

# NSL Sugars Limited UNIT-III Jay Mahesh

Village Pawarwadi Tq.Majalgaon, Dist.Beed.(Maharashtra) Fax.:(02443) 202034 Email:jmsil@nslsugars.com web.www.nslsugars.com

13<sup>th</sup> February, 2017

TO,

THE DIRECTOR (INDUSTRY-2),
MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE,
INDIRA PARYAVARAN BHAVAN,
JOR BAGH ROAD,
NEW DELHI - 110 003

Sub:

Environmental Clearance for expansion sugar plant from 7000 TCD to 12000 TCD and 100 KLPD Molasses based distillery plant along with 3 MW co-gen power plant (in addition to the existing 30 MW co-gen power plant) in Pawarwadi Village, Majalgaon Taluk, Beed District, Maharashtra – Submission of additional information - Reg.

### Ref:

- 1. Environmental Clearance issued by MOEF vide No. F. No. J-11011/1264/2007-IA II (I) dated 30-04-2009
- 2. TOR letter issued for expansion by the MOEF& CC vide No. J-11011/26/2015-IA II (I) dated 29-04- 2015
- 3. Submitted Final EIA report online in MoEF&CC web portal vide Proposal No. IA/MH/IND2/26637/2015 dated 05-10-2016
- 4. Proposed considered in 16<sup>th</sup> EAC meeting for Industry -2 held on 08-12-2016 Respected sir,

We are very thankful to the Ministry for kindly considering our aforementioned proposal in the 16<sup>th</sup> EAC meeting (Industry-2) held on 8<sup>th</sup> December, 2016. Please find enclosed the pointwise clarifications to the observations mentioned in the Ministry website vide MoM of 16<sup>th</sup> EAC for your kind perusal.

S.NO.	OBSERVATION DISPLAYED IN THE MOM 16 <sup>TH</sup> EAC MEETING	CLARIFICATION
1	Explore the possibility of surface water availability	As suggested by the Hon'ble Committee, we have initiated the process of obtaining approval for drawl of water from Majalgaon Dam situated at 14 Kms. from the plant. A copy of the acknowledgement is enclosed as Annexure-1 for your kind perusal.  We hereby assure your goodselves that we will use Dam water after obtaining the approval.
Corpora	e Office : NSL Icon,8-2-684/2/A, Road N	p.12, Banjara Hills, Hydrabad - 500 034, INDIA

Ph.: +91-40-30514444 Fax. +91-40-30514125

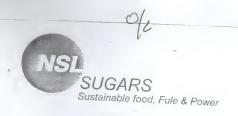
Registered Office: 60/1, 2nd Cross, Residence Read Bandafore - 560 02. Fax. + 080 - 41232314

S.NO.	OBSERVATION DISPLAYED IN THE	CLARIFICATION
	MOM 16 <sup>TH</sup> EAC MEETING	
2	Conduct occupational health	As suggested by the hon'ble Committee, we have
	analysis of workers through	conducted occupational health of all the workers
	Government medical doctor/	through Dr. S. B. Mundhe, Occupation Health
	occupational health certified	Centre, Beed, approved by the Govt. Copies of the
	doctor	health reports of all the workers is enclosed as
		Annexure - 2 for your kind reference.
3	Rework in order to reduce the	As suggested by the Hon'ble EAC, we have reduced
	water requirement	the water requirement for the distillery to 920 KLD
		for the Distillery. The total water requirement
		after expansion will be 3020 KLD.
4	Consent order from State Pollution	Maharashtra Pollution Control Board (MPCB) has
	Control Board	issued Consent to Operate (CTO) for existing plant
		which is valid upto 31-07-2017. A copy of the CTO
		is enclosed as <b>Annexure – 3</b> for your kind perusal.
5	Revised plant layout with proper	Revised Plant Layout duly incorporating the
	greenbelt	peripheral greenbelt is enclosed as Annexure -4
		for your kind perusal.

We request your goodselves to kindly issue of Environmental Clearance for our proposed expansion project at the earliest.

Thanking you
Yours Sincerely
For NSL SUGARS LIMITED (UNIT-III)
(Formerly JAY MAHESH SUGAR INDUSTRIES LIMITED)

S. RAPHAKRISHNAN VICE PRESIDENT



Ref:- NSLJM/Admin/ 150/2017

To. The Executive Engineer, Majalgaon project division, Parli Vaijyanath, Dist. Beed, Maharashtra.

# Annexure -1

# **NSL Sugars Limited** Unit III Jay Mahesh

Regd.Off.Pawarwadi Tq.Majalgaon Dist.Beed. Maharashtra, INDIA Off.(02443) 203590,91 Fax.:02443-202034

Email:jmsil@nslsugars.com web.:www.nslsugars.com Tin No: : 27830948879 V/C CIN NO.U15429KA1999PLC026121

Date:- 03/02/2017

Sub:- Application for water withdrawal permission from Majalgaon Dam – Regds.

Respected Sir,

With reference to the above cited subject, It is submitted to your good self that, we require permission for withdrawing 3800 cum x 300 days (12 Hours Opeartion/day) i.e 11.4 lakhs Cum / annum, water from Majalgaon dam to NSL sugars ltd, Unit – III, Jay Mahesh, Village

The factory is planning to go for a more reliable and permanent solution to the present water problem by constructing/existing storage reservoier with providing water supply pipe line from nearest source of Majalgaon dam (back water) on Sindafana river, which is at distance of 14 Km from factory. This stored water will be utilized for production purpose.

The total station survey of pipeline alignment is done from jack well located on left bank of back water of Majalgaon dam to NSL Sugar factory reservoier. The total lenght coming out to 13.92 Km (Ch-0 Km to 13.92 Km). Total station survey report is enclosed herewith for your kind reference.

Therefore requesting your good self to sanction us the permission to withrawal the water from Majalgoan dam to NSL Sugar factory loacted in Vill. Pawarwadi.

Date :- 03/02/2017

For NSL Sugars Ltd. Unit III, Jay Mahesh

lacorble

Number of copies submitted :- 03 Sets

Group Company

NSL Icon, 8-2684/2/A, Road No.12, हिन्दिसी। Hydrabad - 500 034, INDIA Ph: 91 -40 - 30514444

भहायक कार्यका के १७

# NSL SUGARS LTD. UNIT-III, JAY MAHESH VILLAGE - PAWARWAD, DIST. BEED (MAHARASHTRA)

# WATER SUPPLY SHCEME FROM MAJALGAON DAM TO SUGAR FACTORY

# PRELIMINARY DESIGH REPORT & DRAWINGS

### Consultants

AMINBHAVI AND HEGDE Consultanting Engineers Pvt. Ltd. 1st Floor, UCB Complex, Station Road DHARWAD- 580 001. Ph. (0836) 2747 308, Fax – 2796 241 E-mail – ahcepl.ah@gamil.com

# **GENERAL REPORT**

NSL Sugars Ltd. Unit-III, Jay Mahesh is located at Pawarwadi Village of Majalgaon Taluka in Beed District. It is combined sugar unit consiting of Sugar unit of capacity 7000 TCD, Ethanol of cap. 100 KLPD & Co-Generation unit of cap. 30 MW. (The Distillery porject implementation activities are under way will complete soon).

