	2	mg/l
23.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.29	mg/l
24.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l
25.	Boron	APHA 22nd Edition, 4500B C	BDL(DL 0.02 mg/l)	mg/l
26.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l
27.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l
28.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l
29.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l
30.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.56	mg/l
31.	Copper as Cu	APHA 22nd Edition, 3111 B	0.09	mg/l
32.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l
33.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l
34.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	320	MPN/100ml
35.	Fecal Coliform	IS 1622,1981(Reaffirmed 2003)	270	MPN/100ml

Note: -*BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/ MSI /W/10	Report No.:	VEL/MSI/SW/1610/78
Issued to:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Surface Water	Sampling Date:	15/11/2016
Sampling Location:	Near Village-Barwat Sena (SW 2)	Sampling Type:	Composite
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012,APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+B	7.97	--
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen
3.	Turbidity	APHA 22nd Edition, 2130 B	3.5	NTU
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--
5.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	234.17	mg/l
6.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	53.99	mg/l
7.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	230.00	mg/l
8.	Chloride as Cl	APHA 22nd Edition, 4500-Cl^- B	38.17	mg/l
9.	Residual free Chlorine	APHA 22nd Edition, 4500 Cl-B	BDL(DL 0.20mg/l)	mg/l
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN-D	BDL(DL 0.02 mg/l)	mg/l
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	24.17	mg/l
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	329.00	mg/l
13.	Total Suspended solids	APHA 22nd Edition,2540 D	38.00	mg/l
14.	Dissolved Oxygen	APHA 22nd Edition,4500	6.1	mg/l
15.	Sulphate as SO^4	APHA 22nd Edition, 4500 E	23.22	mg/l
16.	Fluoride as F	APHA 22nd Edition, 4500-F^- D	0.63	mg/l
17.	BOD (3 Days at 27°C)	IS 3025,P-44,1999 (R- 2003)	7.5	mg/l
18.	COD	APHA 22nd Edition, 5220 B	32.5	mg/l

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Test Certificate

Sample No.: **VEL/ MSI /W/10** | Report No.: **VEL/MSI/SW/1610/78**

S. No.	Parameter	Test-Method	Result	Unit
19.	Conductivity	APHA 22nd Edition, 2510 B	0.549	mS/cm
20.	Nitrate as NO_3	IS 3025 (P-34) 1988	10.05	mg/l
21.	Sodium as Na	APHA 22nd Edition,3500 Na B	22	mg/l
22.	Potassium as K	APHA 22nd Edition, 3500 K B	1	mg/l
23.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.26	mg/l
24.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l
25.	Boron	APHA 22nd Edition, 4500B C	BDL(DL 0.02 mg/l)	mg/l
26.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l
27.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l
28.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l
29.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l
30.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.43	mg/l
31.	Copper as Cu	APHA 22nd Edition, 3111 B	0.12	mg/l
32.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l
33.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l
34.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	426	MPN/100ml
35.	Fecal Coliform	IS 1622,1981(Reaffirmed 2003)	253	MPN/100ml

Note: -*BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/ MSI /W/03	Report No.:	VEL/MSI/SW/1610/79
Issued to:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Surface Water	Sampling Date:	15/11/2016
Sampling Location:	Near Village-Sonbarsa (SW 3)	Sampling Type:	Composite
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012,APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+B	7.64	--
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen
3.	Turbidity	APHA 22nd Edition, 2130 B	5.0	NTU
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--
5.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	241.44	mg/l
6.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	49.04	mg/l
7.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	254.00	mg/l
8.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	43.11	mg/l
9.	Residual free Chlorine	APHA 22nd Edition, 4500 Cl-B	BDL(DL 0.20mg/l)	mg/l
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN-D	BDL(DL 0.02 mg/l)	mg/l
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	28.94	mg/l
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	345.00	mg/l
13.	Total Suspended solids	APHA 22nd Edition,2540 D	40.00	mg/l
14.	Dissolved Oxygen	APHA 22nd Edition,4500	5.8	mg/l
15.	Sulphate as SO^4	APHA 22nd Edition, 4500 E	19.87	mg/l
16.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.4	mg/l
17.	BOD (3 Days at 27°C)	IS 3025,P-44,1999 (R- 2003)	10.94	mg/l
18.	COD	APHA 22nd Edition, 5220 B	39.05	mg/l

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Test Certificate

Sample No.: **VEL/ MSI /W/03** Report No.: **VEL/MSI/SW/1610/79**

S. No.	Parameter	Test-Method	Result	Unit
19.	Conductivity	APHA 22nd Edition, 2510 B	0.578	mS/cm
20.	Nitrate as NO_3	IS 3025 (P-34) 1988	8.95	mg/l
21.	Sodium as Na	APHA 22nd Edition,3500 Na B	27	mg/l
22.	Potassium as K	APHA 22nd Edition, 3500 K B	2	mg/l
23.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.19	mg/l
24.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l
25.	Boron	APHA 22nd Edition, 4500B C	BDL(DL 0.02 mg/l)	mg/l
26.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l
27.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l
28.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l
29.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l
30.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.59	mg/l
31.	Copper as Cu	APHA 22nd Edition, 3111 B	0.08	mg/l
32.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l
33.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l
34.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	390	MPN/100ml
35.	Fecal Coliform	IS 1622,1981(Reaffirmed 2003)	212	MPN/100ml

Note: -*BDL-Below Detection Limit, *DL- Detection Limit

Ms. NUPUR SHARMA
M.Sc. Env. Science

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Test Certificate

Sample Number:	VEL/MSI/W/01	Report No.:	VEL/MSI/W/1603/88
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
Sample Description:	Groundwater Sample	Receipt Date:	15/03/2016
Sampling Location:	Near Project Site (GW1)	Sampling Date:	15/03/2016
Sample Collected by:	Vardan EnviroLab Team	Sampling Type:	Grab
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Preservation:	Refrigerated
		Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.78	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	392.75	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	79.05	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	418.00	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	87.27	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	47.51	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	546.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	16.90	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.99	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	19.78	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.35	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.83	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/01 | Report No.: VEL/MSI/W/1603/88

