THE UGAR SUGAR WORKS LIMITED

Works ▪ Ugarkhurd-591316, Dist-Belagavi. Karnataka
E-mail ▪ helpdesk@ugarsugar.com
Regd. Office ▪ Mahaveernagar, Sangli-416 416. Maharashtra
E-mail ▪ usw.sangli@ugarsugar.com
ECC No. ▪ AAACT7580 RXM001
CIN - ▪ L15421PN1939PLC006738

Phone ▪ +91 8339 272230 (5 Lines)
Website ▪ www.ugarsugar.com
Phone ▪ +91 233 2623717, 2623716
TIN No. ▪ 29520007001
SERVICE TAX NO. ▪ AAACT 7580 RST 004

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PAN No. ▪ AAACT-7580-R

Env/2016-17/ 3158

Date:05.07.2016

To,

Shri. I. K. Bokolia
The Additional Director (I.A.Division)
Government of India,
Ministry of Environment & Forests,
Paryavan Bhavan,
CGO Complex, Lodhi Road,
New Delhi – 110 003.

Sub: Environment Clearance for expansion of Sugar Cane capacity(10000 TCD to 20000 TCD), Co- generation Power Plant (From 44 MW to 75 MW) & Molasses based Distillery (From 75 KLPD to 200 KLPD) - Committment letter

Ref: Appraisal Committee Meeting on 11th Feb,2016

Respected Sir,

We are giving here under the commitment for installing the ESP instead of wet scrubber. before start of crushing season at expanded capacity of 20000 TCD.

The details are given as bellow.

Sr No.	Stack Name	APC status	Committment
1	MYS 1736 50 TPH	Wet Scrubber	New ESP
2	MR 8597, & MR 8598, 60 TPH- 2 Nos.	Wet Scrubber	New ESP
3	KTK 2272 70 TPH	ESP	Existing
4	KTK 2404 80 TPH	ESP	Existing

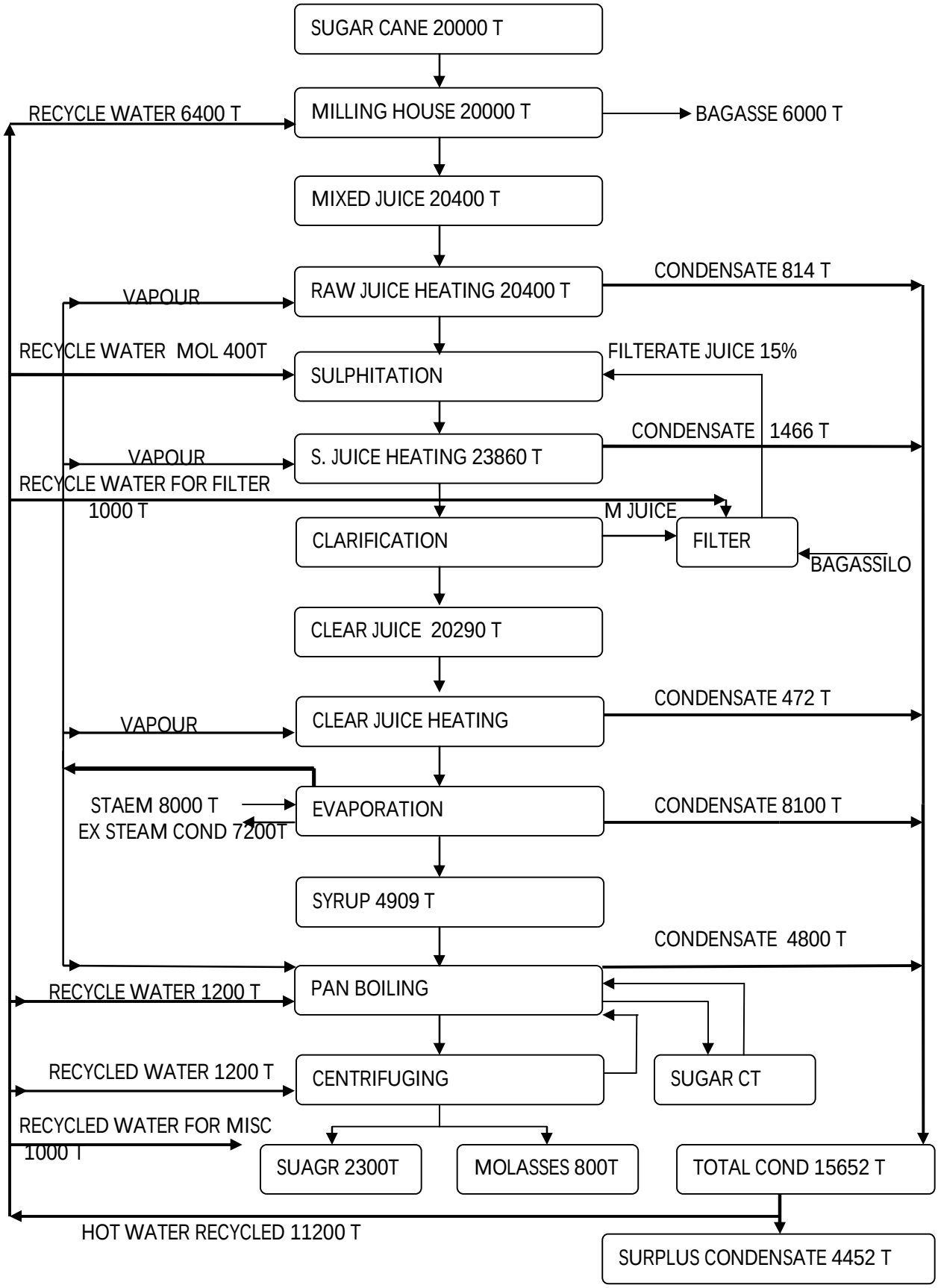
Thanking you,

Yours faithfully
For The Ugar Sugar Works Ltd.