The above activities need about 3800 Cum of water per day. The factory is facing shortage of water at present and requirement is met by borewell which will deplete during the summer.

Therefore, the factory plans to go for a more reliable and permanent solution to the present water problem by constructing a storage reservior with providing water suply pipeline from Nearest source of Majalgon dam (Back water) on Sindafana river, which is at distance of 14 Km from factory. There is amply of water available in Dam for whole of 12 months. The project envisages pumping of water through pipeline into the reservior. Utilising this stroed water for productin purposes.

# Water requirement:-

Total water requirement is 3800 Cum/day for 300 days (11.4 lakh cum/annum). Discahrge for pumping has been calculated; as the electricity may be supplied by the factory or by taking proper prior permission from MSEB, hence 12 hours pumping is considered by these hours of pumping discharge is works out to 320 Cum/hour.

## Survey:-

The total station survey of pipeline alignment is done from Jackwell is located on Left bank of backwater of Majalgaon dam to Sugar factory reservior. The total length coming out to 13.92 Km (Ch-0 Km to 13.92 Km)

# Components of scheme:-

Following are the components included in the scheme.

- 1. Approach Channel
- 2. RCC Jackwell & Pump house
- 3. Rising Main
- 4. Approach Embankment
- 5. Mechanical & Electrical works

The Approach channel is proposed at jackwell. It is length 200 mtr(Ch- 50 to 150 mtr). The proposal Bed width of channel is 2.0 mtr. With side slope of 1:5:1. The side slope are protected by drystone pitching. The Bed slope towards jackwell is made in 1:2000 to pass the required discharge

### Jack well & Pump house:-

The RCC Circular Jackwell & pump house is proposed to be Located at Ch- 150 mtr at GL-494.50 because the part of excavation of approach channel can be utilized for approach embankment. It is in Circular in shape of 4.0 mtr diameter and 12 mtr deep from pump house floor level. The floor level of pump house kept at RL 500 which is above HFL of 499. The jackwell and pump house is RCC structure. For water intake the openings are made in steining wall with pipe and MS Gratings. The guide walll and baffle wall is proposed to guide the water to suction of pump. The pump house above the well shall also be of 4 mtr dia and 4.5 mtr height witgh RCC roof. The HOT crane of capacity 2 MT is proposed at pump house for the maintenance of pumps and motors. The pump house shall be provided with 2 Nos. (1 working + 1 standby) of vertical turbine pumps each having a discahrge of 320 Cum/hour for 12 hours pumping (day time).

### Approach & Embankment:-

The earthen approach embankment is proposed to jackwell because, as persent site is of BC soil RCC approach Bridge will be costlier than earthen approach Bridge. The Bridge length is 150 mtr (Ch- 150 to 300 mtr). The proposed top width of Bridge is 3 mtr. The top level embankment kept at RL 500 near jackwell and will reach RL 499 at end of approach for the length of 150 mtr. The side slopes of embankment proposed is 1:5:1 and are protected by drystone pitching.

### Rising main:-

The rising main design is made for various alternatives, however we propose MS pipe as it is of less maintenance and long run as compared to other pipes. The proposed rising main is of 270.1 mm dia MS pipe of 4.8 mm thick. The lenght of the rising main is about 13800 mtr. The above diameter has been arrived after detailed techno-economic analysis. Also detailed water hammer analysis has been carried out for the above pipe line and it is founded the pipe thickness is safe against such pressures. Necessary appurtenances such as line valves, air valves, scour valves, etc. Shall be provided along the rising main. At the bends and slopes suitable sized thrust blocks/anchor blocks shall be provided. At major CD works pipes are laid above the nallas. The longitudinal section of rising main shown in **Drawing**.



# Mechanical & Electrical works:

There are 2 Nos. (1 working + 1 standby) of Vertical Turbine pumps proposed each having a discharge of 32 om<sup>3</sup> / hour for 20 hours pumping against total head of 11 om.

The HT line to jackwell is taken either from factory. The switch yard for jackwell is proposed at side of jackwell & cable will be connected to Panel room at pump house from this location.

# Cost Estimate

The Preliminary Estimate is prepared based on Techno economic analysis & present schedule of rates. The Summery of various alternatives are made & detailed as under.

2.	Description  273.1 mm OD 4.8 thick MS Pipe  300 mm dia DI K-7 Pipe  315 mm OD HDPE Class PN-8	Pump Capacity (in HP) 125 70	Velocity in Pipe (M/S) 1.146 0.95	Project Cost (in Rs. lakhs) 605.00 620.00 525.00
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# Conclusion:

As per above statement the project cost for HDPE pipe is less, we prefer MS Pipe because of less maintenance and durability. And as the pipe length is more field owners may likely to make damage, hence MS pipe may suitable for the scheme. However, the factory may decide to finalize the any alternatives.

The above details are worked out based on survey details given by factory however detailed report will be done after confirmation of final approval of preliminary estimate.





### Salient features of scheme:-

## 1) Jack well and pump house:-

Material of construcation : RCC
Size : 4 mdia
RL of pump house floor : 500.00
Full reservoir level (FRL) of Dam : 431.80 mtr
Maximum water level (MWL) of Dam : 434.80 mtr
Top bank level of Dam : 435.60 mtr
Height of pump house : 4.5 mtr

Type of pump : Vertical pumps

No. Of pumps : 1 working + 1 stand by

# 2) Rising main:-

Length:13800 mtrDia:273.1 mm (OD)Types of pipe:MS pipeThickness of pipe:4.8 mm thick

# 3) Pumping machinery:-

KW/pump : 125 HP

Number of pumps : 2 Nos (1 working + 1 stand by)

Discharge for pump : 85 to 90 LPS
Total head on pump : 110 mtrs

Note:- At the time of finalization we can submit necessary specification/tech. data of pumping machinary



