# BEFORE THE NATIONAL GREEN TRIBUNAL PRINCIPAL BENCH, NEW DELHI

## M.A No. 879 of 2013 in Original Application No. 299 of 2013

Krishan Kant Singh & Anr.

**Applicant** 

Vs

National Ganga River Basin Authority & Ors

Respondent

Compliance Statement on behalf of Central Pollution Control Board.

In compliance of the order passed by the Hon'ble Tribunal dated 05-08-2014 and dated 15-09-2014 the status of Grossly Polluting Industries (GPI) operating in the state of Uttar Pradesh is enclosed.

#### INDEX

Annexure	Context	Page No.
I.	Inspection reports of GPIs (sugar mills & distillery units) operating under Regional Office, UPPCB,	1-28
II.	Aligarh.  Inspection Reports with regards to the industries listed in Annexure A of the report dated 2 <sup>nd</sup> July, 2014 "Harduaganj Thermal Power Station, Kashimpur, Aligarh of M/s Uttar Pradesh Rajya Vidyut Utpadan Ltd."	29-32

DELHI The October 24, 2014 Sr. Environmental Engineer & Incharge NGRBA
Central Pollution Control Board
Parivesh Bhawan
East Arjun Nagar
Delhi -110032

Encl. As Above

Through Raj Kumar Advocate Chamber No. 774 Lawyers Chamber Saket New Delhi



#### CENTRAL POLLUTION CONTROL BOARD NGRBA Cell

#### Joint inspection Report: Sugar

Date of Inspection: 14.10.2014

	General Information	
1.	Name of the unit and address	M/s Anand Agrochem, Village-Gopi Ladhoa, Tehsil-Koil, Aligarh. (U.P)
2.	<ul> <li>Name of the Proprietor/Contact person</li> <li>Designation</li> <li>Contact No.</li> </ul>	No representative person available only security staff available
3.	Year of Commissioning.	2005 (04.12.2005)
4.	Sector	Private
5.	Production details.  Products Installed Prod. Cap Operating capacity	Sugar
6.	Cane crushing capacity	2500 MTD (As per record available with UPPCB)
7.	Cane crushed last year	Nil
8.	Molasses generation	Nil
9.	Press Mud generation	Nil
10.	Operational status	Closed by own – Since last 2 year as informed by security staff.
B: W	/ater Pollution and its Control:	
1.	Water Supply Source(s)	Ground Water (Tube well (02 Nos.)
	Water Consumption (KLD)	Industrial -
		Domestic -
2.	Water Meter to show consumption	Not available
3.	Flow measuring device installed at outlet of ETP	Not available
4.	Waste Water generation (KLD) (before treatment)  ➤ Industrial  ➤ Domestic	-

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	T					
5.	Waste Water treatment capacity (KLD)  ➤ Industrial  ➤ Domestic	-				
6.	Details of ETP  > ETP Description with flow diagram  > Details of Reverse Osmosis plant, if any	Collection Tank» Equalisation Tank» Che Dosing» Primary Clarifier» Aeration Tank Surface aerator» Secondary Clarifier Sand/Activated carbon filter» Discharge in to drain No.			n Tank» rifier»	
	> Details of Multi Effect Evaporator, if any	No.				
7.	Waste water discharged (after treatment) (KLD) ➤ Industrial Domestic	-				
8.	Mode of disposal of treated effluent (Details)	Surface Water th	nrough dr	ain		
9.	Sample distributed into no. of parts (2/3)	N/A				
10.	Sludge disposal mode	-				
11.	Effluent collection locations & analysis results (if collected)	Locations	pН	BOD (mg/l)	COD (mg/l)	TSS (mg/l)
	-	Outlet				
		Others				
	nformation regarding Ferti-irrigation					
1.	Details of treatment effluent before Ferti- irrigation			NA		
2.	Command area for irrigation (available land area)			NA		
3.	System for dilution of treated effluent required for ferti-irrigation			NA		
4.	System of transportation of treated effluent upto field.			NA		
5.	Formal agreements with farmers for using treated effluent		,	NA		
6.	Storage facility available for treated effluent during low demand period			NA		
7.	Quality of effluent being used for ferti- irrigation			NA		
8.	Ground water monitoring network	Not available				(

N/g Sign

3

C: Ai	r Pollution and its Control	
1.	Sources of Air Pollution	-
2.	> Type of Fuel used with consumption	
3.	> Stack details	One
4.	> APCS details	-
5.	Samples collections points	<b>PM</b> (mg/Nm <sup>3</sup> ):
	(if collected)	NA

# D. Route of effluent to reach river Ganga/Yamuna (Please indicate starting from the outlet drain of the unit)

ETP Outlet - Local Drain - Kali River - Ganga River

1	Name of officials inspecting	Name & Designations	Signature
		Navin Chandra Durgapal	
		Scientist – D	Namapol
		CPCB, Delhi	Nat
		Pramod Mishra	9
		Regional Officer	
		UPPCB, Aligarh.	9
		G.S. Srivastav	P. De
		Assistant Environment Engineer	3.2
		UPPCB, Aligarh.	
2	Date of report Submission	21.10.2014	

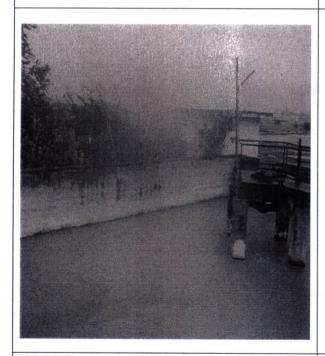
# Anand Agrochem India Ltd., Gopi Ladhoa, Aligarh



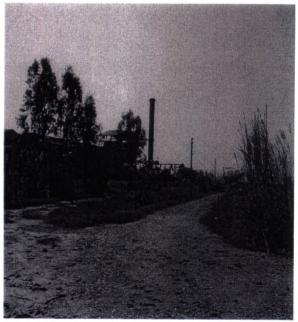


**Equalization tank** 

Clarifier







Stack



# CENTRAL POLLUTION CONTROL BOARD NGRBA Cell

### Joint inspection Report: Sugar

Date of Inspection: 14.10.2014

A. C	General Information		Date of hispection, 14,10,2014
1.	Name of the unit and address	M/a NI - 1º O	
1.	Name of the unit and address	M/s. Neoli Suga	
		Neoli, Kasganj	(U.P.) 207402
2.	Name of the Proprietor/Contact person	Mr. N.L. Srivas	tava
	Designation	(Sr. Manager R	
	• Contact No.	05744-275068,	275073
3.	Year of Commissioning.	October, 1933	
4.	Sector	Private	
5.	Production details.		
	<ul> <li>Products</li> </ul>	Sugar	
	Installed Prod. Cap	250 Ton Sugar/	Day
	Operating capacity	225 Ton Sugar/	Day
6.	Cane crushing capacity	2500 TCD	
0.	can or assume capacity	2500 100	
7.	Cane crushed last year	138582.914 Tor	1 (2013-14)
8.	Molasses generation	6802.67 Ton	
9.	Press Mud generation	4670.244 Ton	
10.	Operational status	Operating – No	t in Operation due to off Season (RT-8C
		Attached) since	16 <sup>th</sup> March, 2014
R∙ W	Vater Pollution and its Control:		
1.	Water Supply Source(s)	1. Tubewell (03	Nos.)
	supply source(s)	in ruse wen (os	1100.)
	Water Consumption (VID)	Industrial	1642 KL/Day (During Season)
	Water Consumption (KLD)	Domestic	
			180 KL/Day (During Season)
2.	Water Meter to show consumption	Not available	
3.	Flow measuring device installed at outlet of	Available (V. N	otch)
4	ETP		
4.	Waste Water generation (KLD) (before treatment)		
	➤ Industrial	800 KI /Day (A.	prox.) (As per UPPCB Consent)
	> Domestic		
	> Domestic	120 KL/Day (A)	prox.)