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.913	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.76	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.32	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/02	Report No.:	VEL/MSI/W/1603/89
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/03/2016
Sampling Location:	Village-Rajabhaur (GW2)	Sampling Type:	Grab
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.45	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	405.06	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	98.09	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	376.00	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	169.5	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	38.96	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	673.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	39.05	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	1.07	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	12.02	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.38	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 D	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.22	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/02 — Report No.: VEL/MSI/W/1603/89

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	1.124	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL (DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.82	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.29	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/03	Report No.:	VEL/MSI/W/1603/90
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/03/2016
Sampling Location:	Near Village-Ganauli (GW3)	Sampling Type:	Grab
Sample Collected by:	Vardan Enviro Lab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.59	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	329.05	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	69.27	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	276.00	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	150.06	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	37.96	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	557.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	29.60	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.89	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	9.03	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.30	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.69	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/03 — Report No.: VEL/MSI/W/1603/90

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.931	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	1.05	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.35	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/04	Report No.:	VEL/MSI/W/1603/91
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/03/2016
Sampling Location:	Near Village-Shikarpur (GW4)	Sampling Type:	Grab
Sample Collected by:	Vardan Enviro Lab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.67	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	265.98	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	70.44	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	290.00	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	74.06	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	21.93	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	459.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	32.77	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	1.05	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	10.05	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.33	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.768	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/04 — Report No.: VEL/MSI/W/1603/91

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.798	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.78	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.20	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/05	Report No.:	VEL/MSI/W/1603/92
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/03/2016
Sampling Location:	Near Village-Karamtota (GW5)	Sampling Type:	Grab
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.4	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	290.93	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	87.07	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	365.00	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl^- B	92.05	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN^- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	17.91	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	563.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	24.65	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F^- D	0.89	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	23.06	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.37	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.78	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/05			Report No.: VEL/MSI/W/1603/92			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.939	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.94	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.13	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/06	Report No.:	VEL/MSI/W/1603/93
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/03/2016
Sampling Location:	Near Village-Jawkatia (GW6)	Sampling Type:	Grab
Sample Collected by:	Vardan Enviro Lab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.83	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	276.15	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	55.42	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	328.0	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	89.16	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	33.50	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	495.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	19.07	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.84	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	18.06	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.29	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.93	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/06			Report No.: VEL/MSI/W/1603/93			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.828	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.02 mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	0.74	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.38	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/07	Report No.:	VEL/MSI/W/1603/94
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/03/2016
Sampling Location:	Town-Barwat Sena (GW7)	Sampling Type:	Grab
Sample Collected by:	Vardan Enviro Lab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 ^{0}C)	APHA 22nd Edition, 4500-H$^+$ B	7.56	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	369.87	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	68.03	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	295	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl$^-$ B	61.11	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN$^-$ D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	48.63	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	409.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	22.08	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F$^-$ D	0.97	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	15.48	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.35	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.77	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: **VEL/MSI/W/07** | Report No.: **VEL/MSI/W/1603/94**

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.684	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.02 mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	1.08	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.16	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275
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Test Certificate

Sample Number:	VEL/MSI/W/08	Report No.:	VEL/MSI/W/1603/95
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/03/2016
Sampling Location:	Near Village- Senduria (GW8)	Sampling Type:	Grab
Sample Collected by:	Vardan Enviro Lab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.56	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	305.04	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	49.77	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	380.00	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl^- B	34.95	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN^- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	43.95	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	449.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	14.09	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F^- D	1.09	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	20.6	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.32	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.56	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/08 — Report No.: VEL/MSI/W/1603/95

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.748	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.02 mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	0.75	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.19	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/01	Report No.:	VEL/MSI/W/1610/69
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/11/2016
Sampling Location:	Near Project Site (GW1)	Sampling Type:	Grab
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.65	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	409.17	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	87.04	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	438	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	95.03	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	46.66	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	617	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	29.01	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.98	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	20.09	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.37	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.76	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/01			Report No.: VEL/MSI/W/1610/69			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	1.029	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.89	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.34	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/02	Report No.:	VEL/MSI/W/1610/70
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/11/2016
Sampling Location:	Village-Rajabhaur (GW2)	Sampling Type:	Grab
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.46	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	432.55	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	103.32	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	398	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	178.92	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	42.47	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	689	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	34.09	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	1.03	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	15.08	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.38	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.43	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/02			Report No.: VEL/MSI/W/1610/70			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	1.15	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.9	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.41	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/03	Report No.:	VEL/MSI/W/1610/71
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/11/2016
Sampling Location:	Near Village-Ganauli (GW3)	Sampling Type:	Grab
Sample Collected by:	Vardan Enviro Lab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.49	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	345.49	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	80.44	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	307	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	158.92	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	35.18	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	569	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	27.44	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.92	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	12.44	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.32	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.77	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/03			Report No.: VEL/MSI/W/1610/71			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.947	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.98	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.30	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/04	Report No.:	VEL/MSI/W/1610/72
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/11/2016
Sampling Location:	Near Village-Shikarpur (GW4)	Sampling Type:	Grab
Sample Collected by:	Vardan Enviro Lab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.77	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	316.73	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	76.03	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	288	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	85.64	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	30.87	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	479	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	38.06	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	1.02	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	12.64	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.4	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.78	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: **VEL/MSI/W/04** Report No.: **VEL/MSI/W/1610/72**

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.801	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.65	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.22	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/05	Report No.:	VEL/MSI/W/1610/73
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/11/2016
Sampling Location:	Near Village-Karamtota (GW5)	Sampling Type:	Grab
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.4	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	298.43	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	91.54	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	342	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	98.15	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	17.02	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	553	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	31.08	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.86	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	19.19	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.3	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.59	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/05			Report No.: VEL/MSI/W/1610/73			
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.92	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.84	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.18	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/06	Report No.:	VEL/MSI/W/1610/74
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/11/2016
Sampling Location:	Near Village-Jawkatia (GW6)	Sampling Type:	Grab
Sample Collected by:	Vardan Enviro Lab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.79	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	310.33	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	69.03	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	329	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	101.05	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	33.56	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	518	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	25.22	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.79	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	14.02	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.34	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.80	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: **VEL/MSI/W/06** | Report No.: **VEL/MSI/W/1610/74**