# Summery of Estimate for Jay Mahesh sugars Pawarwadi water supply scheme

Type of pipe: MS Hours of pumping =. Description Amount No Rs Jackwell & pumphouse 4m dia 12m ht jackwell & 4.5m ht pumphouse 2,000,000.00 Aapproach channel 2,300,000.00 Aapproach Bridge 2,200,000.00 2 Rising Main 273.1MM OD 4.8MM THK 49,993,028.90 3. Pumps & Motors with column pipe & MS manifold 100HP X 2Nos @ Rs-10000/HP 2,000,000.00 4 Electrical works with panel board, switch yard & transformer 2,000,000.00 60,493,028.90

# Estimate of MS Rising main

Sr	Items								* /
No	1161115	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	-					- `		Rs	Rs .
1.	Excavation .		13800	1.4	- 1.55	29946	Cum	100.00	2,994,600.00
2	Pipe								2,007,000.00
	273.1mm THK 4.8 MM THK		13800			13800	m	3000.00	41,400,000.00
3	MS Specials & Thrust blocks	;	@ 3% of pi	pe cost				3000.00	
4	Murum bedding		13800	1.4	0.2	3864	Cum	200.00	1,242,000.00
5	AV 80mm dia	28			0.2		Nos 1	200.00	772,800.00
	SV. 150mm dia	12		4. 4				15000.00	420,000.00
6	Valve chambers		11 11 11 11 11		- 1	12	Nos	10000.00	120,000.00
-		40				1.0	Nos	25000.00	1,000,000.00
	Refilling of pipes		29946	3864	1327	24754.96	Cum	26.00	643,628.90
-8	Major Structure crossings	1				. 1	No	1000000.00	1,000,000.00
_9_	Structure crossings	4				4	Nos	100000.00	400,000.00
								Total	
								Total	49,993,028.90



# Summery of Estimate for Jay Mahesh sugars Pawarwadi water supply scheme

Sr Description   Di K-7   Hours of pumping = 20 hours	
No	Amount
1 Jackwell & pumphouse 4m dia 12m ht jackwell & 4.5m ht pumphouse	Rs
Aapproach channel	. 2,000,000.00
Aapproach Bridge	2,300,000.00
2 Rising Main 300MM DIA DI K-7 PIPE	2,200,000.00
3 Pumps & Motors with column pipe & MS manifold	52,697,828.90
70HP X 2Nos @ Rs-10000/HP	
4 Electrical works with panel board, switch yard & transformer	1,400,000.00
	1,400,000.00
Total	61,997,828,90

# Estimate of DI Pipe Rising main

Sr	Items .	No	Length	Breadth	Donih		T		
No		110	. Longa	Dieadii	Depth	Qty	Unit	Rate	Amount
1	Excavation.		13800		4.55			Rs	Rs
2	Pipe		13000	1.4	1.55	29946	Cum	100.00	2,994,600.00
	300mm Dia DI K-7 PIPE	1	13800			13800		-	
3	MS Specials & Thrust blocks		@ 6% of pi			13000	m	3100.00	42,780,000.00
4	Murum bedding		13800						2,566,800.00
	AV 80mm dia	28	15000	1.4	0.2	3864		200.00	
- 3.0	SV 150mm dia	12				28	Nos	15000.00	420,000.00
6	Valve chambers					12	Nos .	. 10000.00	120,000.00
	Refilling of pipes	40					Nos	25000.00	1,000,000.00
	Major Structure crossings		29946	3864	1327	24754.96	Cum	26.00	643,628.90
9	Structure crossings	1				1	No	1000000.00	1,000,000.00
	On delute crossings	4				. 4	Nos	100000.00	400,000.00
Total								52,697,828.90	



# Summery of Estimate for Jay Mahesh sugars Pawarwadi water supply scheme

Type of pipe: HDPE Hours of pumping = Description Amount No Jackwell & pumphouse 4m dia 12m ht jackwell & 4.5m ht pumphouse 1 2,000,000.00 Aapproach channel 2,300,000.00 Aapproach Bridge 2,200,000.00 Rising Main 315MM OD PN-8 RATING 43,783,028.90 Pumps & Motors with column pipe & MS manifold 55HP X 2Nos @ Rs-10000/HP 1,100,000.00 4 Electrical works with panel board, switch yard & transformer 1,100,000.00 52,483,028.90

### Estimate of HDPE Rising main

Sr	Items	No	Length	Breadth	Depth	Qtv	Unit	Rate	Amount
No		a Laurente						Rs	Rs
1	Excavation .		13800	1.4	1.55	29946	Cum	100.00	- 2,994,600.00
2	HDPE Pipe								-
	315mm Dia PN 8	1	13800	-		13800	m	2400.00	33,120,000.00
3	MS Specials & Thrust blocks	· -	@ 10% of	pipe cost	t		- :		3,312,000.00
4.	Murum bedding	•	13800	1.4	0.2	3864	Cum	200.00	772,800.00
5	AV 80mm dia	28				28	Nos	15000.00	420,000.00
100	SV 150mm dia	.12	-			. 12	Nos	10000.00	120,000.00
6	Valve chambers	40					Nos	25000.00	1,000,000.00
7	Refilling of pipes		29946	3864	1327	24754.96	Cum	26.00	643,628.90
8	Major Structure crossings	1				1	No	1000000.00	1,000,000.00
9	Structure crossings	4				4	Nos	100000.00	400,000.00
	Total .								