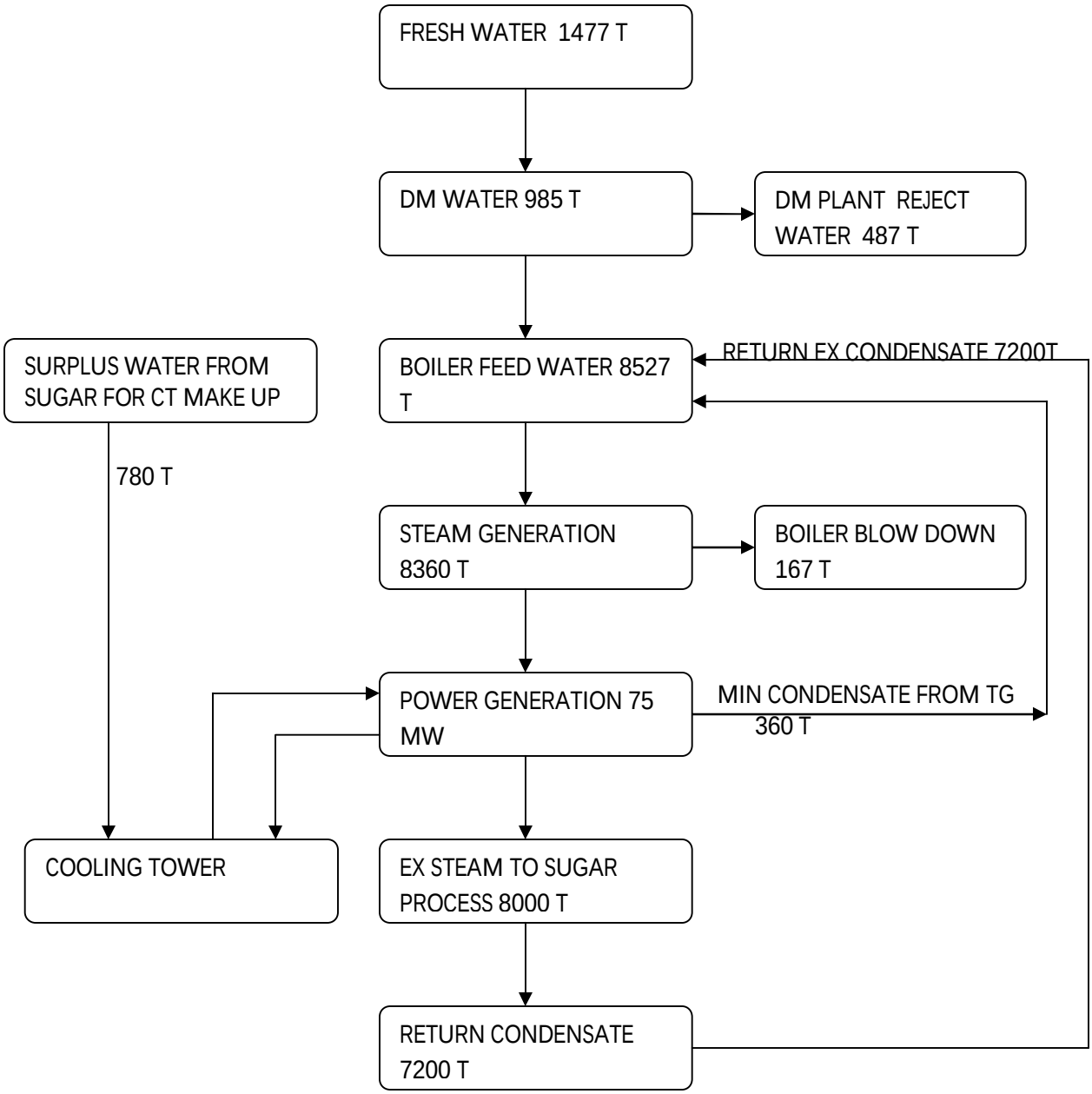
Managing Director

Generated by CamScanner from intsig.com

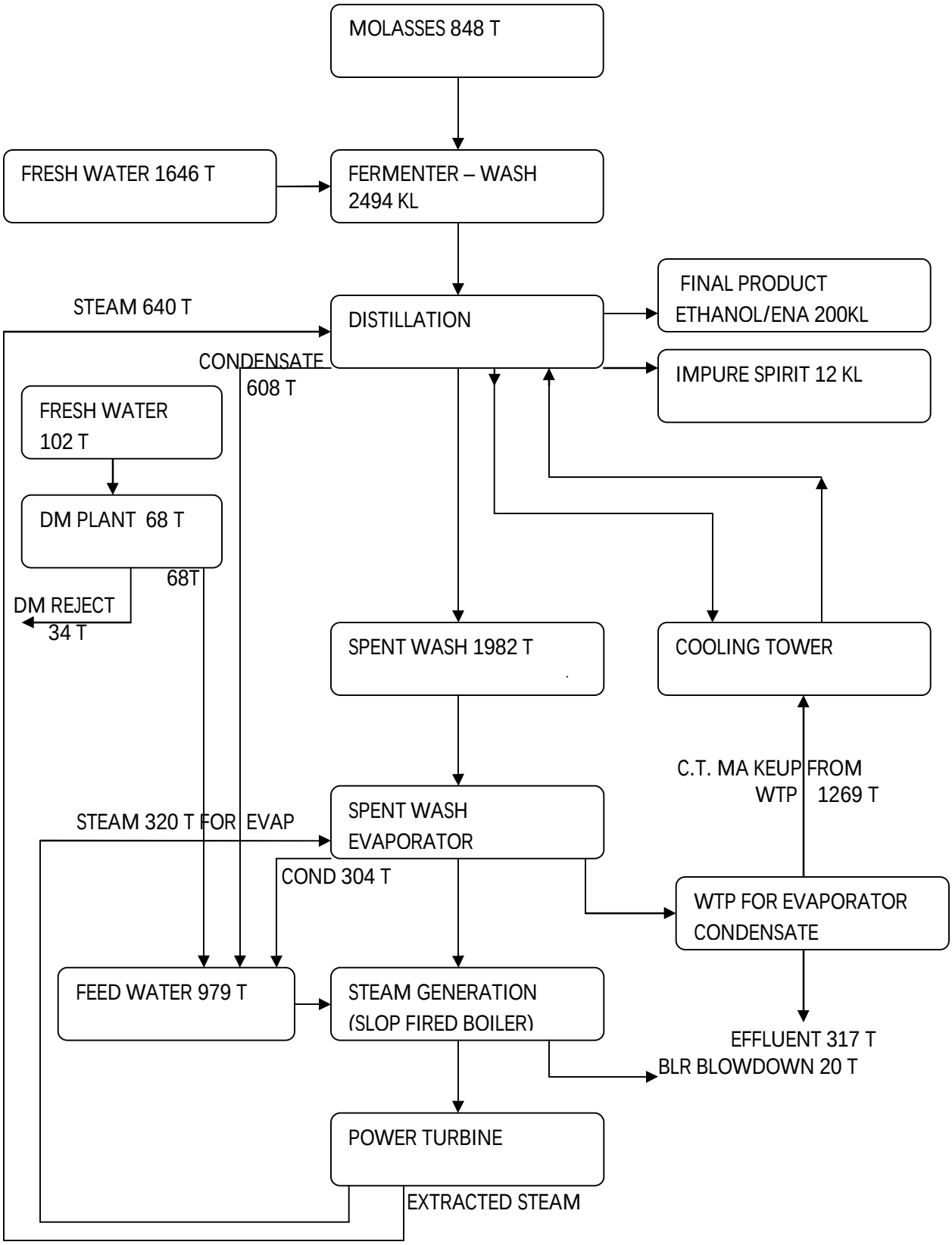
WATER BALANCE FOR 20000 TCD SUGAR PLANT (QTY PER DAY)