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.865	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.69	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.30	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/07	Report No.:	VEL/MSI/W/1610/75
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/11/2016
Sampling Location:	Town-Barwat Sena (GW7)	Sampling Type:	Grab
Sample Collected by:	Vardan Enviro Lab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.56	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	364.09	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	73.19	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	315	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	67.04	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	44.1	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	438	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	19.4	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.88	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	11.04	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.36	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.78	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
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Test Certificate

Sample No.: **VEL/MSI/W/07** | Report No.: **VEL/MSI/W/1610/75**

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.732	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.93	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.34	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/W/08	Report No.:	VEL/MSI/W/1610/76
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	21/11/2016
		Receipt Date:	16/11/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/11/2016
Sampling Location:	Near Village- Senduria (GW8)	Sampling Type:	Grab
Sample Collected by:	Vardan Enviro Lab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.48	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	287.17	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	46.09	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	367.00	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl^- B	39.08	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN^- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	41.84	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	423.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	11.5	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F^- D	1.08	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	9.83	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.33	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.49	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/08 | Report No.: VEL/MSI/W/1610/76

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2510 B	0.709	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.67	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.10	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/S/01	Report No.:	VEL/MSI/S/1603/59
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	SOIL	Sampling Date:	15/03/2016
Sampling Location:	Project Site (S1)	Type of Sampling:	Composite
Sample Collected by	Vardan Enviro Lab Team	Sampling Quantity:	2.0 Kg
Sampling & Analysis Protocol:	IS 2720 & USDA	Depth of Sampling:	30 cm
		Packing Status:	Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26.1987)	7.68	--
2.	Conductivity	IS:14767-2000 Reaffirmed 2006	0.256	mS/cm
3.	Soil Texture	USDA Method. 1968	Sandy	--
4.	Color	USDA Method. 1968	Brownish White	--
5.	Water holding capacity	USDA Method. 1968	29.10	%
6.	Bulk density	USDA Method. 1968	1.30	gm/cc
7.	Chloride as Cl	USDA Method. 1968	38.65	mg/100gm
8.	Calcium as Ca	USDA Method. 1968	36.14	mg/100gm
9.	Sodium as Na	USDA Method. 1968	43.51	mg/100gm
10.	Potassium as K	USDA Method. 1968	78.00	kg/hec.
11.	Organic Matter	IS:2720 (P-22. 1972)	0.51	%
12.	Magnesium as Mg	USDA Method. 1968	29.20	mg/100gm
13.	Available Nitrogen as N	IS:14684. 1999	210.00	kg./hec.
14.	Available Phosphorus	USDA, APHA-4500PC	38.50	kg./hec.
15.	Zinc as Zn	APHA-3030D, APHA-3111B	4.10	mg/100gm
16.	Manganese as Mn	APHA-3030D, APHA-3111B	0.90	mg/100gm
17.	Chromium as Cr	APHA-3030D, APHA-3111B	0.74	mg/100gm
18.	Lead as Pb	APHA-3030D, APHA-3111B	0.48	mg/100gm
19.	Cadmium as Cd	APHA-3030D, APHA-3111B	0.73	mg/100gm
20.	Copper as Cu	APHA-3030D, APHA-3111B	1.26	mg/100gm

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Test Certificate

Sample Number:	VEL/MSI/S/02	Report No.:	VEL/MSI/S/1603/60
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	SOIL	Sampling Date:	15/03/2016
Sampling Location:	Village-Raghunathpur (S2)	Type of Sampling:	Composite
Sample Collected by	Vardan Enviro Lab Team	Sampling Quantity:	2.0 Kg
Sampling & Analysis Protocol:	IS 2720 & USDA	Depth of Sampling:	30 cm
		Packing Status:	Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
1.	pH (at 25 ^{0}C)	IS : 2720 (P-26.1987)	6.99	--
2.	Conductivity	IS:14767-2000 Reaffirmed 2006	0.380	mS/cm
3.	Soil Texture	USDA Method. 1968	Silty Loam	--
4.	Color	USDA Method. 1968	Yellowish Brown	--
5.	Water holding capacity	USDA Method. 1968	27.25	%
6.	Bulk density	USDA Method. 1968	1.18	gm/cc
7.	Chloride as Cl	USDA Method. 1968	41.36	mg/100gm
8.	Calcium as Ca	USDA Method. 1968	48.02	mg/100gm
9.	Sodium as Na	USDA Method. 1968	27.19	mg/100gm
10.	Potassium as K	USDA Method. 1968	89.00	kg/hec.
11.	Organic Matter	IS:2720 (P-22. 1972)	0.57	%
12.	Magnesium as Mg	USDA Method. 1968	12.36	mg/100gm
13.	Available Nitrogen as N	IS:14684. 1999	235.50	kg./hec.
14.	Available Phosphorus	USDA. APHA-4500PC	43.25	kg./hec.
15.	Zinc as Zn	APHA-3030D. APHA-3111B	5.16	mg/100gm
16.	Manganese as Mn	APHA-3030D. APHA-3111B	1.35	mg/100gm
17.	Chromium as Cr	APHA-3030D. APHA-3111B	0.68	mg/100gm
18.	Lead as Pb	APHA-3030D. APHA-3111B	0.30	mg/100gm
19.	Cadmium as Cd	APHA-3030D. APHA-3111B	0.49	mg/100gm
20.	Copper as Cu	APHA-3030D. APHA-3111B	2.69	mg/100gm