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5.	W	T	·	<del></del>		
	Waste Water treatment capacity (KLD)	1500 1/1 15				
	> Industrial	1500 KLD Septic Tank receive entire domestic waste				
-	➤ Domestic Details of ETP	Septic Tank rece	ive entire	e domestic	waste	
6.	► ETP Description with flow diagram	Screen Chamber» Oil & Grease Trap» Ed Tank» Anaerobic Filler tank» Aeration Secondary Clarifier» Sludge Drying Beds (03)			n Tank»	
	> Details of Reverse Osmosis plant, if any	No.				
	> Details of Multi Effect Evaporator, if any	No.				
7.	Waste water discharged (after treatment) (KLD)					
	➤ Industrial	NA				
	➤ Domestic	100 KLD				
8.	Mode of disposal of treated effluent	On land				
	(Details)	1. Own Lar			(D. 11. )	
0	S1-1::		ig & wet	Scrubber	(Boiler)	
9.	Sample distributed into no. of parts (2/3)	N/A				
10.	Sludge disposal mode	As Manure in ow	n Land/I	Land filling	g (Press Mi	nd)
					5 (11000 1111	)
11.	. Effluent collection locations & analysis Locations			Parameters		
	results (if collected)		pН	BOD	COD	TSS
		Outlet		(mg/l)	(mg/l)	(mg/l)
		Others		+		
(T) I	formation regarding Ferti-irrigation					
(1) 10						
1.	Details of treatment effluent before Ferti-	A Above				
	Details of treatment effluent before Ferti-	A Above				
1.	Details of treatment effluent before Ferti- irrigation					
	Details of treatment effluent before Ferti-	A Above  53 Acre (Own La	and)			
1.	Details of treatment effluent before Ferti- irrigation		and)			
2.	Details of treatment effluent before Ferti- irrigation  Command area for irrigation (available land area)	53 Acre (Own La	ind)			
1.	Details of treatment effluent before Ferti- irrigation  Command area for irrigation (available land area)  System for dilution of treated effluent		and)			
2.	Details of treatment effluent before Ferti- irrigation  Command area for irrigation (available land area)  System for dilution of treated effluent required for ferti-irrigation	53 Acre (Own La	and)			
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2.	Details of treatment effluent before Ferti- irrigation  Command area for irrigation (available land area)  System for dilution of treated effluent required for ferti-irrigation  System of transportation of treated effluent upto field.  Formal agreements with farmers for using	53 Acre (Own La		lage		
<ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	Details of treatment effluent before Ferti- irrigation  Command area for irrigation (available land area)  System for dilution of treated effluent required for ferti-irrigation  System of transportation of treated effluent upto field.	No.  Common Drain of		lage		
<ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	Details of treatment effluent before Ferti- irrigation  Command area for irrigation (available land area)  System for dilution of treated effluent required for ferti-irrigation  System of transportation of treated effluent upto field.  Formal agreements with farmers for using	No.  Common Drain of		lage		
<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>6.</li> </ol>	Details of treatment effluent before Ferti- irrigation  Command area for irrigation (available land area)  System for dilution of treated effluent required for ferti-irrigation  System of transportation of treated effluent upto field.  Formal agreements with farmers for using treated effluent  Storage facility available for treated effluent during low demand period	No.  Common Drain of NA		lage		
<ol> <li>2.</li> <li>3.</li> <li>5.</li> </ol>	Details of treatment effluent before Ferti- irrigation  Command area for irrigation (available land area)  System for dilution of treated effluent required for ferti-irrigation  System of transportation of treated effluent upto field.  Formal agreements with farmers for using treated effluent  Storage facility available for treated effluent	No.  Common Drain of NA		lage		
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<ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	Details of treatment effluent before Ferti- irrigation  Command area for irrigation (available land area)  System for dilution of treated effluent required for ferti-irrigation  System of transportation of treated effluent upto field.	No.  Common Drain of		lage		
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(F)

C: A	air Pollution and its Control	
1.	Sources of Air Pollution	Boilers Two Nos.
2.	> Type of Fuel used with consumption	Bagasse
3.	> Stack details	<ol> <li>Dia 3.04 Meter, Height – 45 Meter</li> <li>Dia 3.04 Meter, Height – 42 Meter</li> </ol>
4.	> APCS details	<ol> <li>Wet Scrubber in One Stack.</li> <li>Multi Cyclone Dust Collector in Another Stack (Wet Scrubber under Commissioning)</li> </ol>
5.	Samples collections points (if collected)	PM (mg/Nm³): Yes (At the Place of 8 Time of Dia)

# D. Route of effluent to reach river Ganga/Yamuna (Please indicate starting from the outlet drain of the unit)

Effluent discharge on land for irrigation

1	Name of officials inspecting	Name & Designations	Signature
		Navin Chandra Durgapal	/ 1
		Scientist – D	Dourgepal
		CPCB, Delhí	10000
		Pramod Mishra	
		Regional Officer	
		UPPCB, Aligarh.	$\bigcirc$
		G.S. Srivastav	
		Assistant Environment Engineer	95
		UPPCB, Aligarh.	
		ч.	
2	Date of report Submission	21'10 2014	

### Neoli Sugar Factory Ltd. Kasganj







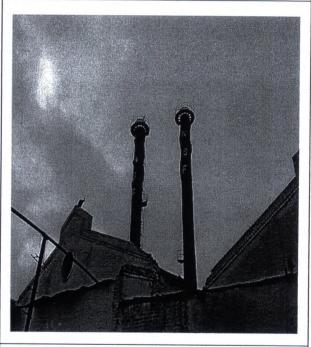


Screen chamber & Oil & Grease trap

Anaerobic filler tank







Equalization tank & Clarifier (top to bottom)

Stacks



Phone: 0571-2743510



#### MEGIOTAL OF TOLIGIES AND THE

# U. P. POLLUTION CONTROL BOARD

J-1, Gyansarover Colony, Ramghat Road, ALIGARH - 202 001

Sample Code No.

INDUSTRIAL EFFLUENT SAMPLE ANALYSIS REPORT

ne of the Industry M/s - Nepli Sugar factory, Kasganj

Kanshin Ramnagar

Sample collected by :- Mr. P. K. Misha, G. G. Smostra, A. K. Kaus

Date of collection :- 11.2.14

Sampling point :- After ET.P.

			'
ARAMETERS		VALUES	
Colour	:-	Colourbes	
Odour	;	Odourless.	
Н	:-	7.70	
Suspended Solids	; <del>-</del>	26.0	
Dissolved Solids	; <del>-</del> -		
Total Solids		<i>k</i>	
B.O.D. (After 3 days incubation at 27° C)	:-	20 0	
C.O.D. (Dichromate reflux method	:- <u>-</u> _	100.0	