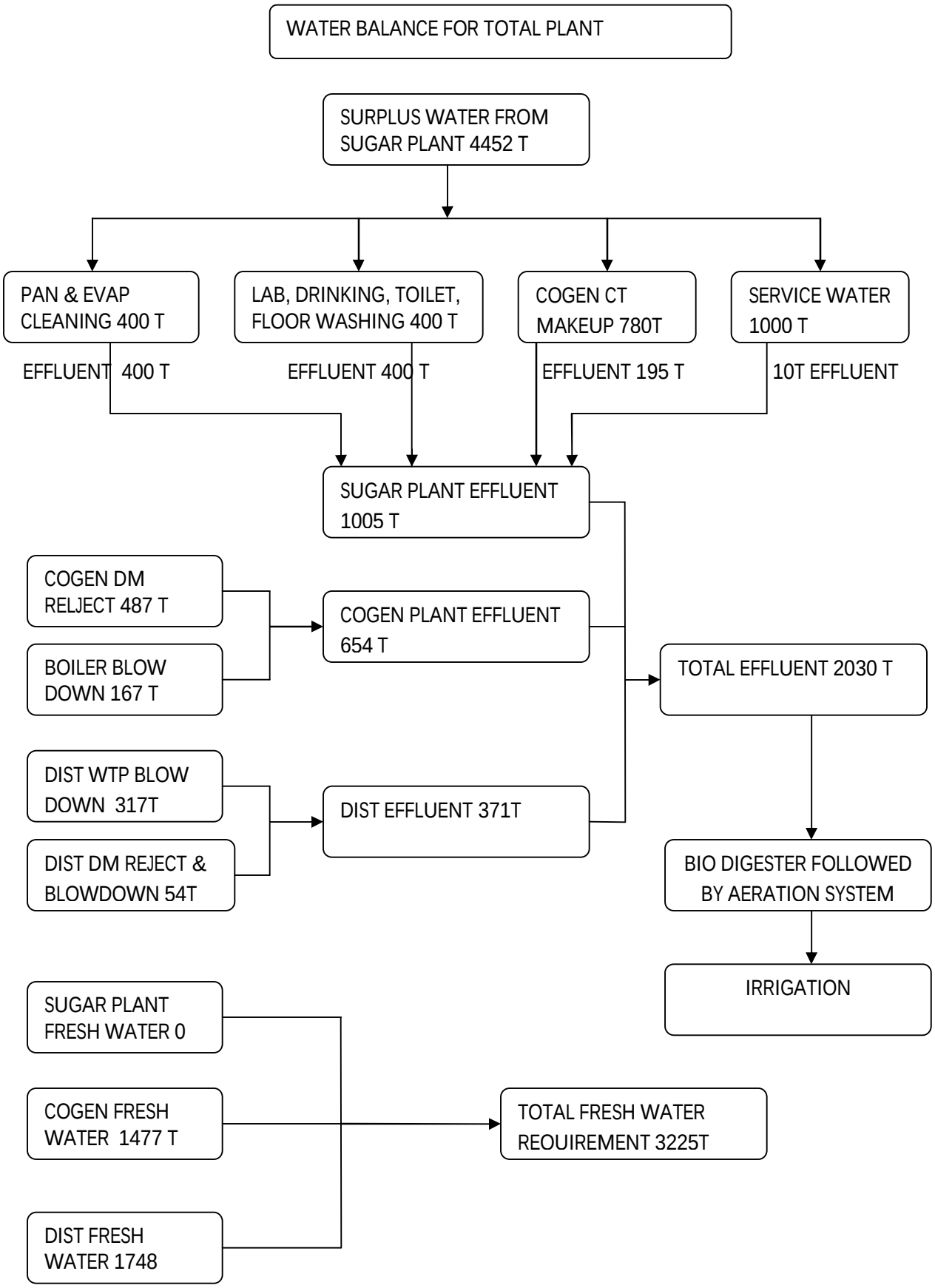


WATER BALANCE FOR COGENERATION 75 MW



WATER BALANCE FOR DISTILLERY PLANT 200 KLPD




WATER BALANCE FOR TOTAL PLANT
SURPLUS WATER FROM SUGAR PLANT 4452 T
PAN & EVAP CLEANING 400 T
LAB, DRINKING, TOILET, FLOOR WASHING 400 T
COGEN CT MAKEUP 780T
SERVICE WATER 1000 T
EFFLUENT 400 T
EFFLUENT 400 T
EFFLUENT 195 T
10T EFFLUENT
SUGAR PLANT EFFLUENT 1005 T
COGEN DM RELJECT 487 T
BOILER BLOW DOWN 167 T
COGEN PLANT EFFLUENT 654 T
TOTAL EFFLUENT 2030 T
DIST WTP BLOW DOWN 317T
DIST DM REJECT & BLOWDOWN 54T
DIST EFFLUENT 371T
BIO DIGESTER FOLLOWED BY AERATION SYSTEM
IRRIGATION
SUGAR PLANT FRESH WATER 0
COGEN FRESH WATER 1477 T
DIST FRESH WATER 1748
TOTAL FRESH WATER REOUIREMENT 3225T

Annexure – III

	Description	Nature of Exp	2016-17	2017-18	2018-19	2019-20	2020-21
Ugar							
	SCHOOL		7,08,747	7,44,185	7,81,394	8,20,463	8,61,487
	COLLEGE		24,10,462	25,30,985	26,57,534	27,90,411	29,29,931
	ITI		5,97,864	6,27,757	6,59,145	6,92,102	7,26,707
	BALAMANDIR		1,47,939	1,55,336	1,63,103	1,71,258	1,79,821
	SOCIAL WELFARE EXI	Road construction	34,82,314	36,56,429	38,39,251	40,31,213	42,32,774
	GYMKHANA,VIHAR	Gym Equipments	4,33,152	4,54,809	4,77,550	5,01,427	5,26,499
	Hospital		1,14,33,732	1,20,05,419	1,26,05,690	1,32,35,974	1,38,97,773
			1,92,14,210	2,01,74,920	2,11,83,666	2,22,42,849	2,33,54,992
	Others		2,61,967	2,75,066	2,88,819	3,03,260	3,18,423
Expenditure on CSR			1,94,76,177	2,04,49,986	2,14,72,485	2,25,46,109	2,36,73,415

Annexure - IV

Greenbelt Development Plan at The Ugar Sugar Works Ltd, Belgaum.

1	Total extent of Land	100.50 Ha
2	Built up area	60.06 Ha
3	Atea under green belt	38.08 Ha
4	Land balance for green belt	2.36 Ha

Source of seedling made availiable seedlings purchased from three reputed nurseries

a) Agro Forestry University of Agricultural Ascience Dharwad (Karnataka)

Receipt No. 0022345 and 01847 in the name of The Ugar Sugar Works Ltd.,

b) Datta Shetkari Sahakari Sakhar Karkhana Ltd., Shirol Dist Kohapur (Maharastra)
Receipt No. 2035 and 1933.

c) Range Forest Officer, Kokatnur, Disr.Belagavi.Govt,of Karnataka.

d) West coast Paper Mills, Dandeli agreed to supply sapling in 1st week of 10. June 2016,

Tree species planted under Greenbelt over an area of 38 Ha

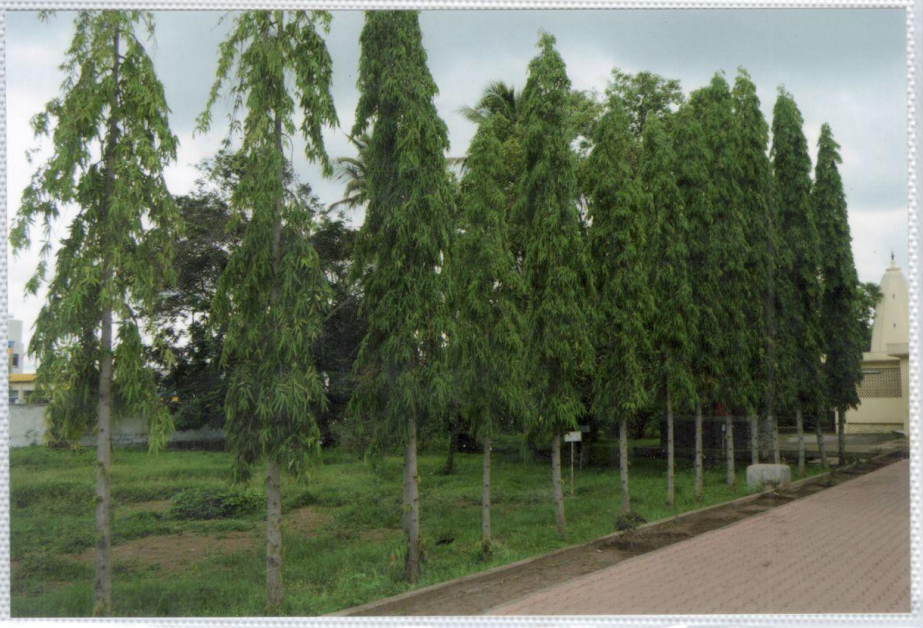
1. Coconut	2. Drooping Ashok,

3. Palms,	4. Gooseberry
5. Peltophorum	6. Curryleaf
7. Gulmohar	8. Drumstick.
9. Hibiscus,	10. Neem
11. Wondeful Foliase and flowering plants,	12. Silver Oak
13. Boganvelia as hedge,	14. Spathodia
15. Cajurina	16. Jakaranda
17. Jatropa curcas (Now stopped planting as found not suitable)	18. Casia pistula
19. Pongemia pinata (performing very well)	20. Wild Badam
21. Pelthophorum	

Massive tree plantation programme is being implemented with the help of scool boys, NSS, College student, Lions Club, Mahila Mandal , Vinayakarao Shirgaokar Charitable Trust , ITI etc.,

Target fixed is 800 saplings to be planted between June 2016, and October 2016, under the guidence of Principle Scienctist and OIC, AICRP on Agro Forestry, UAS Dharwad and Deputy Conservator of Forests , Gokak(DIst-Belgavi)