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Test Certificate

Sample Number:	VEL/MSI/S/03	Report No.:	VEL/MSI/S/1603/61
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	SOIL	Sampling Date:	15/03/2016
Sampling Location:	Near Village-Tola Loharpatti (S3)	Type of Sampling:	Composite
Sample Collected by	Vardan Enviro Lab Team	Sampling Quantity:	2.0 Kg
Sampling & Analysis Protocol:	IS 2720 & USDA	Depth of Sampling:	30 cm
		Packing Status:	Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
1.	pH (at 25 ^{0}C)	IS : 2720 (P-26.1987)	7.25	--
2.	Conductivity	IS:14767-2000 Reaffirmed 2006	0.432	mS/cm
3.	Soil Texture	USDA Method. 1968	Silty Loam	--
4.	Color	USDA Method. 1968	Yellowish Brown	--
5.	Water holding capacity	USDA Method. 1968	23.10	%
6.	Bulk density	USDA Method. 1968	1.36	gm/cc
7.	Chloride as Cl	USDA Method. 1968	19.54	mg/100gm
8.	Calcium as Ca	USDA Method. 1968	39.50	mg/100gm
9.	Sodium as Na	USDA Method. 1968	49.57	mg/100gm
10.	Potassium as K	USDA Method. 1968	91.20	kg/hec.
11.	Organic Matter	IS:2720 (P-22. 1972)	0.49	%
12.	Magnesium as Mg	USDA Method. 1968	12.36	mg/100gm
13.	Available Nitrogen as N	IS:14684. 1999	230.00	kg./hec.
14.	Available Phosphorus	USDA. APHA-4500PC	40.50	kg./hec.
15.	Zinc as Zn	APHA-3030D. APHA-3111B	6.30	mg/100gm
16.	Manganese as Mn	APHA-3030D. APHA-3111B	1.35	mg/100gm
17.	Chromium as Cr	APHA-3030D. APHA-3111B	0.89	mg/100gm
18.	Lead as Pb	APHA-3030D. APHA-3111B	0.47	mg/100gm
19.	Cadmium as Cd	APHA-3030D. APHA-3111B	0.82	mg/100gm
20.	Copper as Cu	APHA-3030D. APHA-3111B	2.94	mg/100gm

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Test Certificate

Sample Number:	VEL/MSI/S/04	Report No.:	VEL/MSI/S/1603/62
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	SOIL	Sampling Date:	15/03/2016
Sampling Location:	Near Village-Pipra Pakri (S4)	Type of Sampling:	Composite
Sample Collected by	Vardan Enviro Lab Team	Sampling Quantity:	2.0 Kg
Sampling & Analysis Protocol:	IS 2720 & USDA	Depth of Sampling:	30 cm
		Packing Status:	Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26.1987)	7.59	--
2.	Conductivity	IS:14767-2000 Reaffirmed 2006	0.359	mS/cm
3.	Soil Texture	USDA Method. 1968	Silty Loam	--
4.	Color	USDA Method. 1968	Yellowish Brown	--
5.	Water holding capacity	USDA Method. 1968	25.01	%
6.	Bulk density	USDA Method. 1968	1.23	gm/cc
7.	Chloride as Cl	USDA Method. 1968	39.50	mg/100gm
8.	Calcium as Ca	USDA Method. 1968	58.29	mg/100gm
9.	Sodium as Na	USDA Method. 1968	21.62	mg/100gm
10.	Potassium as K	USDA Method. 1968	86.24	kg/hec.
11.	Organic Matter	IS:2720 (P-22. 1972)	0.67	%
12.	Magnesium as Mg	USDA Method. 1968	12.24	mg/100gm
13.	Available Nitrogen as N	IS:14684. 1999	260.00	kg./hec.
14.	Available Phosphorus	USDA. APHA-4500PC	46.20	kg./hec.
15.	Zinc as Zn	APHA-3030D. APHA-3111B	5.26	mg/100gm
16.	Manganese as Mn	APHA-3030D. APHA-3111B	2.31	mg/100gm
17.	Chromium as Cr	APHA-3030D. APHA-3111B	0.93	mg/100gm
18.	Lead as Pb	APHA-3030D. APHA-3111B	0.35	mg/100gm
19.	Cadmium as Cd	APHA-3030D. APHA-3111B	0.71	mg/100gm
20.	Copper as Cu	APHA-3030D. APHA-3111B	3.10	mg/100gm

Mrs. DEEPIKA DHAWAN
M.Sc. Env. Science

VARDAN ENVIRO LAB GAUTAM BUDH NAGAR CHAUMUHAN AUTHORISED SIGNATORY

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Vardan EnviroLab

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Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
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Test Certificate

Sample Number:	VEL/MSI/S/01	Report No.:	VEL/MSI/S/1610/37
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016
Sample Description:	SOIL	Sampling Date:	10/10/2016
Sampling Location:	Project Site (S1)	Type of Sampling:	Composite
Sample Collected by	Vardan Enviro Lab Team	Sampling Quantity:	2.0 Kg
Sampling & Analysis Protocol:	IS 2720 & USDA	Depth of Sampling:	30 cm
		Packing Status:	Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
1.	pH (at 25 ^{0}C)	IS : 2720 (P-26.1987)	8.01	--
2.	Conductivity	IS:14767-2000 Reaffirmed 2006	0.276	mS/cm
3.	Soil Texture	USDA Method, 1968	Sandy Loam	--
4.	Color	USDA Method, 1968	Brownish White	--
5.	Water holding capacity	USDA Method, 1968	27.65	%
6.	Bulk density	USDA Method, 1968	1.28	gm/cc
7.	Chloride as Cl	USDA Method, 1968	47.73	mg/100gm
8.	Calcium as Ca	USDA Method, 1968	42.9	mg/100gm
9.	Sodium as Na	USDA Method, 1968	53.17	mg/100gm
10.	Potassium as K	USDA Method, 1968	89.03	kg/hec.
11.	Organic Matter	IS:2720 (P-22, 1972)	0.48	%
12.	Magnesium as Mg	USDA Method, 1968	21.09	mg/100gm
13.	Available Nitrogen as N	IS:14684, 1999	232.06	kg./hec.
14.	Available Phosphorus	USDA, APHA-4500PC	28.75	kg./hec.
15.	Zinc as Zn	APHA-3030D, APHA-3111B	3.08	mg/100gm
16.	Manganese as Mn	APHA-3030D, APHA-3111B	1.98	mg/100gm
17.	Chromium as Cr	APHA-3030D, APHA-3111B	0.77	mg/100gm
18.	Lead as Pb	APHA-3030D, APHA-3111B	0.32	mg/100gm
19.	Cadmium as Cd	APHA-3030D, APHA-3111B	0.54	mg/100gm
20.	Copper as Cu	APHA-3030D, APHA-3111B	2.88	mg/100gm