HER PARAMETERS :-

Oil & Grease

the parameters are expressed in mg/L, except pH or stated otherwise,

mark-

Nnalysed by

Dogodh

A. Š.

R. O.



FORM R.T.8 (C) (For Central Sugar Factories)		
Runge:- Neoli	Division:- Kasgang	
Final Manufacturing Report for the season 2013-14	i.	
(Central Excise fuleos)		
Name and address of factory :- NEOLI SUGAR FACTORY; NE	EOLI , KASHIRAM NAGAR	
Registered No.of Factory :-S-7		
Clearification Proces used Double Sulphitation		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
SI.No. PARTICULARS	This Season	Last Seaso
1 Time Account :-		
Date of Start	17-12-2013 at 10-30 A.M.	14-12-2012 at 10:30 P.I
Date of finish	16-03-2014 at 11-30 pm	13-03-2013 at 11:20 P.I
Gross Season (days) (f)	90	S
Duration of Season (days) (g)	70	7
Total Hours actual crushing	1543-05	1727-2
Total Hours lost	605-55	409-2
(I) Cane Shortage	162-45	164-1
(ii) Meachanical	95-35	46-4
(iii) Process		
(iv) Miscellaneous	341-10	151-2
(v) Cleaning		25-4
(vi) Electrical	.6-25	. 21-2
(vii)Cane grower strike		
2 Cane Crushed		
(I) Own Estate Cane (Qtls)		,
(ii) Gate Cane (Qtls)	662839.36	829918.0
(iii) Outstation (cane) (Qtls)	722989.78	713242.5
Rail Cane		
Other than Rail Cane Road		
(iv) Total (Qtls)	1385829.14	1543160.6
3 Juice & Added water		
Average Gross mixed Juice percent cane	107.29	107.7
Correction % mixed juice	0.32	0.3
Average net mixed Juice percent cane	106.94	107.3
Total net mixed juice obtained (Qtls)	1482072.81	1656424.4
Average added water percent cane	39.57	40.3
4 Sugar		,
Total Sugar bagged.	182920.00	157380.0
(i) No. of Bags.(50 Kg)	118420.00	43720.0
(ii) No. of Bags.(100 Kg)	64500.00	113660.0
(ii) Quantity (Qtls)	*123710.00	135520.0
sugar in proces. If any "	268.67	305.0
Total sugar made "	123978.67	135825.0
Suger recovered from previous season's process	281.00	. 0.0
Sugar from previous season's remelted sugar or		,
other sources	353.00	2248.0
Total net suger made. (Qtls)	123344.67	133577.0
Note:-* This includes 530 qtls Brown sugar of above 9	0 % pol	
		Page No.



I.No.	PARTICULARS	This Season	Last Seaso
		11110 0003011	Last Seaso
5	Molasses		
	Total Molasses sent out (Qtls)	68101.00	77055
	Molasses in process. If any "	131.25	77855.0
	Total Molasses Produced (Qtls)	The second secon	110.7
	Molasses recovered from previous season's process	68232.25	77965.7
	Molasses from previous season's remelted sugar on	128.78	0.00
	other sources	70.77	
	Total net Molasses produced.	76.77	460.00
		68026.70	77505.79
	Recovery		
1	Average recovery of sugar percent cane.	8.00	
1	Average production of final molasses percent cane	8.90	8.66
		4.91	5.02
7 8	Bagasse percent cane(e) :	22.22	
F	ilter cake percent cane.	32.28	32.63
		3.37	3.92
8 8	Stores used :		
	Coal percent cane		
	irewood percent cane		
	Other Fuel percent cane		
Li	ime percent cane		
Li	ime percent cane (E.T.P& injection Channel)	0.104	
S	ulphur percent cane.	0.194	0.189
Lu	ubricants oil & grease KG Per 100 quintals cane	0.084	0.082
50	oda Ash Kg. Per 100 quintals cane	0.569	0.430
C	ommon salt Kg. Per 100 quintals cane	0.084	0.075
Sc	cle Mesh-155 Kg. Per 100 quintals cane	0.021	0.010
Ca	austic Soda Kg. Per 100 quintals cane	0.052	0.030
Sı	ulfamic descalant Kg. Per 100 quintals cane	0.354	0.219
Pr	nosphoric acid Kg. Per 100 quintals Cane		
Vis	scosty Reducer Kg Per 100 quintals Cane	0.120	0.081
FIG	ocluent Kg Per 100 quintals Cane	0.096	0.104
Co	plour wash / Colour Prec. Kg Per 100 quintals Cane	0.010	0.009
Mi	Il Sanitation Kg Per 100 quintals Cane	0.104	0.058
Se	eed Slurry Kg Per 100 quintals Cane	0.057	0.053
	dufficials Cane	0.066	0.044
	alysis		
Ca	ne Suger percent	11.04	40.05
	Fiber percent	15.24	10.95
		13.24	15.34
			Page.2



.No.	PARTICULARS	This Sesason	Last Seaso
Dringer			,
Primary	Sugar percent	13.32	13.3
	Brix percent	17.10	17.19
2.7	Purity ·	77.89	77.66
Mixed Juic	ougui persent	9.75	9.60
	Brix percent	12.82	12.68
	Purity	76.05	75.7
Last Juice	Sugar percent	1.29	1.51
	Brix percent	1.86	2.20
	Purity	69.35	68.64
Clarified Ju	iice Sugar percent	9.83	
	Brix percent	12.86	9.79
	Purity	76.44	12.89
Filter press	Juice Sugar percent	70.44	75.95
	Brix percent		
	Purity		
Unsulphere	d Syrup Sugar percent	44.00	
	Brix percent	44.66	42.87
	Purity	58.37	56.46
Sulphered S	Syrup Sugar percent	76.51	75.98
	Brix percent	44.83	42.73
	Purity	58.64	56.30
Massecuelte		76.45	75.90
	Purity	95.01	94.84
Massecuite		85.38	84.63
	Purity	97.12	97.41
Massecuelte	C Brix percent	69.23	69.14
- Made Code (10	Purity	101.78	102.02
Massecuelte		50.43	51.69
Massecaette			7 11 100 4 100 100
	Purity		
Molasses (C	S)		
A heavy	Brix percent		
	Purity	86.52	86.35
A Light	Brix percent	69.01	69.74
	Purity	73.24	71.55
B heavy	Brix percent	87.08	88.01
	Purity	89.65	90.56
B Light	Brix percent	49.41	50.89
	Purity		
B1 heavy	Brix percent		
	Purity		
C Light	Brix percent		
- Light	Purity	82.29	84.92
	Furity	68.06	66.75
Sugar : (Ave	rage)		
(I) White Sug	ar Sugar percent (d)	, , , , , , , , , , , , , , , , , , , ,	
(Bagged)	Moisture percent	99.77	99.90
30	- Molecule percent	0.05	0.04
			Page.3



No. PARTICULARS	This Season	Last Seaso
Final Malasses Sugar precent		
Brix percent	28.45	28.8
Purity	93.73	93.3
Tunty	30.35	30.8
Bagasses Sugar present		
water percent	1.91	1.9
Fiber percent	50.05	50.1
Filter cake Sugar percent	47.20	47.0
Lime Kiln gas CO2 percent	1.68	1.9
Boiler Feed water Deg.Centi.		
PH	104	10
Clear JuiceTemperature Deg Centi.	9.70	9.7
postas Dog Cont.	97	9.
10 Mill Ectention, Boiling House Extraction And		,
0 over all extraction :		
	-	
Mill Extraction.	94.38	04.00
Reduced Mill Extraction.	95.53	94.06 95.32
Boiling House Extraction	85.22	The second secon
Reduced Boiling House Extraction.	91.72	83.98 91.18
Over all extraction.	80.43	
Reduced Over all extraction.	87.62	78.99 86.91
11 Sugar Balance		00.91
- Jugar Dalance		
1 Sugar in Cane	Cane = 100	Cane = 100
2 Sugar in mixed Juice.	11.04	10.95
3 Sugar in bagasse	10.42	10.30
4 Sugar in filter cake	0.62	0.65
5 Sugar in final molasses	0.06	0.08
6 Sugar in sugars	1.40	1.45
7 Sugar Undetermind	8.88	8.65
8 Total losses (in Bagasses, filter cake Molasses &	0.08	0.12
undetermind)	2.16	2.30
		The second section is a second second second second section se
	The second secon	