Album indicating various species planted in ETP area



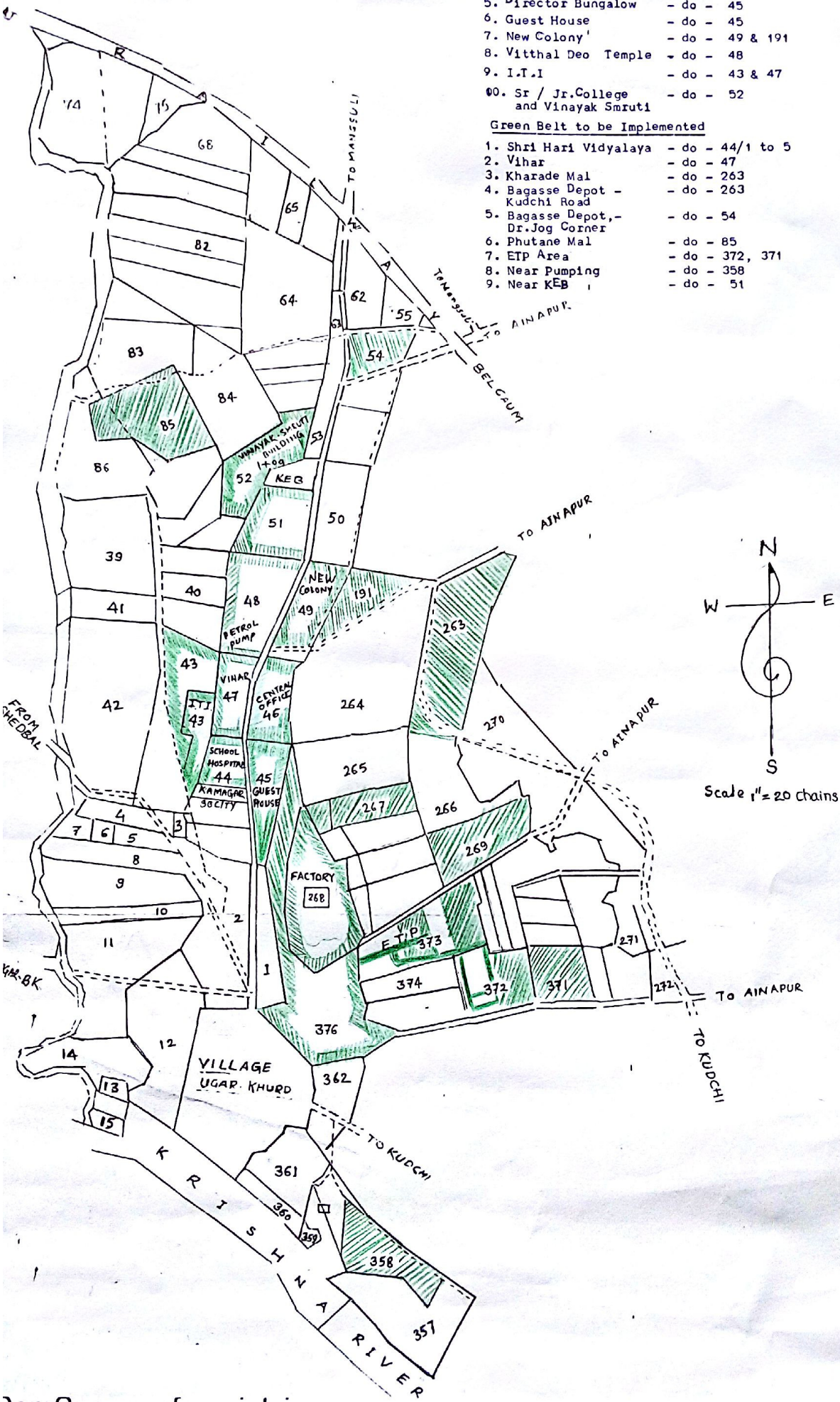
VILLAGE · UGAR-KHURD
TAL:- ATHANI
LANDS OF THE U.S.W LTD

Green Belt Implemented

1. ETP Area	R.Sy.No.372
2. Central Office	R.Sy.No. 46
3. Factory area	R.Sy.No.267,268,376,269
4. Bal Mandir	R.Sy.No.45
5. Director Bungalow	- do - 45
6. Guest House	- do - 45
7. New Colony'	- do - 49 & 191
8. Vitthal Deo Temple	- do - 48
9. I.T.I	- do - 43 & 47
00. Sr / Jr.College and Vinayak Smruti	- do - 52

Green Belt to be Implemented

1. Shri Hari Vidyalaya	- do - 44/1 to 5
2. Vihar	- do - 47
3. Kharade Mal	- do - 263
4. Bagasse Depot - Kudchi Road	- do - 263
5. Bagasse Depot,- Dr.Jog Corner	- do - 54
6. Phutane Mal	- do - 85
7. ETP Area	- do - 372, 371
8. Near Pumping	- do - 358
9. Near KEB	- do - 51



Annexure -V

GOVERNMENT OF INDIA
Ministry of Environment and Forests
(Regional Office, Southern Zone)
Bangalore-34
MONITORING REPORT
PART – I

F. No. EP/12.1/137/KAR
Date : -25.02.2015

1	Project type	Industry
2	Name of the project	45 KLPD Distillery Unit at of M/s. Ugar Sugar works Ltd at Athani Taluk, Belgaum District, Karnataka – reg.,
3	Clearance letter no. & date	MoEF. Lr. No. J-11011/80/99-IA II, dated: 17.08.2000
4	Location: District & State / UT	THE UGAR SUGAR WORKS LIMITED. UGARKHURD – 591 316. DIST . BELGAUM KARNATAKA STATE.
5	Address for correspondence:	THE UGAR SUGAR WORKS LIMITED. UGARKHURD – 591 316. DIST . BELGAUM KARNATAKA STATE.?
6	Financial Details:	
a	Project cost as originally planned and subsequent revised estimates and the years of price reference	2 Crores in the Year 1994
b	Allocations made for environmental management plans, with item wise and year wise breakup	It is a continual improvement since 1995 as needed such as MEE and Dryer for bio mathanated effluent treatment,constructions of 5 Nos of digesters,generation of bio-gas as a fuel.
c	Total expenditure on the Project so far	
d	Actual expenditure incurred on the environmental management plans so far	25 Crores for APC and WPC
7.	Status of construction:	
a.	Date of commencement	**1995**
b.	Date of completion (actual and/or planned)	**1995**
8	Date of site visit :	
a.	The dates on which the project was monitored by the Regional Office on previous occasions, if any	14.6.2002, 22.12.2004 & 22.3.2011
b.	Date of site visit for this monitoring report	08/01/15

The project was monitored on 08.01.2015 along with Smt. Geetha-EO (PCB) and the details were discussed with _____

DATA FOR THE YEAR APRIL - 2013-MARCH -2014

Sr.No.		SUGAR	DISTILLERY	CO-GENRATION
1	INSATALATIONS	10,000 TCD	75 KLPD	44 MW
2	Consented Capacities	10,000 TCD	75 KLPD	44 MW
3	Actual Production	Crushing -1320081.375 Bagging -1530750	8425.50 KL	92417700 Kwh
			Spent Wash -101106_____ Spent Lee 16851 _____	
4	No. of Working Days	128 Days	130 Days	130 Days
5	Sludge Generation	Distillery ETP Sludge	1400 MT (12% Solids) 260 MT	

SPECIFIC CONDITIONS :

i) The existing 30 KLPD distillery should not be operated without the prior approval of this Ministry.

-Project authorities have obtained clearance of the Ministry for operating 30 KLPD distillery vide letter No. MoEF Ir No.J/11011/80/99-1 A. II (M),dated;7.11.2003,in addition to 45K LPD distillery Unit.

ii) The industry should ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances / failure of pollution control equipment's adopted by the unit, the respective unit should be shut down and should not be restarted until the control measures are rectified to achieve the desired efficiency.

The treated effluent and stack emissions of the unit are within the norms as per the analysis report given by the project authorities.

Effluents

From the distillery 1060 m3 of spent wash is reportedly generated every day and is subjected to bio-methanation followed by evaporation and spray drying. However, project authorities are not able to treat 100 % effluent quantity in the present system due to shortage of bagasse fuel. Hence, they have started to use 270 M3 / day effluent (after bio-digestion) for One Time Controlled Land Application in the farmer's land under the guidance of Dharwad Agricultural University. The project authorities have also sent a letter regarding one time land application along with Proposal of U.A.S. Dharwad to Karnataka State Pollution Control Board Bangalore vide our letter No.Env./ 2009-10 / 11731 Date:22.01.2010. HAS THE PCB PERMITTED THE FERTI IRRIGATION?

Yes, KSPCB permitted fertiirrigaton for treated sugar factory effluent and OTCLA for bio methanated distillery effluent vide consent no. Addendum PCB/155/HPI/2014/1488 dated 20th February,2015

Latest Analysis report

The Ugar Sugar Works Limited

Ugar Khurd 591316

Stack monitoring, Ambient Air Quality, Noise Level & **Meteorological Data,** Monitored for the month of JANUARY- 2015 Date: -8.02.2015

A) Stack monitoring	SPM mg/Nm^3	SO_2 µg/Nm^3	NO_2 µg/Nm^3
1 Boiler 50TPH	32.2	19.4	10.3
2 Boiler 80TPH	19.56	20.2	6.4
3 Boiler 70TPH	17.48	16.16	8.15
4 Boiler 60TPHx2Nos.	26.73	17.35	9.6
B) Ambient Air Quality			
1) Pressmud biogas plant.	83	7.08	16.6
2) E.T.P. Site	80	5.94	15.22
3) Shri Hari Vidyalaya	78	6.04	13.83
C) Noise level / location	**dbA Day**	**dbA Night**	
1) 80 TPH Boiler	90	88	
2) 70 TPH Boiler	98	96	
3) 60 TPH Boiler	90	88	
4) 50 TPH Boiler	70	69	
5) Mill house 42 X 84	73	72	
6) Mill house 33 X 66	55	53	
7) Boiling House	85	84	
8) 45 KLPD Distillery	92	91	
9 Factory main gate	55	53	
10) Outside factory wall	90	88	
11) U.S.W Hospital	98	96	
D) Meteorological Data			
a) Ambient temp	Max 31	Min. 17	
b) Humidity.	69.2		
c) Wind speed	120	5 km/h	
d) Wind direction	East to West		
e) Rain Falls			

The Sugar factory effluent, spent lee & Domestic effluent is being treated in Sugar Factory Effluent Treatment Plant i.e. Equalization tank (tank Size: 30.5 m x 44.75 m x depth 3.5 m = Capacity-2700 cu.m), followed by two primary clarifiers (Size – 7.5 m dia x depth 3.5 m) followed by Defused aeration (tank Size: 49 m x 37 m x depth 3.5 m = Capacity – 4400) followed by two Secondary Clarifiers (Size – 9.00 m dia x depth 3.5 m). followed by chlorination & diluted with low pollutant & cooling tower overflow, having less than 100 mg/l BOD is being sent for ferti-irrigation .