Mrs. DEEPIKA DHAWAN
M.Sc. Env. Science

VARDAN ENVIRO LAB GURGAON AUTHORISED SIGNATORY

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Test Certificate

Sample Number:	VEL/MSI/S/02	Report No.:	VEL/MSI/S/1610/38
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016
Sample Description:	SOIL	Sampling Date:	10/10/2016
Sampling Location:	Village-Raghunathpur (S2)	Type of Sampling:	Composite
Sample Collected by	Vardan Enviro Lab Team	Sampling Quantity:	2.0 Kg
Sampling & Analysis Protocol:	IS 2720 & USDA	Depth of Sampling:	30 cm
		Packing Status:	Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
1.	pH (at 25 ^{0}C)	IS : 2720 (P-26,1987)	7.87	--
2.	Conductivity	IS:14767-2000 Reaffirmed 2006	0.397	mS/cm
3.	Soil Texture	USDA Method, 1968	Silty Loam	--
4.	Color	USDA Method, 1968	Yellowish Brown	--
5.	Water holding capacity	USDA Method, 1968	29.88	%
6.	Bulk density	USDA Method, 1968	1.35	gm/cc
7.	Chloride as Cl	USDA Method, 1968	54.32	mg/100gm
8.	Calcium as Ca	USDA Method, 1968	39.04	mg/100gm
9.	Sodium as Na	USDA Method, 1968	35.26	mg/100gm
10.	Potassium as K	USDA Method, 1968	94.3	kg/hec.
11.	Organic Matter	IS:2720 (P-22, 1972)	0.50	%
12.	Magnesium as Mg	USDA Method, 1968	16.55	mg/100gm
13.	Available Nitrogen as N	IS:14684, 1999	247.42	kg./hec.
14.	Available Phosphorus	USDA, APHA-4500PC	38.08	kg./hec.
15.	Zinc as Zn	APHA-3030D, APHA-3111B	4.44	mg/100gm
16.	Manganese as Mn	APHA-3030D, APHA-3111B	2.98	mg/100gm
17.	Chromium as Cr	APHA-3030D, APHA-3111B	0.62	mg/100gm
18.	Lead as Pb	APHA-3030D, APHA-3111B	0.27	mg/100gm
19.	Cadmium as Cd	APHA-3030D, APHA-3111B	0.32	mg/100gm
20.	Copper as Cu	APHA-3030D, APHA-3111B	3.09	mg/100gm

Mrs. DEEPIKA DHAWAN
M.Sc. Env. Science

VARDAN ENVIRO LAB GURGAON
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Test Certificate

Sample Number:	VEL/MSI/S/03	Report No.:	VEL/MSI/S/1610/39
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016
Sample Description:	SOIL	Sampling Date:	10/10/2016
Sampling Location:	Near Village-Tola Loharpatti (S3)	Type of Sampling:	Composite
Sample Collected by	Vardan Enviro Lab Team	Sampling Quantity:	2.0 Kg
Sampling & Analysis Protocol:	IS 2720 & USDA	Depth of Sampling:	30 cm
		Packing Status:	Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
1.	pH (at 25 ^{0}C)	IS : 2720 (P-26,1987)	7.55	---
2.	Conductivity	IS:14767-2000 Reaffirmed 2006	0.454	mS/cm
3.	Soil Texture	USDA Method, 1968	Silty Loam	--
4.	Color	USDA Method, 1968	Yellowish Brown	--
5.	Water holding capacity	USDA Method, 1968	32.1	%
6.	Bulk density	USDA Method, 1968	1.32	gm/cc
7.	Chloride as Cl	USDA Method, 1968	28.66	mg/100gm
8.	Calcium as Ca	USDA Method, 1968	48.11	mg/100gm
9.	Sodium as Na	USDA Method, 1968	51.09	mg/100gm
10.	Potassium as K	USDA Method, 1968	110.04	kg/hec.
11.	Organic Matter	IS:2720 (P-22, 1972)	0.43	%
12.	Magnesium as Mg	USDA Method, 1968	19.16	mg/100gm
13.	Available Nitrogen as N	IS:14684, 1999	221.77	kg./hec.
14.	Available Phosphorus	USDA, APHA-4500PC	32.66	kg./hec.
15.	Zinc as Zn	APHA-3030D, APHA-3111B	3.27	mg/100gm
16.	Manganese as Mn	APHA-3030D, APHA-3111B	2.01	mg/100gm
17.	Chromium as Cr	APHA-3030D, APHA-3111B	0.69	mg/100gm
18.	Lead as Pb	APHA-3030D, APHA-3111B	0.16	mg/100gm
19.	Cadmium as Cd	APHA-3030D, APHA-3111B	0.70	mg/100gm
20.	Copper as Cu	APHA-3030D, APHA-3111B	3.87	mg/100gm