	PARTIC	ULARS	This Season	Last Seaso
10				Lust Ocaso
12	Area & yield of cane in fact	ory:		
	Total area of f			
	Total area of form Area under cane	Hectare		
	Production of cane			
		Quintals		,
	Average yield per Hectarage Average			
	Varity (a) plant			
	(b) Adsall	Percentage "		
	© Ratoon	"		
	© Nation1			
				`
		· .		
		· ·		
1	horoby doctors that 5			
	hereby declare that figure given by knowledge, and heliaf	en in this return are complete	and true to the best of	
	ny knowledge and belief.			
	35			
	Mgr(Q.C.)		16,21	
	*** *** **** **** ********************	J.g. 01 the 04	ner or person authorised	
10	ate:-			
	ate:-			
	Pate:-			
		Wolgh's and a series		
TE (a	a) Outstation cane is the cane	weight and purchased at a ce	entre other than at the	
TE (a	Outstation cane is the cane actory gate.	weight and purchased at a ce	entre other than at the	
TE (a	a) Outstation cane is the cane actory gate.  Carbonation factories only.			
TE (a	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite sys			
TE (a	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite sysolasses are not to be given.			
TE (a fa (b (c) M	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olasses are not to be given. c) 'Sugar means Direct Pol.'	tem brix and purities of C hea	vy and D Light	
TE (a fa (b (c) M (d) (e	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olds. c) In case are not to be given. c) 'Sugar means Direct Pol.' c) Bagasse percent cane= 100	tem brix and purities of C hea	vy and D Light	
TE (a fa fa (b (c) (c) (d) (d) (d) (e) (e)	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olds. c) Sugar means Direct Pol.' c) Bagasse percent cane= 100 percent cane.	tem brix and purities of C hea	vy and D Light -mixed juice (Gross)	
TE (a fa	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olasses are not to be given. c) 'Sugar means Direct Pol.' d) Bagasse percent cane= 100 percent cane. Gross Season means the tot	tem brix and purities of C hea	vy and D Light -mixed juice (Gross)	
TE (a fa	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olasses are not to be given. c) 'Sugar means Direct Pol.' dercent cane: Gross Season means the tot close both days inclusive.	tem brix and purities of C hea	-mixed juice (Gross) date start to the date	
TE (a fa	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olasses are not to be given. c) 'Sugar means Direct Pol.' d) Bagasse percent cane= 100 percent cane. Gross Season means the tot close both days inclusive. d) Duration of season. This is contacting the contaction of season.	tem brix and purities of C hea	-mixed juice (Gross) date start to the date	
TE (a fa	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olasses are not to be given. c) 'Sugar means Direct Pol.' d) Bagasse percent cane= 100 percent cane. Gross Season means the tot close both days inclusive. d) Duration of season. This is of 22.	tem brix and purities of C hear  9% added water percent cane cal noumber of days from the or	-mixed juice (Gross) date start to the date hours actual crushing	
TE (a fa fa (b) (c) (c) (d) (d) (e) (e) (f) (g) (g) (g) (g) (g) (g) (g) (g) (g) (g	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system oldsses are not to be given. c) 'Sugar means Direct Pol.' d) Bagasse percent cane= 100 ercent cane. Gross Season means the total close both days inclusive. d) Duration of season. This is of 22. eturn in this form must be presented.	tem brix and purities of C hear 20% added water percent cane 21% all noumber of days from the coalculated by dividing the total 22% ared for the entire working second 22%.	-mixed juice (Gross) date start to the date hours actual crushing	
TE (a fa fa (b (c) (c) (d) (d) (e) (e) (f) (g) (g) Re	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olasses are not to be given. c) 'Sugar means Direct Pol.' d) Bagasse percent cane= 100 percent cane. Gross Season means the total close both days inclusive. d) Duration of season. This is of 22. ceturn in this form must be preparatory and must be submited s	tem brix and purities of C hear  3% added water percent cane cal noumber of days from the concludated by dividing the total calculated by dividing the total cared for the entire working seconds as to reach not later than the	-mixed juice (Gross) date start to the date hours actual crushing	
TE (a fa fa (b) (c) (c) (d) (e) (e) (f) (g) (g) (g) (f) (g) (g) (g) (g) (g) (g) (g) (g) (g) (g	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olasses are not to be given. c) 'Sugar means Direct Pol.' dercent cane are percent cane and control to the	tem brix and purities of C hear  2% added water percent cane cal noumber of days from the concluded by dividing the total calculated by dividing the total cared for the entire working second as to reach not later than the	-mixed juice (Gross) date start to the date hours actual crushing	
TE (a fa (b (c) (c) (d) (d) (e) (e) (f) (g (by Re factor) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system oldsses are not to be given. c) 'Sugar means Direct Pol.' b) Bagasse percent cane= 100 percent cane. Gross Season means the total close both days inclusive. c) Duration of season. This is control to the control of the control o	tem brix and purities of C hear  2% added water percent cane cal noumber of days from the concluded by dividing the total calculated by dividing the total cared for the entire working second as to reach not later than the	-mixed juice (Gross) date start to the date hours actual crushing	
TE (a fa fa (b (c) fa	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olasses are not to be given. c) 'Sugar means Direct Pol.' d) Bagasse percent cane= 100 percent cane. Gross Season means the total close both days inclusive. d) Duration of season. This is of 22. ceturn in this form must be prepared and must be submitted serviced	tem brix and purities of C hear  2% added water percent cane cal noumber of days from the concludated by dividing the total cared for the entire working seconds to reach not later than the on closed the following authoricerned.	-mixed juice (Gross) date start to the date hours actual crushing	
TE (a fa fa (b (c) M) (d) (e pe fa fa the 1. 2. 3.	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olasses are not to be given. c) 'Sugar means Direct Pol.' d) Bagasse percent cane= 100 percent cane. Gross Season means the total close both days inclusive. d) Duration of season. This is contained to the contained on the contained of the contained on th	tem brix and purities of C hear  2% added water percent cane cal noumber of days from the of the calculated by dividing the total cared for the entire working set of as to reach not later than the conclosed the following authoricerned.	-mixed juice (Gross) date start to the date hours actual crushing	
TE (a fa fa (b (c) M) (d) (e pe fa fa the 1. 2. 3.	a) Outstation cane is the cane actory gate. b) Carbonation factories only. c) In case of 3 massecuite system olasses are not to be given. c) 'Sugar means Direct Pol.' d) Bagasse percent cane= 100 percent cane. Gross Season means the total close both days inclusive. d) Duration of season. This is of 22. ceturn in this form must be prepared and must be submitted serviced	tem brix and purities of C hear  2% added water percent cane cal noumber of days from the of the calculated by dividing the total cared for the entire working set of as to reach not later than the conclosed the following authoricerned.	-mixed juice (Gross) date start to the date hours actual crushing	



# CENTRAL POLLUTION CONTROL BOARD NGRBA Cell

### Joint inspection Report: Sugar

Date of Inspection: 15.10.2014

A: (	General Information					
1.	Name of the unit and address	M/s. Kishan Sa Village-Satha, I	hkari Chini Mills Ltd. DisttAligarh.			
2.	Name of the Proprietor/ Contact person : Designation : Contact No. :	Sri. K.S. Chauhan General Manager				
3.	Year of Commissioning.	1977				
4.	Sector	Cooperative				
5.	Production details.  • Products  • Installed Prod. Cap  • Operating capacity	White Sugar Approx. 1250 S Approx. 1000 S	Sugar bags (100 kg each)/day Sugar bags/day			
6.	Cane crushing capacity	1250 TCD				
7.	Cane crushed last year	11.80 Lac Qtls.				
8.	Molasses generation	57367 Qtls.				
9.	Press Mud generation	36173 Qtls.				
10.	Operational status	Closed Due to off season since 6 <sup>th</sup> April, 2014				
B: W	vater Pollution and its Control:	ļ.				
1.	Water Supply Source(s)	Tube Well (02 l	Nos.)			
	Water Consumption (KLD)	Industrial	Approx. 1000 KLD (During season)			
	-	Domestic	Approx. 200 KLD			
2.	Water Meter to show consumption	Not available				
3.	Flow measuring device installed at outlet of ETP	Not available				
4.	Waste Water generation (KLD) (before treatment)	NA				
	➤ Industrial ➤ Domestic	Approx. 600 KI Approx. 160 KI				