Emissions

Please see under the following condition :

iii) Company should install electrostatic precipitators / wet scrubbing facilities to bring down the particulate matter emission from the boilers to 150 ug/3 to meet the norms stipulated by the KSPCB.

Electrostatic precipitators were installed for 70 TPH & 80 TPH boilers and wet scrubbers for the two 60 TPH boilers, and one 50 TPH boiler to bring down the particulate matter emission from the boilers to 150 ug/3 to meet the norms stipulated by the KSPCB.

iv) The AAQ should be regularly monitored in respect of SPM SO2 and Nox. The locations of the monitoring stations should be fixed up depending on the wind rose pattern during that period. The AAQ monitored during January, 2011 along with the corresponding plant characteristic data / emission rate and impact analysis should be submitted to the Ministry for review.

AAQ is monitored at three stations for SPM, SO_2 and NO_x. The locations of the monitoring stations are fixed up in consultation with SPCB Officials. The AAQ monitoring report shows that all the parameters are within limits. Give the locations of the stations and copy of the latest analysis may be attached.

Locations:Press mud bio-gas plant,Shri hari Vidyalay and ETP site

Latest Analysis report

A) Stack monitoring	SPM mg/Nm^3	SO_2 µg/Nm^3	NO_2 µg/Nm^3
1 Boiler 50TPH	32.2	19.4	10.3
2 Boiler 80TPH	19.56	20.2	6.4
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B) Ambient Air Quality			
1) Pressmud biogas plant.	83	7.08	16.6
2) E.T.P. Site	80	5.94	15.22
3) Shri Hari Vidyalaya	78	6.04	13.83

v) The quantity of waste water generated after expansion should not exceed 12 m3/K1 of product as prescribed under EPA. There will be no discharge of treated spent was from the distillery unit into any surface water body. The spent wash generated from the distillery should be treated as per the treatment scheme approved by KSPCB to meet the norms for land disposal. The entire treated effluent should be used for land irrigation. During monsoon period the treated effluent should be stored in a lined lagoon or operation of the distillery unit should be regulated so as to ensure there will be no discharge of treated spent was into surface water body due to monsoon run off.

The quantity of waste water generated after expansion is not exceeding 12 m3/K1 of product as prescribed under EPA

project authorities are not able to treat 100 % effluent quantity in the present system due to

shortage of bagasse fuel. Hence, they have started to use 270 M3 / day effluent (after bio-digestion) for One Time Controlled Land Application in the farmer's land under the guidance of Dharwad Agricultural University. The project authorities have also sent a letter regarding one time land application along with Proposal of U.A.S. Dharwad to Karnatak State Pollution Control Board Bangalore vide our letter No.Env./ 2009-10 / 11731 Date:22.01.2010. HAS THE PCB PERMITTED THE FERTI IRRIGATION?

Yes, PCB has given permission for ferti irrigation,vied consent No PCB/155/HP1/2011-12/1200,dated 12.11.2013 for treated sugar factory effluent and domestic sewage along with spent lease.
During monsoon period reportedly the treated effluent is being stored in a lined lagoon and operation of the distillery unit is being regulated so as to ensure there will be no discharge of treated spent was into surface water body due to monsoon run off. There is ZERO discharge of the dis
It means that,we are controlling the distillery rate and storing the raw spent wash as well as bio methanted effluent in lined lagoons and RCC tanks during monsoon,last year we produced only 84 lacs rectified spirit as against 2 lac ltrs. The biomethanted effluent is treated in MEE.

vi) Occupational health surveillance program in the factory must be strengthened to include Lung Function Test, Sputum analysis and chest X-ray for monitoring the health of workers especially those in the bagasse handling sections.

There are about 2000 workers. Occupational health surveillance program in the factory (including Lung Function Test, Sputum analysis and chest X-ray, blood pressure, Eye chekup) for monitoring the health of workers especially those in the bagasse handling sections is regularly conducted.

vii. The company must monitor the soil and ground water quality in the fields being irrigated by the treated effluent on a regular basis and submit half – yearly reports to CPCB / SPCB and the Ministry. The frequency of monitoring and location of monitoring station should be identified in consultation with the State Ground Water Board.

Soil and ground water quality is checked in the fields being irrigated by the treated effluent on a regular basis and reports are sent. The frequency WHAT ? of monitoring and location WHERE? of monitoring station is identified in consultation with the State Ground Water Board and University of Agricultural Sciences Dharwad..

Monthly Basis to RO & MS ,KSPCB
TOTAL HOW MANY STATIONS ? Give latest analysis report

In the vicinity of irrigated land in our command area. We are checking random samples

We have identified open well and bore well in our command area.
The latest analysis report.

The Ugar Sugar Works Limited, Ugar- Khurd
River water and ground water analysis report for the month of January - 2015

Sr No.	Parameters	January - 2015					
		1	2	3	4	5	6
1	pH	7.9	7.8	7.68	7.3	7.68	7.5
2	Co lour	C.Less	C.Less	C.Less	C.Less	C.Less	C.Less
3	Temperature	18c	17c	17c	18c	18c	17c
4	Total Hardness	508	504	320	720	872	440

5	Calcium Hardness	280	288	252	280	364	300
6	Magnesium Hardness	228	216	68	440	468	140
7	P. Alkalinity	Nil	Nil	Nil	Nil	Nil	Nil
8	M. Alkalinity	248	240	328	360	400	240
9	Chlorides	181	183	200	380	390	197
10	Conductivity	1024	1026	1580	1680	2090	1390
11	Total dissolved solids	486	487	591	685	698	615
12	Suspended solids	Nil	Nil	65	85	89	45
13	C.O.D.	Nil	Nil	Nil	6	8	Nil
14	B.O.D.	Nil	Nil	Nil	Nil	Nil	Nil
		1) River water up stream. 2) River water down stream. 3) Shri: -Katti well water 4) Shri: -Naik well water. 5) Shri: - Jaywant Tuwar Well Water 6) Shri: Nimbalakar Well water					

GENERAL CONDITIONS :

i) The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government.

We are strictly adhering to the stipulations made by the Karnataka State Pollution Control Board and the State Government. The latest consent copy may be attached

ii) No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.

Project authorities agreed to approach Ministry for further expansion or modifications in the plant, if any.

iii) Ambient Air Quality Monitoring Station should be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO, Nox, are anticipated in consultation with the State Pollution Control Board.

. AAQ is monitored at three stations for SPM, SO_2 and NO_x. The locations of the monitoring stations are fixed up in consultation with SPCB Officials. The AAQ monitoring report shows that all the parameters are within limits. Give the locations of the stations and copy of the latest analysis may be attached.

B) Ambient Air Quality	SPM mg/Nm^3	SO_2 µg/Nm^3	NO_2 µg/Nm^3
1) Pressmud biogas plant.	83	7.08	16.6
2) E.T.P. Site	80	5.94	15.22
3) Shri Hari Vidyalaya	78	6.04	13.83

iv) Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.

How many influent and effluent monitoring stations are sampled for sugar, distillery and Cogen,. Give latest analysis report for sugar and co-gen.

There is only one ETP inlet for combined sugar ETP where we treating domestic ,sugar factory effluent and spent lease and a single point discharge of the treated effluent.