Mrs. DEEPIKA DHAWAN
M.Sc. Env. Science

VARDAN ENVIRO LAB (GURGAON) CHAIRMAN AUTHORISED SIGNATORY

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Test Certificate

Sample Number:	VEL/MSI/S/04	Report No.:	VEL/MSI/S/1610/40
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016
Sample Description:	SOIL	Sampling Date:	10/10/2016
Sampling Location:	Near Village-Pipra Pakri (S4)	Type of Sampling:	Composite
Sample Collected by	Vardan Enviro Lab Team	Sampling Quantity:	2.0 Kg
Sampling & Analysis Protocol:	IS 2720 & USDA	Depth of Sampling:	30 cm
		Packing Status:	Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
1.	pH (at 25 ^{0}C)	IS : 2720 (P-26,1987)	7.74	--
2.	Conductivity	IS:14767-2000 Reaffirmed 2006	0.343	mS/cm
3.	Soil Texture	USDA Method, 1968	Silty Loam	--
4.	Color	USDA Method, 1968	Yellowish Brown	--
5.	Water holding capacity	USDA Method, 1968	27.62	%
6.	Bulk density	USDA Method, 1968	1.40	gm/cc
7.	Chloride as Cl	USDA Method, 1968	45.03	mg/100gm
8.	Calcium as Ca	USDA Method, 1968	64.39	mg/100gm
9.	Sodium as Na	USDA Method, 1968	38.07	mg/100gm
10.	Potassium as K	USDA Method, 1968	91.90	kg/hec.
11.	Organic Matter	IS:2720 (P-22, 1972)	0.58	%
12.	Magnesium as Mg	USDA Method, 1968	24.77	mg/100gm
13.	Available Nitrogen as N	IS:14684, 1999	276.05	kg./hec.
14.	Available Phosphorus	USDA, APHA-4500PC	25.05	kg./hec.
15.	Zinc as Zn	APHA-3030D, APHA-3111B	4.04	mg/100gm
16.	Manganese as Mn	APHA-3030D, APHA-3111B	1.76	mg/100gm
17.	Chromium as Cr	APHA-3030D, APHA-3111B	0.76	mg/100gm
18.	Lead as Pb	APHA-3030D, APHA-3111B	0.21	mg/100gm
19.	Cadmium as Cd	APHA-3030D, APHA-3111B	0.29	mg/100gm
20.	Copper as Cu	APHA-3030D, APHA-3111B	3.65	mg/100gm

Mrs. DEEPIKA DHAWAN
M.Sc. Env. Science

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Test Certificate

Sample Number:	VEL/MSI/AN/01	Report No.:	VEL/MSI/N/1603/62
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Project Site (N1)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	14/03/2016 to 15/03/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	61.80	51.50	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	48.80	39.10	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	53.20	42.50	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial Area)	-	75.00	70.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

VARDAN ENVIRO LAB CHANDIGARH AUTHORISED SIGNATORY

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Test Certificate

Sample Number:	VEL/MSI/AN/02	Report No.:	VEL/MSI/N/1603/63
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Near Village-Ganauli (N2)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	14/03/2016 to 15/03/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	58.00	50.40	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	45.90	39.00	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	51.84	42.05	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

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Test Certificate

Sample Number:	VEL/MSI/AN/03	Report No.:	VEL/MSI/N/1603/64
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

- **General Information:-**

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Near Village-Jawkatia (N3)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	14/03/2016 to 15/03/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	61.20	58.50	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	47.90	38.60	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	50.00	41.10	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

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Test Certificate

Sample Number:	VEL/MSI/AN/04	Report No.:	VEL/MSI/N/1603/65
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Near Village-Shikarpur (N4)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	14/03/2016 to 15/03/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	60.00	51.30	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	49.30	36.50	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	52.04	40.80	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

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Vardan EnviroLab

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Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275
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Test Certificate

Sample Number:	VEL/MSI/AN/05	Report No.:	VEL/MSI/N/1603/66
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Near Village-Rajabhaur (N5)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	14/03/2016 to 15/03/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	67.10	53.40	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	46.50	38.60	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	53.10	43.20	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

VARDAN ENVIRO LABORATORIES (INDIA) CHAUHAN AUTHORISED SIGNATORY

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Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275
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Test Certificate

Sample Number:	VEL/MSI/AN/06	Report No.:	VEL/MSI/N/1603/67
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Village-Karamtota (N6)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	14/03/2016 to 15/03/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	64.20	56.40	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	50.10	41.30	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	54.20	44.10	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutt
MS. RICHA DUTTA
B. Tech Env. Engineer

VARDAN ENVIRO LAB (CGURGAON) GAURAV CHAUHAN AUTHORISED SIGNATORY

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Vardan EnviroLab

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Test Certificate

Sample Number:	VEL/MSI/AN/07	Report No.:	VEL/MSI/N/1603/68
Name & Address of the Project.	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Village-Barwat Sena (N7)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	14/03/2016 to 15/03/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	57.60	53.20	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	44.50	37.60	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	52.10	41.58	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

VARDAN ENVIRO Lab
CHAUHAN
AUTHORISED SIGNATORY

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Test Certificate

Sample Number:	VEL/MSI/AN/08	Report No.:	VEL/MSI/N/1603/69
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Village-Senduria (N8)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	14/03/2016 to 15/03/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	63.50	58.30	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	47.30	40.30	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	51.80	43.70	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

VARDAN ENVIRO LAB GAJENDER CHAUHAN AUTHORISED SIGNATORY

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Test Certificate

Sample Number:	VEL/MSI/AN/01	Report No.:	VEL/MSI/N/1610/33
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Project Site (N1)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	09/10/2016 to 10/10/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	68.70	53.40	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	50.90	42.10	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	58.55	47.80	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial Area)	-	75.00	70.00	dB(A)

Richa Dutta
MS. RICHA DUTTA

VARDAN ENVIRO LAB GURGAON
GAURAV CHAUHAN
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Test Certificate

Sample Number:	VEL/MSI/AN/02	Report No.:	VEL/MSI/N/1610/34
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Near Village-Ganauli (N2)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	09/10/2016 to 10/10/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	65.40	52.60	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	47.60	37.10	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	53.16	42.88	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

VARDAN ENVIRO LAB (G)

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Test Certificate

Sample Number:	VEL/MSI/AN/03	Report No.:	VEL/MSI/N/1610/35
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Near Village-Jawkatia (N3)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	09/10/2016 to 10/10/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	63.20	55.50	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	47.30	39.10	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	52.28	43.52	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutt
MS. RICHA DUTTA
B. Tech Env. Engineer

AUTHORISED SIGNATORY

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Test Certificate

Sample Number:	VEL/MSI/AN/04	Report No.:	VEL/MSI/N/1610/36
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Near Village-Shikarpur (N4)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	09/10/2016 to 10/10/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	66.00	54.20	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	45.80	37.30	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	54.10	42.19	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

VARDAN ENVIRO LAB GAURAV CHAUHAN AUTHORISED SIGNATORY

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Test Certificate

Sample Number: VEL/MSI/AN/05

Name & Address of the Project: M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.