# Jay Mahesh Sugars Ltd. Design of M.S. Pipe Rising Main

SI	No	Description	1 Imit			
1	а	Outer dia of M.S pipe	- Unit	Alt-1	Alt-2	Alt-3
	b	Inner dia of M.S pipe	m	0.219	0.273	0.32
	С	Total vol req considering losses per day	m	0.209	0.264	0.31
	d	Discharge( With 20 hrs pumping/day)	Cum-	4500	4500	4500
	-	pumping/day)	cumecs	0.063	0.063	0.06
_	Н	Length (L)	Cum/hour	225.00	225.00	225.0
		C Value of pipe	Km -	13.8	13.8	13.8
	1 .	Thickness of pipe		130	130	.130
		Velocity (V)	mm	4.80	4.80	7.90
2	-		m/s	1.815	1,146	.0.814
		1.65x0-4.87	m/km	15.681	5.121	2.225
_		Total Friction (Hf xlength)	m	216.395	70.665	30.69
_		Add towards bends etc., @ 10%	m	21.639	7.066	3.070
•	a	Residual Head	m	.1	1	1
_	1 1	Static Head (502-489.5)	m.	12.5	12.5	12.5
3		WATER HAMMER Hmax=CV/g				
-		C =1425/((1+KD/Ect)^.5)	m/s	1192	1148	1209
-		H max	m	220.45	134.11.	100.2
-		Thickness Calculation (Hoop tension)				
-		t=PD/2FS F=0.90 S=1200 Kg/sqcm	mm	4.88	2.23	1.37
		Provide Thk of (with corrosion allowance)	mm.	4.80	4.80	5.60
		Head on Rising main (2xoperating pressure)	m	503.07	182.46	94.54
-		Head on Rising main (Static + water hammer)	m	232.95	146.61	112.7
-		Max Head on Rising main ( Max of SI No-3e,3f)	m	503.07	182.46	112.7
-		Pumping main head (2b+2c+2d+2e)	m <sup>-</sup>	251.53	91.23	47.27
_		power req @BOWL(cum/hrXH)/(367.2xn(80%eff)	KW	193	70	36
	С	power req @iviotor(power req @ bowl(KW)/0.955)	KW	202	73	38
		Pumps				•
		No. of Pumps (Working + Standby)	Nos.	1+1	1+1	1+1
2 ,		KW/Pump	KW	193	70	36
0.1	- 1	HP/Pump	HP	259	94	49
	1.4	Q / Pump	LPS	62.5	62.5	62.5
	10%	Input Power of motor	KW	201.7	73.2	37.9
107	5	Head on pump	m	251,53	91.23	47.27
		Rising Main				a. ve
1000	5105	Outer dia of MS pipe.	mm	219	273.1	323.9
	of Tari	Length	m	13800	13800	13800
	3	Thickness of Pipe	mm	4.80	4.80	7.90

proposed MS rising main of 273 mm OD of 4.8mm thk



	From Jackwell to Tank					INPUT DATA FOR RAISING MAIN	
3L NC	DESCRIPTION	250	300	350		From Jackwell to Tank	
1	Discharge in( LPS) .	62.500	62.500	62.500		TYPE OF PUMP-VT PUMP	
2	Pumping Hours(hrs)	20	20	20	Jav N	lahesh Sugars Ltd.	
_3	Value of HWC for pipe	130	130	130		DI pipe	
4	Designed length (m)	13800	13800	13800	SLNO	DESCRIPTION	RESULTS
5	Loss per 1000m length,(m)	7.98	3.18	1.46	1	DESCRITION	RESULIS
6	Total friction losses (10%) Including bends & etc,(m)	121.169	48.204	22.213	· 2		
7	Delivery Head,(m)(pump level to FSL)	12.50	12.50	12.50	3		
8	Suction Head,(m)	0.00	0.00	0.00	4 .	Rate of pumping (cum/sec)	0.0625
9	Residual Head,(m)	1.00	1.00	. 1,00	5 .	Rate of pumping (Lph)	225000.00
10	Total Head,(m)	134,67	61.70	35.71	6	Number of Hrs of Pumping	20
11	BHP (80% EFFICIENCY)	140.28	64.27	37.20	7	Raté of Pumping (lps)	62,50
12	KW Required	104.65	47.95	27.75	. 8	C=Hazen Williams Constant for Pipe material	130
13	Cost of pumping machinery at 4000 per BHP	561123	257099	148804	9	L=Total Length or horizontal length of rising main	13800
14	Total Energy charges per year (0.746*20*365*hp*Energy Charges)	2100836	962576	557119	10		
15	M&R Depreciation Charges(at 7.5%of item14)	42084	. 19282	11160	31	DH = Delivery Head	12.500
19	Total O&M Charges	2142920	981858	568279	12	RH=Residual Head (m)	. 1
17	Capitalised value of O&M Charges	14709002	6739474	3900667	13		
18	Cost of pipe Rs/per m	2750.00	3830.00	4400.00	14	LWL	489.500
19	Total cost of pipes	37950000	52854000	60720000	15	Rl of Full Supply Level .	502.000

VATER HAMMER DESIGN FOR RISING MAIN

20 Grand total of capitalised cost for 10 years

	DESCRIPTION	250	300	350 .
NO	Dia(mm)(inner dia)	240	290	340
1	Type of pipe	DI K-7	DI K-7	DI K-7
2	Pipe rating(KSC)	50.00	50.00	50.00
3	Length(m)	13800	13800	13800
4	Discharge(Cumecs)	0.0625	. 0.0625	0.0625
5	R.L.at sumpwell	489.5	489.5	489.5
6	RI of Full Supply Level of filter water tank -	502	502	502
7.	Head of pumping main	12.5	12.5	- 12.5
8	Thickness(mrn)	8.00	9.00	10.00
9 %	Area of pipe(sqm)	0.04524365	0:066058868	0.09080149
10	Velocity(m/s)	1.38	0.95	0.69
1	Pressure wave velocity(m/s)	1219.64	1207.74	1198.46
12	Water hammer pressure(m)	171.75	116.48	84.09

53220125

	Options for selection of D	esign Press	ures .	
14	(1) Design Pressure Static Head + Water Hammer Head	184:25	128.98	96.59
	(2) Design Pressure = 2 x Static Head	25.00	25.00	25.00
16	Design Head (m)	184.25	128.98	96.59
	Total Pressure (Ksc)	18.42	12.90	9.66
18	Required Pressure Class of Pipe	50.00	50.00	40.00

<b>₹OVIDE 70 HP-2Nos</b>	

С.	130
Q	62.50
L	13800
Т	20
DH	12.5
SH	0
RH	1
RL of GL	
@ filter	489.500
RL OF.	0
FSL	502
RATE OF	6
pipe,mat	pvc