Analysis Report of Combined Effluent Treatment Plant for the month of **JANUARY - 2015** J					
S.No.	Parameters	Sugar Factory Effluent	Combined effluent Treatment plant clarifier out let S. factory + D. sewage + Spent lease Only.(D.A.System) Domestic Sewage	After dilution with cond. Boiler blow down &cooling tower overflow for ferti-rrigation	
1	pH	7.98	7.85	7.78	
2	Alkalinity	230	201	153	
3	Total solids	1340	1098	996	
4	Total dissolved solids	1263	1030	940	
5	Suspended solids	77	68	56	
6	C.O.D.	1150	132.1	108	
7	B.O.D.	510	97.2	48	
8	Chlorides	97.84	130.1	135.02	
9	Conductivity	1755	798	1352	
10	Oil & Grease	1	Nil	BDL	
11	Residual sodium carbonate	BDL	Nil	Nil	

Note: - All the parameters are in mg/l except pH .

v) The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)

The overall noise levels in and around the plant area are kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. for all sources of noise generation. The ambient noise levels are conforming to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). Please send latest analysis reports. At how many stations noise is monitored.

, Noise Level Monitored for the month of JANUARY- 2015

C) Noise level / location	**dbA Day**	**dbA Night**
1) 80 TPH Boiler	90	88
2) 70 TPH Boiler	98	96
3) 60 TPH Boiler	90	88
4) 50 TPH Boiler	70	69
5) Mill house 42 X 84	73	72
6) Mill house 33 X 66	55	53
7) Boiling House	85	84
8) 45 KLPD Distillery	92	91
9 Factory main gate	55	53
10) Outside factory wall	90	88
11) U.S.W Hospital	98	96

vi) Green Belt of adequate width and density should be provided to mitigate the effects of fugitive emission all around the plant. A minimum of 25% of the total land acquired should be developed as green belt in consultation with the local DFO

The details of green belt are as follows :-

1. Total extent of land : 100.50 Ha.
2. Built up area : 60.06 Ha.
3. Area under Greenbelt : 38.08 Ha.
4. Land balance for Greenbelt : 2.36 Ha.
5. Total number of Trees planted : 18,350
6. Source of seedlings made available : Seedlings purchased from UAS, Dharwad, Shirol, Kolhapur West Coast Paper Mills, Dandeli and RFO Kokatnur three nurseries.

The total area available is 215.75 ha of which 108 ha are R&D lands. Please check the above statement.

We have also planted the sapling in and around ETP,Digester area,as weel as we covered about 40% of the green belt.

vii) The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report

List the measures and give the compliance.
We are complying with all the environmental protection measures and safeguards recommended in the EIA report.

The compliance with the Indian environmental standards will be ensured from the time of project design. It is proposed that factory will undertake rapid Environmental Impact Assessment (EIA) & Disaster Management Plan through a reputed agency. Further during the construction phase an environment management plan will be designed & will be monitored by the management of factory.

7) **Performance of Sugar Plant:**

i) Performance risk of sugar plant is mitigated by installing established technology.

ii) Procuring the plant & machinery from proven & established equipment manufacturers.

viii) A separate environmental management cell equipped with full fledged laboratory facilities must be set tup to carry out the environmental management and monitoring functions. The project authorities will provide adequate funds both recurring and non recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.

A separate environmental management cell equipped with full fledged laboratory facilities to carry out the environmental management and monitoring functions is established. The management provided adequate funds both recurring and non recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided will not be diverted for any other purposes.

Give item-wise expenditure recurring and non-recurring, spent in the past 5 years for

Environmental Protection.

Cost Center	Description	Nature of Exp	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Ugar								
9001305334	SCHOOL		2,340,944	3,915,341	6,739,799	2,533,806	2,906,076	6,695,177
9001305335	COLLEGE		528,759	518,020	485,943	708,042	410,027	526,703
9001305336	ITI		474,493	196,074	227,638	202,156	163,339	156,453
9001305337	BALAMANDIR		8,984	33,393	24,760	31,657	17,879	7,679
9001305338	SOCIAL WELFARE E	Road construction	1,272,818	2,298,422	2,134,212	2,754,406	2,483,536	1,894,082
9001305339	GYMKHANA,VIHAR	Gym Equipments	2,144,832	280,948	300,251	269,485	171,672	172,106
9001303321	Hospital		1,179,372	3,292,388	3,962,285	4,432,400	3,975,307	4,311,069
9001305341	TEMPLES		54,080	138,652	98,735	176,211	175,298	200,085
Expenditure on CSR Rupees in Lacs			8,004,282	10,673,238	13,973,623	11,108,163	10,303,133	14,135,461

ix) The implementation of the project vis-a-vis environmental action plans will be monitored by Ministry's Regional Office at Bangalore / State Pollution Control Board / Central Pollution Control Board. A six monthly compliance status report along with the monitored data should be submitted to the monitoring agencies.

Six monthly condition wise compliance reports are not received in the Regional Office.
Six monthly condition wise compliance reports we are sending regularly,and recent one is already sent on 04.12.2014 vide letter NoENV/2014-15/8436

x) The Project Proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Board / Committee and may also be seen at website of the Ministry and Forests at http:www.envfor.nic.in.

Project authorities have not provided any details.

xi. The Project Authorities should inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.

Not informed.

GOVERNMENT OF INDIA

Ministry of Environment and Forests
(Regional Office, Southern Zone)
Bangalore-34
MONITORING REPORT
PART – I

F. No. EP/12.1/180/KAR
Date : 2.03.2015

1	Project type	Industry
2	Name of the project	Modernization of 30 KLPD distillery unit at Belgaum, Karnataka by M/s. Ugar Sugar Works Ltd., - reg.,
3	Clearance letter no. & date	MoEF. Lr. No. J-11011/80/99-IA.II(M), dated: 07/11/2003
4	Location: District & State / UT	THE UGAR SUGAR WORKS LIMITED. UGARKHURD – 591 316. DIST . BELGAUM KARNATAKA STATE.
5	Address for correspondence:	THE UGAR SUGAR WORKS LIMITED. UGARKHURD – 591 316. DIST . BELGAUM KARNATAKA STATE.
6	Financial Details:	
a	Project cost as originally planned and subsequent revised estimates and the years of price reference	Rs.2 Crores from batch fermentation to continuous fermentation
b	Allocations made for environmental management plans, with item wise and year wise breakup	It is a continual improvement since 1995 such as bio digestersfollowed by MEE and Dryer for bio -mathenated effluent treatment,constructions of 5 Nos of digesters,generation of bio-gas as a fuel.
c	Total expenditure on the Project so far	
d	Actual expenditure incurred on the environmental management plans so far	Rs.6 Crores for APC and WPC ETP – 4 CRORES DIGESTERS & MEE – 2 CRORES
7.	Status of construction:	
a.	Date of commencement	January -2005
b.	Date of completion (actual and/or planned)	January-2006
8	Date of site visit :	
a.	The dates on which the project was monitored by the Regional Office on previous occasions, if any	--We are in receipt of approval of the Ministry for operating 30 KLPD ditillery vide letter No.MoEF Ir No.J/11011/80/99-1 A. II (M),dated;7.11.2003,in addition to earlier 45K LPD distillery Unit
b.	Date of site visit for this monitoring report	08.01.2015

Green belt

Tree species planted under Greenbelt over an area of 38 Ha.
1) Coconut, 2) Palms, 3) Peltophorum, 4) Gulmohar, 5) Hibiscus, 6) Wondeful Foliase and flowering plants, 7) Boganvelia as hedge, 8) Cajurina, 9) **Jatropa curcas (Now stopped planting as found not suitable**), 10) Pongemia pinata (**performing very well**), 11) Drooping Ashok, 12) Gooseberry, 13) Curryleaf, 14) Drum stick, 15) Neem, 16) Silver Oak, 17) Spathodia, 18) Jakaranda, 19) Casia pistula, 20) Wild Badam, 21) Pelthophorum.

- Massive tree plantation programme is being implemented with the help of School boys, NSS, College students, Lions Club, Mahila Mandal, Vinayakrao Shirgaokar Charitable Trust, ITI etc. and target fixed is 10,000 saplings to be planted between June 2015 and October 2015, under the guidance of Dr. S.J. Patil, Principal Scientist and OIC, AICRP on Agro Forestry, UAS, Dharwad and Deputy Conservator of Forests, Gokak (Dist. Belagavi).