Report No.: VEL/MSI/N/1610/37
Format No.: 5.10 F-01
Party Reference No.: NIL
Reporting Date: 17/10/2016
Receipt Date: 11/10/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Near Village-Rajabhaur (N5)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	09/10/2016 to 10/10/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	59.80	54.20	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	47.30	38.20	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	51.11	43.65	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

VARDAN ENVIRO LAB CHANDIGARH AUTHORISED SIGNATORY

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Test Certificate

Sample Number:	VEL/MSI/AN/06	Report No.:	VEL/MSI/N/1610/38
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	Near Village-Karamtota (N6)
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	09/10/2016 to 10/10/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	60.50	48.90	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	46.20	37.70	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	52.98	43.56	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
B. Tech Env. Engineer

VARDAN ENVIRO LAB GA... CHAU... AUTHORISED SIGNATORY

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Regd. Off: D-142, Sushant Lok-III, Golf Course Extension Road, Sector-57, Gurgaon (Hr) Tel: 0124-4291036
Laboratory: Samaspur, Opposite Amity School, Sector-51, Gurgaon (Hr)
Branch Off: J-3, Subhash Marg, C-Scheme, Jaipur (Rajasthan) Tel: 0141-4026275
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Test Certificate

Sample Number:	VEL/MSI/AN/07	Report No.:	VEL/MSI/N/1610/39
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Near Village-Barwat Sena (N7)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	09/10/2016 to 10/10/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	68.90	53.20	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	45.20	39.10	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	54.00	44.97	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutt
MS. RICHA DUTTA
B. Tech. Env. Engineer

VARDAN ENVIRO LAB (P) LTD. GAURAV CHAUHAN AUTHORISED SIGNATORY

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Test Certificate

Sample Number:	VEL/MSI/AN/08	Report No.:	VEL/MSI/N/1610/40
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery {Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers}, Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	17/10/2016
		Receipt Date:	11/10/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	**Near Village-Senduria (N8)**
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	09/10/2016 to 10/10/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	62.80	55.90	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	49.10	35.10	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	53.05	41.85	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)	-	55.00	45.00	dB(A)

Richa Dutta
MS. RICHA DUTTA
Engineer

CHAUHAN
AUTHORISED SIGNATORY

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Test Certificate

Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Report No.:	VEL/A/MSI/1603/2712-2737
		Reporting Date:	08/06/2016
		Ref. No:	NIL
		Monitoring Period:	March to May 2016
Sample Description:	Ambient Air Quality Monitoring	Equipment Used:	RDS & FPS with all accessories
Sample Collected by :	Vardan Envirolab Team	Protocol Used:	CPCB Guidelines/IS-5182
Location:	Majhaulia Sugar Mill Near Project Sit (A8)		

RESULT

Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)
05.03.2016	72.1	47.5	28.6	17.1
06.03.2016	68.3	34.2	20.3	10.3
12.03.2016	78.4	38.6	22.3	15.8
13.03.2016	54.3	35.2	28.4	11.4
19.03.2016	58.3	30.1	29.3	17.3
20.03.2016	69.2	39.1	30.1	12.8
26.03.2016	54.3	30.2	23.5	9.5
27.03.2016	65.8	36.1	17.3	10.0
02.04.2016	67.4	38.7	28.4	15.6
03.04.2016	78.4	30.1	22.4	9.3
09.04.2016	58.9	33.5	25.6	10.8
10.04.2016	76.3	36.4	21.3	18.6
16.04.2016	72.3	20.8	21.3	10.3
17.04.2016	75.8	30.5	19.8	7.9
23.04.2016	67.6	36.6	19.2	12.2
24.04.2016	63.3	31.5	22.4	9.4
30.04.2016	64.6	28.2	24.7	17.4
01.05.2016	77.8	21.7	26.1	12.1
07.05.2016	70.4	33.2	27.6	9.4
08.05.2016	59.3	35.5	26.5	14.8
14.05.2016	66.7	30.3	22.5	10.6

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Test Certificate

Report No.:	VEL/A/MSI/1603/2712-2737			
Date	PM10 ($\mu g/m^3$)	PM 2.5 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)
15.05.2016	55.7	34.2	23.4	15.1
21.05.2016	64.9	31.7	18.6	8.7
22.05.2016	59.7	33.1	26.0	10.8
28.05.2016	54.5	36.6	20.1	15.1
29.05.2016	65.3	30.1	25.8	7.5

Chemical Composition of PM 10

Date	Parameter	PM10 ($\mu g/m^3$)	Free Silica %	Ca ($\mu g/m^3$)	Mg ($\mu g/m^3$)	Ni (ng/m^3)	Pb ($\mu g/m^3$)
10.04.2016	--	76.3	3.2	1.46	0.78	<0.5	0.20

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Test Certificate

Sample Number:	VEL/MSI/AN/05	Report No.:	VEL/MSI/N/1603/96
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by	:	Vardan Enviro Lab Team
Sampling Location	:	Majhaulia Sugar Mill Near Project Sit (N5)
Instrument Used	:	Sound Level Meter
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	14/03/2016 to 15/03/2016
Time of Monitoring	:	06:00 AM to 06:00AM
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Sampling & Analysis Protocol	:	CPCB Guidelines & IS-9989
Sampling Duration	:	24 Hours
Parameter Required	:	As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	CPCB Guidelines/ IS 9989	63.30	52.10	dB(A)
2.	L_{min}	CPCB Guidelines/ IS 9989	47.20	40.50	dB(A)
3.	L_{eq}	CPCB Guidelines/ IS 9989	54.30	45.20	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial Area)	-	75.00	70.00	dB(A)