# Jay Mahesh Sugars Ltd.

# DESIGN OF HOPE RISING MAIN

1	SI	No	Description .	Unit	Alt-1	Alt-2	Alt-3
Diameter (Inner Dia)	1-			mm	250		
C   Total vol req considering losses per day   Cum   4500   4500   4500   4500   d   Discharge (With 20 hrs pumping)   cumecs   0.063   0.06		b		m	0.232		
Cum/hour   225			Total vol req considerng losses per day	Cum			
Cum/hour   225   225   225   225		d	Discharge( With 20 hrs pumping)	cumecs	0.063	0.063	0.063
Elength (L)	1			Cum/hour	225	225	
f         No of Rows of pipe         Nos         1         1         1           g         Type of pipe         HDPE         PN16         PN12.5         PN8           h         C Value         145         145         145         145           i         Velocity (V)         m/s         1.478         1.173         0.921           2         a Friction/km S=Q^1.85x10.64/C^1.85xd^4.87         m/km         7.778         4.424         2.454           b         Total Friction (friction/km x length)         m         107.335         61.050         33.870           c         Add towards bends valves in R.M.etc., @ 10%         m         10.734         6.105         3.387           e         Residual head         m         1.000				· Km	13.8	13.8	
h   C Value		f		Nos			
h   C Value				HDPE	PN16	PN12.5	PN8
i         Velocity (V)         m/s         1.478         1.173         0.921           2         a         Friction/km         S=Q^1.85x10.64/C^1.85xd^4.87         m/km         7.778         4.424         2.454           b         Total Friction (friction/km x length)         m         107.335         61.050         33.870           c         Add towards bends valves in R.M.etc., @ 10%         m         10.734         6.105         3.387           e         Residual head         m         1.000         1.000         1.000           d         Static Head (502-489.5)         m         12.5         12.5         12.5           3         a         Total Head (For Pumping main)         m         131.57         80.65         50.76           b         power req @BOWL(cum/hrXH)/(367.2xn(80%eff)         KW         101         62         39           c         power req @Motor(power req @ bowl(KW)/0.955)         KW         106         65         41           Pumps/ Row           1         No. of Pumps         Nos.         2         2         2           2         KW / Pump         KW         101         62         39           3         Q / Pump <t< td=""><td></td><td>h</td><td></td><td></td><td>145</td><td></td><td></td></t<>		h			145		
2   a   Friction/km   S=Q^1.85x10.64/C^1.85xd^4.87   m/km   7.778   4.424   2.454   b   Total Friction (friction/km x length)   m   107.335   61.050   33.870   c   Add towards bends valves in R.M. etc., @ 10%   m   10.734   6.105   3.387   e   Residual head   m   1.000   1.000   1.000   1.000   d   Static Head (502-489.5)   m   12.5   12.5   12.5   12.5   3   a   Total Head (For Pumping main)   m   131.57   80.65   50.76   b   power req @BOWL(cum/hrXH)/(367.2xn(80%eff))   KW   101   62   39   c   power req @Motor(power req @ bowl(KW)/0.955)   KW   106   65   41		i		m/s	1.478		0.921
c         Add towards bends valves in R.M.etc., @ 10%         m         10.734         6.105         3.387           e         Residual head         m         1.000         1.000         1.000           d         Static Head (502-489.5)         m         12.5         12.5         12.5           3         a         Total Head (For Pumping main)         m         131.57         80.65         50.76           b         power req @BOWL(cum/hrXH)/(367.2xn(80%eff)         KW         101         62         39           c         power req @Motor(power req @ bowl(KW)/0.955)         KW         106         65         41           -         Pumps/ Row	2	а		m/km	7.778	4.424	
C   Add towards bends valves in R.M. etc., @ 10%   m   10.734   6.105   3.387     e   Residual head   m   1.000   1.000   1.000     d   Static Head (502-489.5)   m   12.5   12.5   12.5     3   a   Total Head (For Pumping main)   m   131.57   80.65   50.76     b   power req @BOWL(cum/hrXH)/(367.2xn(80%eff)   KW   101   62   39     c   power req @Motor(power req @ bowl(KW)/0.955)   KW   106   65   41     Pumps/Row		b		m	107.335	61.050	33.870
e Residual head       m       1.000       1.000       1.000         d Static Head (502-489.5)       m       12.5       12.5       12.5         3 a Total Head (For Pumping main)       m       131.57       80.65       50.76         b power req @BOWL(cum/hrXH)/(367.2xn(80%eff))       KW       101       62       39         c power req @Motor(power req @ bowl(KW)/0.955)       KW       106       65       41         Pumps/ Row       No. of Pumps       Nos.       2       2       2         2 KW / Pump       KW       101       62       39         3 Q / Pump       Cum/Sec       0.063       0.063       0.063         4 Head on pump       m       131.57       80.65       50.76         Rising Main/ Row       m       13800       13800       13800         2 Length       mt       13800       13800       13800		С		m	10.734	6.105	
d   Static Head (502-489.5)		е		m	1.000	1.000	
b power req @BOWL(cum/hrXH)/(367.2xn(80%eff) KW 101 62 39 c power req @Motor(power req @ bowl(KW)/0.955) KW 106 65 41  Pumps/ Row  1 No. of Pumps Nos. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		d		. m	12.5		12.5
c         power req @Motor(power req @ bowl(KW)/0.955)         KW         106         65         41           Pumps/ Row         1         No. of Pumps         Nos.         2         2         2           2         KW / Pump         KW         101         62         39           3         Q / Pump         Cum/Sec         0.063         0.063         0.063           4         Head on pump         m         131.57         80.65         50.76           Rising Main/ Row              250         280         315           2         Length         mt         13800         13800         13800	.3	а		m	131.57	80.65	50.76
Pumps/ Row         Nos.         2         2         2           1 No. of Pumps         Nos.         2         2         2           2 KW / Pump         KW         101         62         39           3 Q / Pump         Cum/Sec         0.063         0.063         0.063           4 Head on pump         m         131.57         80.65         50.76           Rising Main/ Row         m         250         280         315           2 Length         mt         13800         13800         13800		b		. KW	101	62	39
1     No. of Pumps     Nos.     2     2     2       2     KW / Pump     KW     101     62     39       3     Q / Pump     Cum/Sec     0.063     0.063     0.063       4     Head on pump     m     131.57     80.65     50.76       Rising Main/ Row       1     Dia (OD) OF PVC     mm     250     280     315       2     Length     mt     13800     13800     13800	<u> </u>	C	power req @Motor(power req @ bowl(KW)/0.955)	KW	106	65	41
1     No. of Pumps     Nos.     2     2     2       2     KW / Pump     KW     101     62     39       3     Q / Pump     Cum/Sec     0.063     0.063     0.063       4     Head on pump     m     131.57     80.65     50.76       Rising Main/ Row       1     Dia (OD) OF PVC     mm     250     280     315       2     Length     mt     13800     13800     13800			Pumps/ Row				
2     KW / Pump     KW     101     62     39       3     Q / Pump     Cum/Sec     0.063     0.063     0.063       4     Head on pump     m     131.57     80.65     50.76       Rising Main/ Row	-	1		Nos	2	2	2
3       Q / Pump       Cum/Sec       0.063       0.063       0.063         4       Head on pump       m       131.57       80.65       50.76         Rising Main/ Row         1       Dia (OD) OF PVC       nm       250       280       315         2       Length       mt       13800       13800       13800		2					
4 Head on pump       m       131.57       80.65       50.76         Rising Main/ Row         1 Dia (OD) OF PVC       mm       250       280       315         2 Length       mt       13800       13800       13800	-						
Rising Main/ Row         nm         250         280         315           2 Length         mt         13800         13800         13800		4					
1. Dia (OD) OF PVC     .mm     250     280     315       2. Length     mt     13800     13800     13800			Rising Main/ Row				
2 Length mt 13800 13800 13800	-	1.		. mm	250	280	315
		2	Length				