GOVERNMENT OF INDIA

Ministry of Environment and Forests
(Regional Office, Southern Zone)
Bangalore-34
MONITORING REPORT
PART – I

F. No. EP/12.1/180/KAR
Date : 24.03.2015

1	Project type	Industry
2	Name of the project	Modernization of 30 KLPD distillery unit at Belgaum, Karnataka by M/s. Ugar Sugar Works Ltd., - reg.,
3	Clearance letter no. & date	MoEF. Lr. No. J-11011/80/99-IA.II(M), dated: 07/11/2003
4	Location: District & State / UT	THE UGAR SUGAR WORKS LIMITED. UGARKHURD – 591 316. DIST . BELGAUM KARNATAKA STATE.
5	Address for correspondence:	THE UGAR SUGAR WORKS LIMITED. UGARKHURD – 591 316. DIST . BELGAUM KARNATAKA STATE.
6	Financial Details:	
a	Project cost as originally planned and subsequent revised estimates and the years of price reference	Rs.2 Crores from batch fermentation to continuous fermentation
b	Allocations made for environmental management plans, with item wise and year wise breakup	It is a continual improvement since 1995 such as bio digestersfollowed by MEE and Dryer for bio -mathenated effluent treatment,constructions of 5 Nos of digesters,generation of bio-gas as a fuel.
c	Total expenditure on the Project so far	
d	Actual expenditure incurred on the environmental management plans so far	Rs.6 Crores for APC and WPC ETP – 4 CRORES DIGESTERS & MEE – 2 CRORES
7.	Status of construction:	
a.	Date of commencement	January -2005
b.	Date of completion (actual and/or planned)	January-2006
8	Date of site visit :	
a.	The dates on which the project was monitored by the Regional Office on previous occasions, if any	--We are in receipt of approval of the Ministry for operating 30 KLPD ditillery vide letter No.MoEF Ir No.J/11011/80/99-1 A. II (M),dated;7.11.2003,in addition to earlier 45K LPD distillery Unit
b.	Date of site visit for this monitoring report	08.01.2015

Green belt

Tree species planted under Greenbelt over an area of 38 Ha.

1) Coconut, 2) Palms, 3) Peltophorum, 4) Gulmohar, 5) Hibiscus, 6) Wondeful Foliase and flowering plants, 7) Boganvelia as hedge, 8) Cajurina, 9) **Jatropa curcas (Now stopped planting as found not suitable**), 10) Pongemia pinata (**performing very well**), 11) Drooping Ashok, 12) Gooseberry, 13) Curryleaf, 14) Drum stick, 15) Neem, 16) Silver Oak, 17) Spathodia, 18) Jakaranda, 19) Casia pistula, 20) Wild Badam, 21) Pelthophorum.

* Massive tree plantation programme is being implemented with the help of School boys, NSS, College students, Lions Club, Mahila Mandal, Vinayakrao Shirgaokar Charitable Trust, ITI etc. and target fixed is 10,000 saplings to be planted between June 2015 and October 2015, under the guidance of Dr. S.J. Patil, Principal Scientist and OIC, AICRP on Agro Forestry, UAS, Dharwad and Deputy Conservator of Forests, Gokak (Dist. Belagavi).

Project authorities are not able to treat 100 % effluent quantity in the present system due to shortage of bagasse fuel. Hence, they have started to use 270 M3 / day effluent (after bio-digestion) for One Time Controlled Land Application in the farmer's land under the guidance of Dharwad Agricultural University. The project authorities have also sent a letter regarding one time land application along with Proposal of U.A.S. Dharwad to Karnatak State Pollution Control Board Bangalore vide our letter No.Env./ 2009-10 / 11731 Date:22.01.2010. HAS THE PCB PERMITTED THE FERTI IRRIGATION?

Yes, PCB has given permission for ferti irrigation,vied consent No PCB/155/HP1/2011-12/1200,dated 12.11.2013 for treated sugar factory effluent and domestic sewage along with spent lease.

During monsoon period reportedly the treated effluent is being stored in a lined lagoon and operation of the distillery unit is being regulated so as to ensure there will be no discharge of treated spent was into surface water body due to monsoon run off. There is ZERO discharge of the dis

It means that,we are controlling the distillery rate and storing the raw spent wash as well as bio methanted effluent in lined lagoons and RCC tanks during monsoon,last year we produced only 84 lacs rectified spirit as against 2 lac ltrs. The biomethanted effluent is treated in MEE.

Env/2016-17/ Date : 18.06.2016

To,

The Scientist'F,

Goremnent of India,

Ministry of Environment , Forests and Climate Change,

(I.A.Division)

Indira Parayavaran Bhavan

Jor Bagh Road,Aliganj,

New Delhi -110003.

Sub : Violation of Environmental Clearance Conditions and show cause for closure-reg. Dated;24th May 2016 received by us on 31ST May 2016.

Ref : EC order No.-11011/80/99IA,dated 17.08.2000

Respected Madam,

We are in receipt of above referred show Cause Notice and noted the contents. Please, find enclosed herewith point wise compliance along with recent photographs and flow diagram.

You are therefore requested to kindly acknowledge the same and oblige.

Thanking you,

Yours faithfully,

THE UGAR SUGAR WORKD LTD. POINT WISE COMPIANCE

Sr.No.	**Observation by MoEF**	**Action Taken/Compliance**
1	The industry should ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances / failure of pollution control	The Sugar factory effluent,spent lease & Domestic effluent is being treated in Sugar Factory Effluent Treatment Plant i.e. Equalization tank (Size: 30.5 m x 44.75 m x depth 3.5 m = Capacity-2700

	equipment's adopted by the unit, the respective unit should be shut down and should not be restarted until the control measures are rectified to achieve the desired efficiency. Violation alleged is that,at present the domestic effluent is added to sugar effluent and combined treatment in vogue. No explanation has been given by the project authorities regarding treatment and disposal of domestic effluent,when the sugar ETP is not working.ETP channels are not clean and not lined in some parts. Sugar ETP storage tank lining is damaged. Sludge from ETP was disposed on open land near raw effluent storage tank of sugar ETP.The capacity of sludge drying bed is not adequate. Oil water separator system was not working and it in dilapidated state. Oil sludge (Hazardous Waste) is spilled near the oil water separator on the ground. In addition to it ETP outflow meter was not working.	cu.m,followed by primary classifiers x 2 Nos. Size – 7.5 m dia x depth 3.5 m followed by Defused aeration tank (Size: 49 m x 37 m x depth 3.5 m = Capacity - 4400 followed by Secondary Classifiers x 2 Nos. Size – 9.00 m dia x depth 3.5 m followed by chlorination & diluted with low pollutant & cooling tower overflow, having less than 100 mg/l BOD is being sent for ferti-irrigation. The disposal of domestic effluent,when the sugar ETP is not working.We have two Nos. of aeration tanks of above mentioned capacity and one of this is being used for the treatment of Domestic Effluent when the sugar ETP is not working. We are keeping all the channels clean and a pipeline is provided to convey Domestic effluent. Sugar ETP storage tank damaged lining is now repaired. Sludge from ETP was disposed by distributing to the farmers after drying and not dumped open land near raw effluent storage tank of sugar ETP now,the area is clean. The capacity of sludge drying bed is adequate. Oil water separator system was is working and it is not in dilapidated state. Oil sludge (Hazardous Waste) is spilled near the oil water separator on the ground is cleaned and disposed and now proper flooring is provided to avoid land contamination In addition to it ETP outflow meter is working.
2	The company should install electrostatic precipitators / wet scrubbing facilities to bring down the particulate matter emission from the boilers to 150 ug/3 to meet the norms stipulated by the KSPCB. Violation alleged is that, Steel chimney platform is very weak & corroded and is not possible to do sampling.60 TPH boiler stack wet scrubber in not effective and emissions are beyond limits during the visit.	We have provided APC equipments to all the five boilers as mentioned hereunder and all the equipments are operating so as to ensure that, no dust is there in surrounding area : 1) New Wet Scrubbers are provided for two boilers of 60 TPH x **<u>2 Nos.</u>** (No.8597 and 8598) (as old one is damaged). 100% work is completed. • ESP provided to 70 TPH boiler (No.2272) 3) We have provided Wet Scrubber to our 50 TPH boiler (No.1736). 4) ESP provided to 80TPH boiler (No.2404).