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Test Certificate

Sample Number:	VEL/MSI/W/08	Report No.:	VEL/MSI/W/1603/135
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	Groundwater Sample	Sampling Date:	15/03/2016
Sampling Location:	Majhaulia Sugar Mill Near Project Sit (GW8)	Sampling Type:	Grab
Sample Collected by:	Vardan EnviroLab Team	Preservation:	Refrigerated
Sampling & Analysis Protocol:	IS-10500-2012, APHA 22nd Edition 2012	Sampling Quantity:	2.0 Ltr
		Parameter Required:	As per Work Order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.67	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA 22nd Edition, 2130 B	BDL (DL 1 NTU)	NTU	1	5
4.	Odour	APHA 22nd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA 22nd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as $CaCO_3$	APHA 22nd Edition, 2340 C	442.30	mg/l	200	600
7.	Calcium as Ca	APHA 22nd Edition, 3500 Ca B	110.23	mg/l	75	200
8.	Alkalinity as $CaCO_3$	APHA 22nd Edition, 2320 B	426.35	mg/l	200	600
9.	Chloride as Cl	APHA 22nd Edition, 4500-Cl- B	143.21	mg/l	250	1000
10.	Cyanide as CN	APHA 22nd Edition, 4500 CN- D	BDL(DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA 22nd Edition, 2340 B	40.65	mg/l	30	100
12.	Total Dissolved Solids	APHA 22nd Edition, 2540 C	762.00	mg/l	500	2000
13.	Sulphate as SO_4	APHA 22nd Edition, 4500 E	34.25	mg/l	200	400
14.	Fluoride as F	APHA 22nd Edition, 4500-F- D	1.23	mg/l	1.0	1.5
15.	Nitrate as NO_3	IS 3025 (P-34) 1988	24.30	mg/l	45	No Relaxation
16.	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.47	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL(DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA 22nd Edition, 4500B C	0.80	mg/l	0.5	1
19.	Chromium as Cr	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.05	No Relaxation

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Test Certificate

Sample No.: VEL/MSI/W/08 | Report No.: VEL/MSI/W/1603/135

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Conductivity	APHA 22nd Edition, 2120 B	1.23	mS/cm	--	--
21.	Phenolic Compounds	APHA 22nd Edition, 5530 C	BDL(DL 0.001 mg/l)	mg/l	0.001	0.002
22.	Mineral Oil	Clause 6 of IS:3025(Part 39)	BDL(DL 0.01mg/l)	mg/l	0.5	No Relaxation
23.	Anionic Detergents as MBAS	APHA 22nd Edition, 5540 C	BDL(DL 0.02 mg/l)	mg/l	0.2	1.0
24.	Zinc as Zn	APHA 22nd Edition, 3111 B	0.74	mg/l	5	15
25.	Copper as Cu	APHA 22nd Edition, 3111 B	0.49	mg/l	0.05	1.5
26.	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL(DL 0.10 mg/l)	mg/l	0.1	0.3
27.	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL(DL 0.001 mg/l)	mg/l	0.003	No Relaxation
28.	Lead as Pb	APHA 22nd Edition, 3111 B	BDL(DL 0.01mg/l)	mg/l	0.01	No Relaxation
29.	Selenium as Se	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
30.	Arsenic as As	APHA 22nd Edition, 3111 B	BDL(DL 0.01 mg/l)	mg/l	0.01	No Relaxation
31.	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
32.	Total Coliform	IS 1622,1981(Reaffirmed 2003)	<2/100ml	MPN/100ml	-	10.00
33.	E. Coli	IS 1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: - *BDL-Below Detection Limit, *DL- Detection Limit

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Test Certificate

Sample Number:	VEL/MSI/S/05	Report No.:	VEL/MSI/S/1603/93
Name & Address of the Project:	M/s Majhaulia Sugar Industries Pvt. Ltd., Sugar Molasses Based Distillery (Absolute Alcohol (Ethanol) Capacity 45 KLPD, Area-10 Acers), Village-Majhaulia, West Champaran, Bihar.	Format No.:	5.10 F-01
		Party Reference No.:	NIL
		Reporting Date:	19/03/2016
		Receipt Date:	15/03/2016
Sample Description:	SOIL	Sampling Date:	15/03/2016
Sampling Location:	Majhaulia Sugar Mill Near Project Sit (S5)	Type of Sampling:	Composite
Sample Collected by	Vardan Enviro Lab Team	Sampling Quantity:	2.0 Kg
Sampling & Analysis Protocol:	IS 2720 & USDA	Depth of Sampling:	30 cm
		Packing Status:	Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
1.	pH (at 25 ^{0}C)	IS : 2720 (P-26,1987)	8.63	--
2.	Conductivity	IS:14767-2000 Reaffirmed 2006	0.325	mS/cm
3.	Soil Texture	USDA Method, 1968	Silty Loam	--
4.	Color	USDA Method, 1968	Yellowish Brown	--
5.	Water holding capacity	USDA Method, 1968	27.36	%
6.	Bulk density	USDA Method, 1968	1.34	gm/cc
7.	Chloride as Cl	USDA Method, 1968	36.57	mg/100gm
8.	Calcium as Ca	USDA Method, 1968	57.26	mg/100gm
9.	Sodium as Na	USDA Method, 1968	23.32	mg/100gm
10.	Potassium as K	USDA Method, 1968	85.30	kg/hec.
11.	Organic Matter	IS:2720 (P-22, 1972)	0.65	%
12.	Magnesium as Mg	USDA Method, 1968	13.21	mg/100gm
13.	Available Nitrogen as N	IS:14684, 1999	257.00	kg./hec.
14.	Available Phosphorus	USDA, APHA-4500PC	43.26	kg./hec.
15.	Zinc as Zn	APHA-3030D, APHA-3111B	5.15	mg/100gm
16.	Manganese as Mn	APHA-3030D, APHA-3111B	2.42	mg/100gm
17.	Chromium as Cr	APHA-3030D, APHA-3111B	0.63	mg/100gm
18.	Lead as Pb	APHA-3030D, APHA-3111B	0.39	mg/100gm
19.	Cadmium as Cd	APHA-3030D, APHA-3111B	0.67	mg/100gm
20.	Copper as Cu	APHA-3030D, APHA-3111B	3.63	mg/100gm

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