St Na S

5.	Waste Water treatment capacity (KLD)  ➤ Industrial  ➤ Domestic	500 MTD				
6.	Details of ETP  > ETP Description with flow diagram  > Details of Reverse Osmosis plant, if any  > Details of Multi Effect Evaporator, if any	<ol> <li>Bar Screen</li> <li>Oil &amp; Grease Trap</li> <li>Equalisation Tank</li> <li>Dosing Tank</li> <li>Aeration Tank</li> <li>Clarifier Tank</li> <li>Sludge Drying Beds</li> </ol>				
7.	Waste water discharged (after treatment) (KLD)  ➤ Industrial  ➤ Domestic	NA Approx. 150 KL	D			
8.	Mode of disposal of treated effluent (Details)	On land				
9.	Sample distributed into no. of parts (2/3)	-	************			
10.	Sludge disposal mode	Agricultural used	/land fill	ling		
11.	Effluent collection locations & analysis results (if collected)	Locations			ameters	
		0.41	pН	BOD (mg/l)	COD (mg/l)	TSS (mg/l)
		Outlet				
		Others				
	formation regarding Ferti-irrigation		<u> </u>			
1.	Details of treatment effluent before Ferti- irrigation	ETP details Ment	ion abov	ve.		
2.	Command area for irrigation (available land area)	Approx 0.7 Hecta	re.			
3.	System for dilution of treated effluent required for ferti-irrigation	Nil				
4.	System of transportation of treated effluent upto field.	Own Drain				
5.	Formal agreements with farmers for using treated effluent	Used by Own				
6.	Storage facility available for treated effluent during low demand period	Not available				
7.	Quality of effluent being used for ferti- irrigation	Not available				***************************************
	migation					

$\mathbf{C}$ : $\mathbf{A}$	ir Pollution and its Control	
1.	Sources of Air Pollution	
2.	> Type of Fuel used with consumption	Bagasse
3.	> Stack details	One Nos. Height 30 Meter
4.	> APCS details	Dust Collector (Dry Type)
5.	Samples collections points (if collected)	PM (mg/Nm³):

# D. Route of effluent to reach river Ganga/Yamuna (Please indicate starting from the outlet drain of the unit)

On Land

**E. Remarks :** The ETP is in Poor Condition. It seems that the industry may not be able to stabilize the biological unit of ETP properly before operation of Industry by the end of November, 2014

1	Name of officials inspecting	Name & Designations	Signature
		Navin Chandra Durgapal	
		Scientist – D	Naugated
		CPCB, Delhi	Nau
		Pramod Mishra	
		Regional Officer	
		UPPCB, Aligarh.	0
		G.S. Srivastav	
		Assistant Environment Engineer	G S Je
		UPPCB, Aligarh.	
2	Date of report Submission	21'10'2014	

### Kishan Sahkari Chini Mills Ltd., Satha, Aligarh





**Equalization tank** 



Aeration tank

#### Clarifier



Factory land used for ferti-irrigation



#### **Joint inspection Report: Distillery**

Date of Inspection: 15.10.2014

1.	Name of the unit and address	M/s. Wave Distillery & Brewaries Ltd., VillageAhmadpura, Ramghat Road, Tehsil-Atrauli, DisttAligarh. (Distillery & Bottling Unit)			
2.	Name of the Proprietor/ Contact person Designation Contact No.	Sri S.S. Singh Vice Precident Mob-9536920202			
3.	Year of Commissioning.	2009	T-T		
4.	Sector	Private			
5.	Production details.  Products Installed Prod. Cap. Consented Prod. Cap Restricted Prod. Cap.	ENA 90 KLD			
6.	Raw materials & their requirement	Molasses (350-400 MT/Day)			
7.	Operational status	Operating			
B: V	Vater Pollution and its Control:				
1.	Water Supply Source	Bore Well – 02 Nos.			
	Water Consumption (KLD)	Industrial	1200-1300 MLD		
		Domestic	Approx. 8 KLD		
2.	Water Meter to show consumption	Available			
3.	Flow measuring device installed at outlet of ETP	Available (For	Waste Water from Bottling Plant)		
4.	Waste Water generation (KLD) (before treatment) ➤ Industrial ➤ Domestic	760 KLD (Spent Wash)  70 KLD (From Bottling Plant as per UPPCB Consent) 5 KLD			
5.	Waste Water treatment capacity (KLD) ➤ Industrial ➤ Domestic				



6.	Details of ETP						
	> ETP Description with flow diagram	Spent Wash goes to MEE Effluent from Bottling Plant passes through filter					
	➤ Details of Reverse Osmosis plant, if any	NA	ottling Pla	int passes	through filt	er	
	Betains of reverse estimons plant, if any	INA					
	> Details of Multi Effect Evaporator, if	Yes					
	any	5 Effect with Fin		m Consum	nption 5-5.5	5 Ton/hr	
		Ca1	Temp 82°c				
		Ca1	75°°				
		Ca3	70°c				
		Ca4	66°c				
		Ca5 Finisher	60°c 50°c				
		1 imsnei	30				
7.	Waste water discharged (after treatment)						
	(KLD)	1 1/100		15. 16			
	> Industrial	<ol> <li>M.E.E. Cond</li> <li>R.O. Reject t</li> </ol>			· Molasses Dilution Tower ximately 70 KLD		
		(As per UPP			•		
	Domestic .	Annual ARID					
8.	➤ Domestic  Mode of disposal of treated effluent	Approx. 4 KLD On surface wat	er – wa	ter from	hottling	nlant and	
0.	(Details)	domestic waste	CI WC	itei mom	botting	piant and	
9.	Sample distributed into no. of parts (2/3)	Two (Sample For	m Bottlin	ng Plant)			
10.	Sludge disposal mode	Ash From Boilers	used for	I and fill:			
10.	Studge disposar filode	Asii Fiolii Bolleis	used for	Land Inin	ng		
11.	Effluent collection locations & analysis	Locations		Para	ameters		
	results (if collected)		pН	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	
	Outside (after filter) discharge from	CPCB Lab	7.37	387		(mg/l)	
	premises		/ 3/	307	600	12	
		Private Lab	7.40	240	661	12	
(I) In	formation regarding Bio-composting						
1.	Active area for bio compost preparation	NA					
	(m <sup>2</sup> )						
2.	Area for press mud storage (m <sup>2</sup> )	NA					
3.	Area for bio compost storage (m <sup>2</sup> )	NA					
4.	Spent wash storage capacity	NA					
5.	Availability of pressmud	NA					
	•						
6.	Quantity of compost prepared (Monthly	NA					
	statement of last year)						
7.	Quantity of pressmen procured (Monthly	NA					
	statement)						
		L					

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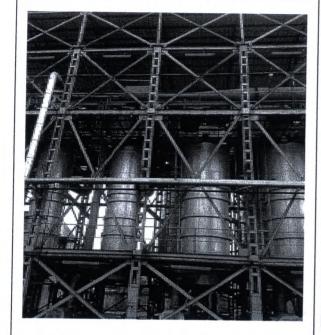
		3
8.	Details of wind roses (Number, length,	NA
	height, width of stacking, space between	
	two wind rose)	
9.	Quantity of Effluent being used for	NA
	composting (m³/day):	
10.	Quantity of press mud being used for one	NA
	cycle	
11.	Maturity time in days for one cycle	NA
12.	Arrangement for rainy season	NA
13.	Quality of ground water in the area and	NA
	depth of ground water table	
(II)	Information regarding Ferti-irrigation	
1.	Details of treatment of spent wash (details	NA
	of bio methanisation, primary and secondary treatment)	
2.	Command area for irrigation (available land	NA
	area)	
3.	System for dilution of treated effluent	NA
1	required for ferti-irrigation	NYA.
4.	System of transportation of treated effluent upto field.	NA
5.	Formal agreements with farmers for using treated effluent	NA
6.	Storage facility available for treated effluent during low demand period	NA
7.	Quality of effluent being used for ferti-	NA
	irrigation	
8.	Ground water monitoring network	Not available
C: Ai	r Pollution and its Control Sources of Air Pollution	Poilor China
1.	Sources of All Foliution	Boiler Chimney
2.	> Type of Fuel used with consumption	Concentrate from MEE & Husk (98-100TPD) Approx.
3.	> Stack details	Height 60 mtr. Sampler Point Height -30 Mtr
4.	> APCS details	1. Multi Cyclone
		2. Wet Scrubber
5.	Samples collections points (if collected)	<b>PM</b> (mg/Nm³): 96.0
	30 Meter	
	So Meter	
		NOT I
ngrba.	cpcb@gmail.com Distillery Format modified consid	ering NGT directions

# D. Route of effluent to reach river Ganga/Yamuna (Please indicate starting from the outlet drain of the unit)

Treated Effluent from Bottle rinsing discharged into Kali River which joins river Ganga & Distillery Unit zero Discharged.