With ref. to max allowable velocity, we propose of dia

315 mm OD



# [ Prescribed under Rule 18(7)]

# **HEALTH REGISTER**

(In respect of person employees is occupations declared to be dangerous operations under section B7)

# Company Name: NSL SUGARS LIMITED UNIT 3 PAWARWADI

Fitness Checkup Period 25-Jan-17 To 25-Jan-18

Sr No	Emp Code	Employee Nove				Nature of Job	Raw Material or	<b>Employee Fit</b>	Signature of
			Sex	Age	Date of Empl	or Occupation	Bye Product handled		Certifying Surgeo
3	1	MAHADEV RAM DUHTDEMAL	Male	46				Fit	
4	2	DHUMAL SUNIL VAIJENATH	Male	36	AND	ALL THE SALE OF THE PERSON OF THE SALE OF	MENTERLAND OF THE PROPERTY OF	Fit	A CHARLES OF THE PROPERTY OF T
5	3	SURWASE DATTATRYE BHAGWAN	Male	49		THE PARTY OF THE P	COLUMN DESCRIPTION OF THE PROPERTY OF THE PROP	Fit	THE PERSONNEL CONTRACTOR AND ADDRESS OF THE PERSONNEL CONTRACTOR AND ADDRESS OF THE PERSONNEL CONTRACTOR ADDRESS OF THE PERSONNEL CONTRACTOR ADDRESS OF THE PERSONNEL CONTRACTOR ADDRESS OF THE PE
6			Male			THE RESERVE TO SERVE THE PARTY OF THE PARTY	delining the second sec	Fit	Processor and the contract of
7	4	SHEJUL DATTATRYA LAXMAN	Male	38	**************************************	CHARTELLING THE PROPERTY OF THE WARRANT BELLEVILLE AND	White are the control of the control	Fit	STATE OF THE STATE OF THE CONTRACTOR OF THE STATE OF THE
8	5	PAWAR DHONDIRAM PANDURANG	Male	42		MINIMALIA DE LA CASA D			
9			Male		The state of the s			Fit	
10	5	PAWAR DHONDIRAM PANDURAN	Male	42				Fit	
11	6	TOLE KALYAN GANPAT	Male	32		1		Fit	
12	7	BHASKAR ARJUN PANDURANG	Male	42				Fit	
13	8	Choughule Venkat Bhagwanrao	Male	52				Fit	t .
14	9	DILIP SHARMA	Male	45	TOTAL PROPERTY AND SALES STREET WAS IN COURSE AND SALES	TO LANGE BEAUTY TO THE THE THE PERSON OF THE		Fit	MARKET THE PROPERTY OF THE PRO
15	10	RATHOD SUGRIV	Male	33			ORGANIS CONTRACTOR OF THE PROPERTY OF THE PROP	Fit	CHIEF CONSTRUCTION OF THE PROPERTY OF THE PROP
16	11	BHASKAR DINKAR KOKATE	Male	43				Fit	डॉ सुर्यकाल मुंढे न प्रमाणक शत्यांचिकत्यव क ACS05 SM/20
17	12	SATISH BABURAO KUNDKAR	Male	32	The state of the s	announcement and an annual section of the section o	MATERIAL PROPERTY OF THE PROPE	Fit	डा रंग महाविकत्ये
18			Male		THE RESIDENCE OF THE PROPERTY	MINISTER PROPERTY OF STREET BEING AND SMITH STREET	ROW TOWN THE PROPERTY OF THE P	Fit	त प्रमाणक शर्म
19	13	CHAVHAN VILAS PARBHV	Male	- 30				Fit will	ACSUS
20	14	MUDRIKA YADAV	Male	42	MINISTER CONTRACTOR AND PROPERTY AND PARTY AND PROPERTY A	MINISTER III COLONIA MINISTERI III COLONIA INCIDENTI INC	CONCUPATO DE PROPRETATO DE PROPRETATO DE PROPRETATO DE CONTURSO DE LA CONTURS DE LA CONTURS DE CONTURS DE CONT		
21	15	KANDE RAJEBHAV PARBHAKAR	Male	42	We re-	AND THE PROPERTY OF THE PARTY O	THOSE MAN OF THE PROPERTY CONTRACTOR OF THE PROPERTY OF THE PR	Fit	THE PART LLCOW PROPERTY OF SECURIOR STATE AND ASSESSMENT OF SECURIOR SECURI
22	16	SHENDGE DATTATRYA RAMKISAN	Male	41				Fit	
23	17 .	GAWTE SARJERAO MADANRAO	Male	36	Section 11	THE RESERVE OF THE PROPERTY OF	THE PERSON OF TH	Fit	MINISTER OF THE PROPERTY OF TH
24	18	MORE SUBHASH MUNJABHAU	Male	36	The same of the sa	AND THE PROPERTY AND ADDRESS OF THE PROPERTY O		Fit	properties and resource entry that were substituted and the substitute
25	19	DHAWALE HARIBHAU PANDURANG	Male	36				Fit	
26		P S SONAWNE	Male	45				Fit	
27	21	SANTOSH CHVHAN	Male	30		THE RESIDENCE OF THE PARTY OF T		Fit	
28	22	TUKARAM MAROTIRAO MANE	Male	40	The street of th			Fit /	
29		YADAV SHREERAM RAJDEV	Male	43				Fit /	The state of the s
		THE STATE CHARLES AND A STATE OF THE STATE O	Iviale	43				Fit	

# [ Prescribed under Rule 18(7)]

### **HEALTH REGISTER**

(In respect of person employees is occupations declared to be dangerous operations under section B7)