		The SPM levels are below the KSPCB norms. Steel chimney platform which was very weak & corroded is repaired and it is possible to do sampling. We are monitoring weekly basis as well as engaged third party to monitor the same.60 TPH boiler stack wet scrubber which was not effective is repaired and now the emissions are under the limits .
3	7. The quantity of waste water generated after expansion should not exceed 12 m3/K1 of product as prescribed under EPA. There will be no discharge of treated spent was from the distillery unit into any surface water body. The spent wash generated from the distillery should be treated as per the treatment scheme approved by KSPCB to meet the norms for land disposal. The entire treated effluent should be used for land irrigation. During monsoon period the treated effluent should be stored in a lined lagoon or operation of the distillery unit should be regulated so as to ensure there will be no discharge of treated spent was into surface water body due to monsoon run off. 8. Violation alleged is that, the effluent discharge into Dhangar lift and mixing with with Dhangar lift canal water and not directly on to the farmer's land. Because of this,there are complaints from local people. During visit pubic near Durgawadi has complained smell during night due to effluent discharge & also open wells around area were contaminated. 9.	The quantity of waste water generated after expansion is not exceeding 12 m3/K1 of product as prescribed under EPA. There is no discharge of treated spent was from the distillery unit into any surface water body. The spent wash generated from the distillery is being treated as per the treatment scheme approved by KSPCB,i.e.Biomethanation followed by MEE. There is ZERO discharge of the distillery effluent after MEE . During monsoon period the treated effluent is being stored in a lined lagoon and operation of the distillery unit is being regulated so as to ensure there will be no discharge of treated spent was into surface water body due to monsoon run off. The Sugar factory effluent,spent lease & Domestic effluent is being treated in Sugar Factory Effluent Treatment Plant i.e. Equalization tank capacity 2700 cu.m followed by primary classifiers x 2 Nos. followed by Defused aeration Tank cpacity – 4400 cu.m followed by Secondary Classifiers x 2 Nos. followed by chlorination & diluted with low pollutant & cooling tower overflow, having less than 100 mg/l BOD is being sent for ferti-irrigation .The treated effluent is being distributed with the consent of the farmers.
4	The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government. Violation alleged is that, oil sludge spilled all over near the oil separator. The Oil water separator is not working and it is in a dilapidated state. Glass wool has been disposed openly on back side of the	During cleaning of the oil separator there was a spillage all over near the oil separator Noe it is cleaned, removed & disposed. The Oil water separator is in working condition and it is not in a dilapidated state. The glass wool is disposed off scientifically. Now,the area is clean.

	industry. Nitric acid is stored in the open without label & in unscientific manner. Lime is stored on open land in unscientific method. Baggase storage area should be enclosed. All the storage tanks should be above ground level in such a way that the tank bottom is seen and any damages can be noted and rectified immediately and possible ground water contamination can be avoided. Form -V(Environment Audit Statement) is not giving required details for sugar & distillery. House keeping is poor. There are areas where effluent are seen and project authorities could not explain their source and presence.	Nitric Acid is required for MEE cleaning purpose. We always keep Nitric Acid cans filled /packed by in the shed,and now,they are labeled & kept in scientific manner. The lime sludge is used for land filling & now it is levelled & area is clean. Baggase storage area is enclosed now. All the storage tanks are impervious & they are used for ferti-irrigation. We are holding the water during night time and as per the demand of the cultivators we are disposing into irrigation fields in our command area. Form -V (Environmental audit statement) required details for sugar & distillery are already submitted House keeping is improved now. During visit the domestic effluent chamber was choked up hence, the domestic effluent spillage is occurred. Now, the chock up taken out & area is cleaned,there is no any spillage.
5	Ambient Air Quality Monitoring Station should be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO, Nox, are anticipated in consultation with the State Pollution Control Board. Violation alleged is that,AAQ is not monitored as per National Air Quality Quality parameters.	AAQ is monitored at three stations for SPM, SO_2 and NO_x. The locations of the monitoring stations are fixed up in consultation with SPCB Officials. The AAQ monitoring report shows that all the parameters are within limits. AAQ is being monitored as per National Air Quality Quality parameters.
6	Adequate number of in fluent and effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters. Violation alleged is that,there are no flow meters is each section and hence actual volume of the effluent flowing at any time cannot be calculated.	We have identified Adequate number of influent and effluent quality monitoring stations in consultation with the State Pollution Control Board 'V' Notches and rectangular notches are provided).Regular monitoring is being done and analysis reports are submitting on monthly/half yearly basis for relevant parameters to SPCB & Ministry. We have installed On-line monitoring system,which connected to CPCB & KSPCB server.
7	Green Belt of adequate width and density should be provided to mitigate the effects of fugitive emission all around the plant. A	The details of green belt are as follows :-

	minimum of 25% of the total land acquired should be developed as green belt in consultation with the local DFO Violation alleged is that,the plantation work is very poor.	Total extent of land 100.50 Ha. Built up area :60.06 Ha. Area under Greenbelt :38.08 Ha. Land balance for Greenbelt : 2.36 Ha. Total number of Trees planted : 18,350 Source of seedlings made available : Seedlings purchased from UAS, Dharwad, Shirol, Kolhapur West Coast Paper Mills, Dandeli and RFO Kokatnur three nurseries. The total area available is 215.75 ha of which 108 ha are R&D lands. Please check the above statement. We have also planted the sapling in and around ETP,Digester area,as well as we covered about 40% of the green belt.
8	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report. Violation alleged is that,the project authorities have not complied with environmental protection measures .	We are complying with all the environmental protection measures and safeguards recommended in the EIA report. The compliance with the Indian environmental standards will be ensured from the time of project design. It is proposed that factory will undertake rapid Environmental Impact Assessment (EIA) & Disaster Management Plan through a reputed agency. Further during the construction phase an environment management plan will be designed & will be monitored by the management of factory. **Performance of Sugar Plant:** i) Performance risk of sugar plant is mitigated by installing established technology. ii) Procuring the plant & machinery from proven & established equipment manufacturers.
9	A separate environmental management equipped with full fledged labora facilities must be set tup to carry environmental management anc monitoring functions. The projec authorities will provide adequate both recurring and non recurring implement the conditions stipula Ministry of Environment and For	

Cost Center	Description	Nature of Exp	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Ugar								
9001305334	SCHOOL		2,340,944	3,915,341	6,739,799	2,533,806	2,906,076	6,695,177
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	well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes. Violation alleged is that,the project authorities have not given item-wise expenditure for recurring and for non recurring measures for Environmental Protection.	by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided will not be diverted for any other purposes.
10	The implementation of the project vis-a-vis environmental action plans will be monitored by Ministry's Regional Office at Bangalore / State Pollution Control Board / Central Pollution Control Board. A six monthly compliance status report along with the monitored data should be submitted to the monitoring agencies. Violation alleged is that,Six monthly compliance status report along with monitored data should be submitted to the monitoring agencies.	Six monthly condition wise compliance reports are sent already to the Regional Office at Bangalore / State Pollution Control Board / Central Pollution Control Board. Six monthly condition wise compliance reports we are sending regularly,and recent one is already sent on 05.05.2016 vide letter NoENV/2016-17/1221.
11	The Project Proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Board / Committee and may also be seen at website of the Ministry and Forests at http:www.envfor.nic.in. Violation alleged is that,project authorities have not provided any details.	Public Hearing Conducted in 19 Sept. 2014. All the formalities required for conducting P.H was complied such as advertised in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance
12	The Project Authorities should inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work. Violation alleged is that,project authorities have not informed.	We have already inform to the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.
13	Ministry may revoke or suspends the clearance,if implementation of any of the above conditions is not satisfactory. And the above conditions will be enforced inter alia under the provisions of the water (Prevention & Control of Pollution) Act 1974,the Air (Prevention & Control of Pollution) Act 1981.,the Environment (Protection) Act,1986 and the Public	Madam, we are law abiding company and taking utmost care not to cause damage to the health of flora & Fauna , human beings and damage the environment. We are serious in taking measures to abate/control the pollution. Your good self is therefore requested to kindly not to initiate any legal

	Liability Insurance Act 1991 along with their amendments and rules. Violation alleged is that, the compliance found unsatisfactory.	action against our industry and oblige.

Cc to: Additional Director (S)
Government Of India
Ministry Of Environment & Forests
Regional Office (Southern Zone)
Kendriya Sadan, IVth Floor, E & F Wings
17th Main Road, II Block, Kormagala,
Bangalore – 560 034.

The Member Secretary,
Karnataka State Pollution Control Board,
49, Parisara Bhavan, 4th & 5th Floor,
Church Street, Bangalore -560001.

Additional Pricipal Chief conservator of Forsts(Central),
Ministry Of Environment, Forests & climate change,
Ist and Ii nd floor,Handloom Export Promotion Council,
34,Cathedral Garden Road,Nangambakkam,
Chennai – 34.