1	Name of officials inspecting	Name & Designations	Signature
1	Traine of officials hispecting	Traine & Designations	Signature
		Navin Chandra Durgapal	
		Scientist – D	Naurapal
		CPCB, Delhi	Nave
		Pramod Mishra	
		Regional Officer	&
		UPPCB, Aligarh.	
		G.S. Srivastav	
		Assistant Environment Engineer	6 dec
		UPPCB, Aligarh.	
2	Date of report Submission	21'10'2014	

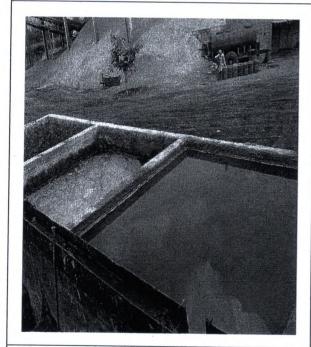
## Wave Distillery & Breweries Ltd., Ahmadpura Aligarh (Distillery Unit)

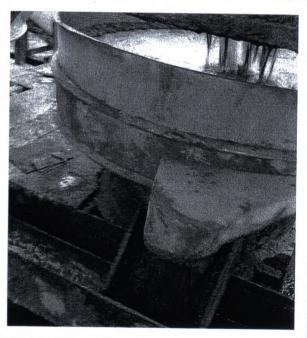




Multi Effect Evaporator (MEE)







**Collection of Ash** 





# CENTRAL POLLUTION CONTROL BOARD NGRBA Cell

#### **Joint inspection Report: Distillery**

Date of Inspection: 15.10.2014

<b>A</b> : <b>G</b>	General Information				
1.	Name of the unit and address	M/s. Wave Distillery & Brewaries Ltd., Village Ahmadpura, Ramghat Road, Tehsil-Atrauli, Disti Aligarh. (Brewaries Unit)			
2.	Name of the Proprietor/ Contact person : Designation : Contact No. :	Sri S.S. Singh Vice President Mob-9536920202			
3.	Year of Commissioning.	2011			
4.	Sector	Private			
5.	Production details.  Products Installed Prod. Cap. Consented Prod. Cap Restricted Prod. Cap.	Beer 1 Million H lr./Year			
6.	Raw materials & their requirement	Malt (15MTD) Sugar (5.5 MTD) Hops (75 KGD) Adjunct (17 MTD)			
7.	Operational status	Operating			
B: W	ater Pollution and its Control:	<u> </u>	· · · · · · · · · · · · · · · · · · ·		
1.	Water Supply Source	Ground Water (02 Nos. Tube Well)			
	Water Consumption (KLD)	Industrial Domestic	1600 KLD (Based on current production) approx. 10 KLD		
2.	Water Meter to show consumption	Available	·		
3.	Flow measuring device installed at outlet of ETP	f Available			
4.	Waste Water generation (KLD) (before treatment)  ➤ Industrial  ➤ Domestic	600 KLD (Based On Current Production) 8 KLD			
5.	Waste Water treatment capacity (KLD)  ➤ Industrial  ➤ Domestic	1420 KLD	0		



Details of ETP	1. Rece	iving Ta	nk		
> ETP Description with flow diagram	2. Bar Screen cum Grit Chamber				
	3. Equa	alizing cu	ım Neutra	lizing Tar	1k-02 No.
	_	_			02 1.01
		•			
			o-Digeste	er	
			•		
			ullilet 02	2110.	
			DR		
	10.1110	11033/10	DD		
Details of Reverse Osmosis plant, if any	_				
any	_				
Waste water discharged (after					
treatment)(KLD)					
➤ Industrial	Approx. 510	KLD (Bas	sed On cur	rent Produ	ction)
➤ Domestic					
	Total - 517 KLD				
-	Surface water	•			
(Details)					
Sample distributed into no. of parts (2/3)	Two parts				
Sludge disposal mode	ETP Sludge/Ash from boiler – Land Filling				
Efficient collection leasting & analysis					
	Locations				
results (if confected)		pii	1	1	(mg/l)
Final Outlet of ETP	CPCB Lab.	8.73	18	35	63
	Private Lab	8:50	20	58	71
formation regarding Bio-composting			1		
Active area for bio compost preparation (m <sup>2</sup> )			NA	,	
1 '		****	NA		
Area for bio compost storage (m <sup>2</sup> )			NA		
Spent wash storage capacity			NA		
Availability of pressmud			NA		
Quantity of compost prepared (Monthly	NA NA				
statement of last year)					
			NA		
statement of last year)  Quantity of pressmen procured (Monthly			NA NA		
	<ul> <li>ETP Description with flow diagram</li> <li>Details of Reverse Osmosis plant, if any</li> <li>Details of Multi Effect Evaporator, if any</li> <li>Waste water discharged (after treatment)(KLD)</li> <li>Industrial</li> <li>Domestic</li> <li>Mode of disposal of treated effluent (Details)</li> <li>Sample distributed into no. of parts (2/3)</li> <li>Sludge disposal mode</li> <li>Effluent collection locations &amp; analysis results (if collected)</li> <li>Final Outlet of ETP</li> <li>formation regarding Bio-composting</li> <li>Active area for bio compost preparation (m²)</li> <li>Area for press mud storage (m²)</li> <li>Area for bio compost storage (m²)</li> <li>Spent wash storage capacity</li> <li>Availability of pressmud</li> </ul>	2. Bar 3 3. Equate 4. Prim 5 5. Bufff 6. Anace 7 7. Aera 8. Seco 9. Gas 10. Filte 9  Details of Reverse Osmosis plant, if any > Details of Multi Effect Evaporator, if any 9  Waste water discharged (after treatment)(KLD) > Industrial   Approx. 7 KI Total - 517 K Mode of disposal of treated effluent (Details)    Sample distributed into no. of parts (2/3)   Two parts    Sludge disposal mode   ETP Sludge/A    Effluent collection locations & analysis results (if collected)    Final Outlet of ETP   CPCB Lab.    Frivate Lab    Formation regarding Bio-composting    Active area for bio compost preparation (m²)    Area for press mud storage (m²)    Area for bio compost storage (m²)    Spent wash storage capacity    Availability of pressmud	2. Bar Screen cu 3. Equalizing cu 4. Primary Clari 5. Buffer Tank 6. Anaerobic Bi 7. Aeration Tanl 8. Secondary Cl 9. Gas Holder 10. Filter Press/S  Details of Reverse Osmosis plant, if any Details of Multi Effect Evaporator, if any Waste water discharged (after treatment)(KLD) Industrial Domestic  Mode of disposal of treated effluent (Details)  Sample distributed into no. of parts (2/3)  Sludge disposal mode  Effluent collection locations & analysis results (if collected)  Final Outlet of ETP  formation regarding Bio-composting  Active area for bio compost preparation (m²) Area for press mud storage (m²)  Spent wash storage capacity Availability of pressmud	2. Bar Screen cum Grit C 3. Equalizing cum Neutra 4. Primary Clarifier 5. Buffer Tank 6. Anaerobic Bio-Digeste 7. Aeration Tank—02 No. 8. Secondary Clarifier—02 9. Gas Holder 10. Filter Press/SDB  > Details of Reverse Osmosis plant, if any > Details of Multi Effect Evaporator, if any  Waste water discharged (after treatment)(KLD) > Industrial > Domestic  Mode of disposal of treated effluent (Details)  Sample distributed into no. of parts (2/3)  Sample distributed into no. of parts (2/3)  Sludge disposal mode  Effluent collection locations & analysis results (if collected)  Effluent collection locations & analysis results (if collected)  Final Outlet of ETP  CPCB Lab.  Private Lab  Screen cum Grit C 3. Equalizing cum Neutra 4. Primary Clarifier 5. Buffer Tank 6. Anaerobic Bio-Digeste 7. Aeration Tank—02 No. 8. Secondary Clarifier—02 9. Gas Holder 10. Filter Press/SDB  - Approx. 510 KLD (Based On cur Approx. 7 KLD Total - 517 KLD  Surface water  (Details)  Sample distributed into no. of parts (2/3)  Two parts  Effluent collection locations & analysis results (if collected)  Effluent collection locations & analysis results (if collected)  Final Outlet of ETP  CPCB Lab.  Private Lab  Scrodary Clarifier 5. Buffer Tank 6. Anaerobic Bio-Digeste 7. Aera for pice composting  Active area for bio compost preparation (m³)  NA Area for press mud storage (m²)  NA Area for bio compost storage (m²)  NA Availability of pressmud  NA	2. Bar Screen cum Grit Chamber 3. Equalizing cum Neutralizing Tar 4. Primary Clarifier 5. Buffer Tank 6. Anaerobic Bio-Digester 7. Aeration Tank-02 No. 8. Secondary Clarifier-02 No. 9. Gas Holder 10. Filter Press/SDB  > Details of Reverse Osmosis plant, if any > Details of Multi Effect Evaporator, if any Waste water discharged (after treatment)(KLD) > Industrial > Domestic  Mode of disposal of treated effluent (Details)  Sample distributed into no. of parts (2/3)  Sludge disposal mode  ETP Sludge/Ash from boiler – Land Filling  Effluent collection locations & analysis results (if collected)  Final Outlet of ETP  CPCB Lab.  Private Lab  Sor