Company Name:- NSL SUGARS LIMITED UNIT 3 PAWARWADI

Fitness Checkup Period <u>25-Jan-17</u> To <u>25-Jan-18</u>

						Nature of Job		Employee Fit	
r.No	Emp Code	e Employee Name	Sex	Age	Date of Empl	or Occupation	Bye Product handled		Certifying Surgeor
29	23	YADAV SHREERAM RAJDEV	Male	43		NOTE OF THE PROPERTY OF THE PR		Fit	
30			Male		Principles STREET, STR		A STATE OF THE STA	Fit	
31	24	M SHIVAIH	Male	32				Fit	
32	25	GAIKWAD RAMESHWAR DATTATRYA	Male	35			Transition to the Demont of the Uplean Association or Transition of the Uplean Association of th	Fit	A STATE OF S
33	26	SAKERA ASHOK KALIDAS	Male	28		Note the section as early to a select the property of the section	C PHILIPPINISH HAND AND REAL PROPERTY OF THE P	Fit	CTTORN TOTAL LINE AND THE AND
34	27	SHELKE SAWALARAM PRABHAKAR	Male	35				Fit	LINING NA PROBA
35	28	KULKARNI SANTOSH JAGANNATH	Male	43		4		Fit	1
36	29	THAWRE ASHOK KADAJI	Male	36			The Control of Control	Fit	
37	30	CHAVAN BABURAO ALU	Male	40	The state of the s			Fit	
38	31	Dhakne Shankar Madhavrao	Male	43				Fit	
39	32	PHAPHAL HARIDAS SOPAN	Male	33				Fit	
40	33	DHAPE VISHNU ASHRUBA	Male	44	A CONTRACTOR OF THE PROPERTY O			Fit	201111111111111111111111111111111111111
41	34	YADAV DILIP RAJKISHOR	Male	40				Fit	1
42	35	KOTHAWALE BIBISHAN SHAHAJI	Male	46	A COMPANY OF THE PROPERTY OF T		A SAME OF THE PROPERTY OF THE	Fit	Faish
43	36	MANE DATTATRY LAXMAN	Male	35		CONTROL OF THE PROPERTY OF THE	A STATE OF THE STA	Fit	डॉ एउंग्लान घुटे डॉ एउंग्लान प्रत्याविकत्य के ACS05 SM
44	37	DHUMAL RAJBHAV	Male	35				Fit	म रहेराया विकित
45	38	JAIRAM YADAV	Male	45		13.7 (8.00) 13.5 (13.00) 13.7 (13.00)	A THE PROPERTY OF THE PROPERTY	Fit	THING SICA
46	39	NAVNATH SUDAMMOTE	Male	32	700000000000000000000000000000000000000			Fit m	TEN CSOS
47	40	PARBHVNATH PARSAD	Male	45				Fit	क्र
48	41	JADHAV DATTATRYA RATAN	Male	34	A SECOND	nachturarius shiele Cristorice (Schilderfisher University or communities	A SECTILLE OF HITTS OF THE PARTY OF T	Fit	To see a second design of the second
49			Male		The second secon		2 COLOR OF STREET OF STREE	Fit	
50	42	RATHOD GANESH GOWARDHAN	Male	44				Fit	AND THE PROPERTY OF THE PROPER
51	43	PAWAR RAJEBHAU CHAGAN	Male	38		ATTENDED TO THE PARTY OF THE PA	100-110-100-100-100-100-100-100-100-100	Fit Lin	wited Toutie
52	44	PAWAR RAMRAO JEMU	Male	44	POLICE DE LA CONTRACTOR	ARCEPTOS LIGIDAS LA SALAS LA S	Control (1946) and property (1970) and a second second	Fit	# E22 10 10 10 10 10 10 10 10 10 10 10 10 10
53	45	VAIDYA GYANOJI SHRIRANG	Male	39				Fit	
54	46	CHANDRAMA SINGH PANCHDEO	Male	42	The state of the s		Table.	Fit	Name of the Control o
55	47	DINANATH JAIMANGAL YADAV	Male	40	To a second seco	ROTATIO CORGA CAMPAGNA AND AND AND AND AND AND AND AND AND A	CONTROL OF THE PROPERTY OF THE	Fit	AND ASSESSED OF THE STREET, AN

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### **HEALTH REGISTER**

(In respect of person employees is occupations declared to be dangerous operations under section B7)

# Company Name: NSL SUGARS LIMITED UNIT 3 PAWARWADI

Fitness Checkup Period <u>25-Jan-17</u> To <u>25-Jan-18</u>

S 81	- 0					Nature of Job	Raw Material or	Employee Fit	Signature of
	Emp Code		Sex	Age	Date of Empl	or Occupation	Bye Product handled		Certifying Surgeon
56	48	ASWALE UMAKANT BABURAO	Male	52			THE COLUMN TWO IS NOT THE PARTY OF THE PARTY	Fit	The test of the street
57	49	SK. NAZAM SK.HUSAN	Male	40		A CONTRACTOR CONTRACTO		Fit	THE RESERVE THE PROPERTY OF TH
58	51	MANE MALHARI TUKARAM	Male	45				Fit	WHITE THE PARTY OF
59	52	ANKOSHKAR MAROTI	Male	45		THE CONTRACTOR OF STATE STATE STATE OF THE S	AND ASSESSMENT OF THE PROPERTY	Fit	RA INCLEA - FLEESCH: EINEISTERRITTENS SLAGOWOR (RED ATT FLEESCHELLES DER AUTOK
60	53	GHANGHAW GHANGHAV PIRAJI DADARAO	Male	33	THE RESERVE TO A SECOND CONTRACT OF THE SECON		AT MALE PER LEGISLATION OF THE OFFICE OF THE PER LEGISLATION OF THE	Fit	PROCESSOR MANAGEMENT OF CHAPTER STATEMENT TO STATE STATEMENT OF THE STATEM
61	54	JADHAV VITHAL SHANKAR	Male	31			,	Fit	
62	55	PTKALE	, Male	37				Fit	
63	56	RAMESHWAR GYNOBA RAUT	Male	30		4	*	Fit	
64	57	SHIVSHANKAR JAISWAL	Male	36				Fit	
65	58	PAWAR ANGAD NAVNATH	Male	22		1		Fit	
66	59	SHIVAMBABU DANDEM	Male	46		The state of the s		Fit	THE PERSON NAMED IN COLUMN TO PARTY OF THE PERSON NAMED I
67	60	CHAVAN CHAGAN THAWRA	Male	58	27774-000274.5-111111111111111111111111111111111111	REPORTED THE PROPERTY OF THE SENSE S	PROPERTY OF THE PROPERTY OF TH	Fit	And Theoretical and the second
68	61	PAWAR MAROTI UTTAM	Male	31			The state of the s	Fit	The state of the s
69	62	SK. RAFIK SK. KADAR	Male	41	SECURIOR DE LA COMPANION DE LA		(R. 1961) elle mitematicus un custique accionate social consensation de la companya de la companya de la compa	Fit	THE RESIDENCE OF THE PROPERTY
70	63	YADAV OMPRAKASH NAGINA	Male	43		THE PERSON NAMED AND PASSESSED AND PASSESSED THE PERSON NAMED	OCCUPANTA BANKSHI MARKAMATAN MARK	Fit	the statement of the st
71	64	KUSHWAHA OMPRAKASH VIDHYACHAL	Male	41				Fit	
72	65	ROKADE RAMKISAN BHIVAJI	Male	41		22   1923   11   17   1924   10   12   12   12   12   12   12   12		traunica and 100 strateges the restaurant resistant consumer	WHERE AN EXPONENT A CHARLES AND AN AND AN AND AN ANALYSIS AND AN ANALYSIS AND AN ANALYSIS AND ANALYSIS ANALYSIS AND ANALYSIS ANALYSIS AND ANALYSIS AND ANALYSIS AND ANALYSIS AND ANALYSIS AND ANALYSIS AND ANALYSIS ANALYSIS AND ANALYSIS ANALYSIS ANALYSIS AND ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANA
73	66	PAWAR KESHAV YAMAJI	Male	24		\$ 12.0 10.0 12.2 11.2 11.2 11.2 11.2 11.2		Eit	33.0
74	67	KUNDKAR ASHOK SHIVAJI	Male	35				Fit	Dist.
75	68	BOCHARE UDDHAV NIVARATTI	Male	41	A A A A A A A A A A A A A A A A A A A	William with the state of the s	PROPERTY AND A SECOND SEC		न जेकाल 36
76	69	KAMESHWAR CHAUDHARY	Male	50	200			F#	मान भाल्याचिकित्सके।
77	70	LAKHICHAND YADAV	Male	35				Fit पाधिकृत	प्रमाणवः (15 SM 201
78	71	CHAVAN SHRIMANT KHANDU	Male	43	Additional to the second control of the seco	SECONDIFICATION CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONT	SALUTANI INTERNETITI ILIANI ARVITANI INTERNETITANI INTERNETITI ILIANI INTERNETITI ILIANI INTERNETITI ILIANI I	Fit	माणक शल्यांविकत्यक, त ACS05 SM/201
79	72	YADAV SATISH SHIVAJIRAO	Male	39		THE CONTRACT OF THE CONTRACT O	TO THE PROPERTY OF THE PROPERT	Fit	
80	73	RODE DATTA MAHADU	Male	. 38				Fit	
81	74	KALE LAXMAN DHONDIRAM	Male	36				Fit /	
82	75	THETE MOTIRAM VISHWANATH	Male	48				Fit	