26

	two wind rose)	
9.	Quantity of Effluent being used for composting (m³/day):	NA
10.	Quantity of press mud being used for one cycle	NA
11.	Maturity time in days for one cycle	NA
12.	Arrangement for rainy season	NA
13.	Quality of ground water in the area and depth of ground water table	NA
		garding Ferti-irrigation
1.	Details of treatment of spent wash (details of bio methanisation, primary and secondary treatment)	NA
2.	Command area for irrigation (available land area)	NA
3.	System for dilution of treated effluent required for ferti-irrigation	NA .
4.	System of transportation of treated effluent upto field.	NA
5.	Formal agreements with farmers for using treated effluent	NA
6.	Storage facility available for treated effluent during low demand period	NA
7.	Quality of effluent being used for ferti- irrigation	NA
8.	Ground water monitoring network	Not Available
C: Ai	r Pollution and its Control	
1.	Sources of Air Pollution	Boiler Chimney
2.	> Type of Fuel used with consumption	Husk (35 TPD)
3.	> Stack details	Height 90 Ft.
4.	> APCS details	Multi Cyclone Dust Collector & Bag filter
5.	Samples collections points (if collected)	PM (mg/Nm³): 128.0
***************************************	Sample Point 40 Feet above from ground	

No.



26

	two wind rose)	
9.	Quantity of Effluent being used for composting (m³/day):	NA
10.	Quantity of press mud being used for one cycle	NA
11.	Maturity time in days for one cycle	NA
12.	Arrangement for rainy season	NA
13.	Quality of ground water in the area and depth of ground water table	NA
	(II) Information re	garding Ferti-irrigation
1.	Details of treatment of spent wash (details of bio methanisation, primary and secondary treatment)	NA
2.	Command area for irrigation (available land area)	NA
3.	System for dilution of treated effluent required for ferti-irrigation	NA
4.	System of transportation of treated effluent upto field.	NA
5.	Formal agreements with farmers for using treated effluent	NA
6.	Storage facility available for treated effluent during low demand period	NA
7.	Quality of effluent being used for ferti- irrigation	NA
8.	Ground water monitoring network	Not Available
C: Ai	r Pollution and its Control	
1.	Sources of Air Pollution	Boiler Chimney
2.	> Type of Fuel used with consumption	Husk (35 TPD)
3.	> Stack details	Height 90 Ft.
4.	> APCS details	Multi Cyclone Dust Collector & Bag filter
5.	Samples collections points (if collected)	PM (mg/Nm³): 128.0
	Sample Point 40 Feet above from ground	

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# D. Route of effluent to reach river Ganga/Yamuna (Please indicate starting from the outlet drain of the unit)

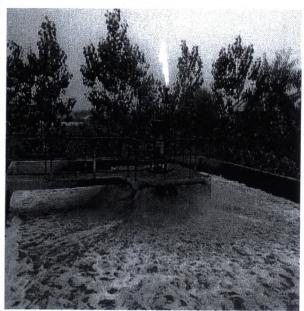
Kali River – Ganga River

1	Name of officials inspecting	Name & Designations	Signature
		Navin Chandra Durgapal	A of
		Scientist – D	1) Courseport
		CPCB, Delhi	1000
		Pramod Mishra	
		Regional Officer	
		UPPCB, Aligarh.	
		G.S. Srivastav	( X ==
		Assistant Environment Engineer	6.80
		UPPCB, Aligarh.	
2	Date of report Submission	21.10.2014	

#### Wave Distillery & Breweries Ltd., Ahmadpura Aligarh (Brewery Unit)

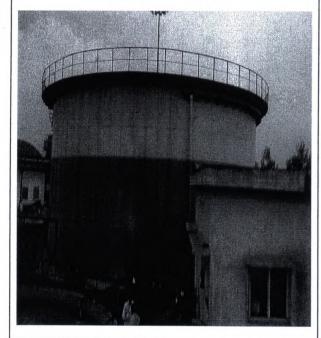






Receiving & Equalization tanks (top to down)

Aeration tank and in the background flaring of Methane Gas







Stack

Auge 29

## Central Pollution Control Board

### Inspection & monitoring Report

Sr.	Item			Details	,		
No.				Details			
1.0	Name and complete postal address of the industry	Harduaganj Thermal Power Plant (HTPS), Kasimpur Aligarh, UP					simpur,
2.0	Contact peroson &	Shri Ranjan	Srivastav,	SE (Civi	il)		
	Telephone/Fax/E-mail	Shri Nishith	Sharma,	Xen (Civi	1)		
3.0	Date of Visit	September 15-16, 2014					
4.0	Name of the officials visiting the unit	the Dr. S.K. Paliwal, Sc C, CPCB Sh. P.Krishnamurthy, Sc					
	unt	Sh. P.Krishi Sh K.P. Rat					
		Sii K.I. Kai	un, SLA,	CPCB			
	2	Besides, SS	O. UPPCE	B. Aligarh	also pre	esent du	ring the
		inspection &	monitori	ng.	anso pre	sent au	anng the
5.0	Purpose of visit	Inspection	& monito	oring of	Hardua	iganj T	Thermal
	. 4	Power Stati	on, NTPC	in comp	liance to	o the c	order of
6.0	Industry D.4-31	the Hon,ble	NGT, Nev	v Delhi			
	Industry Details:						
6.1	Products & Production capacities	Coal based power plant: 670MW					
		(1x60 MW,			I, 2x250	) MW s	tage II)
		Total	:	670MW			
6.2	Main Raw Materials & their	11 1	materials	s Quar	ntity		
	consumption	1. Wate		4051	C 70 3/	1	
		2. Coal		1.91	$\frac{6.79 \text{m}^3}{6.79 \text{m}^{3/6}}$	aay n tonne	/21200
6.3	Source of raw water			1.71	111111101	ii toilile	year
		Upper Gang	a canal				
7.0	Effluent Management:						
7.1	Water consumption,			Wa	ter Cor		ion
	Effluent generation and ETP capacity	D				day)	
	ETT capacity	Domestic	D		2091		
		Industrial Cooling wa			1653 3088		
		Total	att1		15174		
	,	Installed cap	pacity of S'	TP: 1.4 M		17.77	
7.2	Name of the treatment units in	in CMB followed by Clariflocculation and settli				settlin	ıg
	ETP		*				
7.3	Disposal of Treated effluent	Ash pond et (UGC)	ffluent is d	ischarged	upper (	Ganga C	Canal
7.4	Adequacy of the STP and ash	Source	pН	TSS	COD	BOD	Oil
	pond effluent						&
							Grea se
		STP	8.0	18	19	04	-
					1		

		Ash pond over	8.	05	19			BDL
		flow						
			oncer	ntration	are in mg	$\frac{1}{\sqrt{1}} \exp \left( \frac{1}{2} \right)$	cent nH	
	*	1			_		5, TSS: 10	0 mg/l
							& Oil& Gre	
		mg/l	0	,		,		
7.5	Operational Status		STP	was un	der opera	tion		
8.0	<b>Emission Control Systems (ECS</b>							
8.1	Name of the emission control units in the system	The details are as follow:						
		Unit N Proce			k Height	E	CS	
		5			90 m		lectrostatic	
		7			90 m		recipitators lectrostatic	
		'			70 III		recipitators	
		8		-	275 m		lectrostatic	
					273 111		recipitators	
		9			275 m		lectrostatic	
						1	recipitators	
8.2	Fuel consumption	Sr.No.	Fue	l			antity	
		1.	Coa	1		0.70	07 kg /KWh	
		2.		nace oil			24 ml/KWh	
8.3	Adequacy of the ECS	Unit			ılate matt		Emission	Limit
	(Adequate / Not adequate)		- 1	mg/Nr		C1 (	(mg/Nm.	
		5			operation		150	
		7		Monito		ility	150	
			- 1	not ex	_			
		8		tripped	l		100	
		9		70.4-7			100	
			- 1	(correction CO2)	cted to	12%		
8.4	Operational Status						been phase	
		Unit 5 w operation.		nder R	&M while	e uni	it 7-9 were	under
9.0	Solid waste Management:							
9.1	Flyash Generation, Storage &	FI	Flyash Qu		Ouant	entity during 2013-14		
	Disposal Facility		eratio				illion tonne	
			Ash Pond area					
						on tonne (6	51%)	
9.2	Adequacy of storage & disposal facility	bottom as	sh & nich a	unutili re pro	sed flyash vided lea	is d chate	dry form. lischarged in	nto ash facility
		and prov	ided	with g	arland dra	ain.	Total area	for ash

		mound is earmarked about 650 acres. Presently, about 61 % flyash is utilised for cement & brick					
		manufacturers. One cement grinding unit has been					
		installed which using flyash from HTPS for cement is					
		making.					
10.0	Status of Consent under the	The consents under the Water Act, 1974 & Air Act,					
	Water Act, 1974 & Air Act,	1981 for unit 8 & 9 are valid upto December 31,					
	1981, and Status of the	2015. While consents for unit 5&& have been					
	Authorization under the	rejected.					
	Hazardous Waste (M & H)	HTPS has no valid authorization under the Hazardous					
	Rules, 1989 & amendment there	Waste (M & H) Rules, 1989. Neither HTPS has					
	off	applied nor UPPCB has directed for the same.					
12.0	Observations:						

- 1. HTPS, Aligarh has total installed capacity of 560 MW comprising 4 (1x 60 MW, 1x 110 MW) & 2x250 MW). However, during inspection period, about unit nos 7-9 were under operation.
- 2. The concentration of pollutants w.r.t pH, TSS, COD & BOD (para 7.4) in effluent from ash pond and STP are found within the prescribed limit of respective parameters.
- 3. The industry has valid consents to operate under Air & Water Acts 1981 & 1974 respectively for unit 8&9 while UPPCB has rejected consents for unit 5&7 as units were under renovation and modernization.
- 4. It was informed that HTPS neither applied for authorization under the Hazardous Waste (M & H) Rules, 1989 nor UPPCB has directed for the same.
- 5. Flyash is collected is collected in dry form and stored in silos as intermediate storage. While bottom ash & unutilised flyash is discharged into ash ponds which are provided leachate collection facility and provided with garland drain. Total area for ash mound is earmarked about 650 acres.
- 6. Presently, about 61 % flyash is utilised for cement & brick manufacturers. One cement grinding unit has been installed near to HTPS which using flyash from HTPS for cement is making.
- 7. The stack emission monitoring from unit 7 of old pant (stage I) could not be carryout as there was no monitoring facility at the stack. Similarly, monitoring facility provided at unit 8 & 9 was also not appropriate. The monitoring was carryout in unit No 9 through the port hole provided for installation opacity meter. Particulate matter emission was found to be within the 100 mg/Nm3. Stack emission monitoring in unit 8 could not be carriedout as the unit was tripped during the monitoring.
- 8. Opacity meters installed in unit nos 8 & 9 are not yet commissioned.
- 9. Over all house keeping in all plant areas was very poor. Unused and scrap material was found lying unsystematically.
- 10. HTPS has out sourced the stack emission and effluent monitoring. The sampling carried out by the agency was not representative for stack emission since there was no adequate monitoring facility is proved in the stacks as per the guidelines (Emission regulation part III) prescribed by CPCB.

#### 13.0 | Recommendations:

Based on the observations and results of monitoring, following recommendations are made:

- 1. Harduaganj Thermal Power Plant ( HTPS) should obtain valid consents to operate under Air & Water Acts 1981 & 1974 respectively for unit 5&7 which has been rejected by UPPCB and when units are commissioned and Commercial operation is declared.
- 2. HTPS should get authorization under the Hazardous Waste (M & H) Rules, 1989 from UPPCB for disposal of hazardous waste like used oil & grease immediately
- 3. In order to prevent fugitive dust emission from silo during transfer of flyash from boiler vis a vis loading to trucks, HPTs should provide adequate pollution control systems like bag filer at each transfer point.
- 4. It was observed that ash pond effluent ( though confirming the discharge limit0 are discharged into near by canal. It is suggested that HTPS should provide Ash Water recirculation system to prevent any discharge to Upper Ganga Canal.
- 5. HPTS should explore more areas for augmenting flyash utilisation to reach 100 % level from existing about 61 %.
- 6. HTPS should provide stack emission monitoring facilities in all 04 operating units as per the guidelines prescribed by the CPCB immediately.
- 7. Opacity meters installed in unit nos 8 & 9 should be commissioned and continuous emission data reporting be linked to servers of CPCB and SPCB as per directions issued by the CPCB/SPCB.
- 8. HTPS should make all efforts in time bound manner to improve housekeeping in all plant areas. Unused and scrap material which is lying unsystematically, should be stored in a designated marked area.
- 9. HTPS has out sourced the stack emission and effluent monitoring. The sampling carried out by the agency may not be adequate for stack emission as there is no appropriate monitoring facility are proved in the stacks.

Signature of CPCB Officials

(Dr. S. K. Paliwal)

Scientist c

(Shri. P. Krishnamurthy) Scientist c

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