# [ Prescribed under Rule 18(7)]

# HEALTH REGISTER

(In respect of person employees is occupations declared to be dangerous operations under section B7)

# Company Name:- NSL SUGARS LIMITED UNIT 3 PAWARWADI

Fitness Checkup Period 25-Jan-17 To 25-Jan-18 Name of Certifying Surgeon: Dr.S.B. Mundhe

,						Nature of Job	Raw Material or	Employee Fit	Signature of	
Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	or Occupation	Bye Product handled		Certifying Surgeon	
83	76	THONGE PANDIT TULSIRAM	Male	45		**************************************		Fit	THE THREE PROPERTY AND A STREET PROPERTY OF THE PROPERTY OF TH	
84	77	THERE BHAGWAT	Male	35	TORON OF THE STATE	AND		Fit	*	
85	78	ADAVE RAHEBHAU	Male	32				Fit	CHARLES THE CONTRACTOR OF SAME AND THE CONTRACTO	
86	79	BILWAL KALYAN SINGH ASHARAM	Male	56	70000001 LEET WY - 11 Tr. LE CRELLY 00007 1000000 2000 2000 2000 2000 2000			Fit	THE REAL PROPERTY AND THE PROPERTY OF THE PROP	
87	80	PAWAR ASHOK VIJANATH	Male	30	TESTIVICE CONTESTINATE (#1044600000) CENTESTIVO DE SE		ı	Fit		
88	81	GIRI SHYAM MURLIDHAR	Male	32				Fit		
89	82	RAMESHWAR THAWRE	Male	40	4	1		Fit		
90	83	CHAVAN GANESH PANDHARINATH	Male	36				Fit		
91	84	KHADUL RAMESHWAR RADHAKISAN	Male	34		1		Fit		
92	85	GHAYTIDKE KRISHNADEV	Male	33			AND THE RESERVE OF THE PROPERTY OF THE PROPERT	Fit	I MANUFACTURE DE CONTROL DE CONTR	
93	86	NAWLE BALKRISHNA SHANKARRAO	Male	54			Carrier was a Description of the continue of t	Fit	E MANAGEMENT SAN CONTINUES OF THE REST OF THE PROPERTY OF THE	
94	87	DHAGE BALASAHEB	Male	45				Fit	2000	
95	88	KALE DATTA SOPANRAO	Male	29		1400000417022200041.5700111111	TO REPORT AND ADDRESS OF THE PROPERTY OF THE P	Fit	THE RESERVE OF THE PROPERTY OF	
96	89	MANE SATYAPREM BAJIRAO	Male	42			TO SOME MANUFACTURE AND THE COURT OF THE COU	Fit	> Sile	
97			Male					Fit	1	
98	89	MANE SATYAPREM BAJIRAO	Male	42			THE STOCKED WITH THE PROPERTY OF THE STOCKED WITH THE STO	Fit	र्मार्गकात उस्ति।	
100	90	TONDE DATTATRYA BABAN	Male	28				Fit	पुर्वकात मुंदे प्राचिकात मुंदे प्राचिक शल्पाचिकालक जिल् ACSOS SMI2016	
101	91	DATTA BHARAT	Male	25	0131144			Fit प्राधिकृत	CSUS SMIZO	
102	92	DHAKNE MALHARI SAKHRAM	Male	40			THE RESIDENCE OF THE PROPERTY	Fit 🐺	प्रमाणक शल्याचीकेत्सका । ACS05 SM12046	
103	93	KAMBLE VIDHWANATH LAXMAN	Male	45			Name of the state	Fit		
104	94	KHARADE SATYAPREM ASHOKRAO	Male	35				Fit		
105	95	KAPSE SANJAY EKANTH	Male	42		THE STATE OF THE S	TO THE THE PART OF	Fit	THE	
106	96	DAKE ASHOK VITHALRAO	Male	31	No.	THE OWNER HAVE A PROPERTY OF THE PROPERTY OF T	DAY COLUMN TO THE PROPERTY OF	Fit	MALE, YOUR TO BE ASSESSED ASSESSED ASSESSED ASSESSED. AND ASSESSED ASSESSED.	
107	97	GHANGHAV GORAKH RAMBAHU	Male	36				Fit		
108			Male				The state of the s	Fit /	Total Control of the	
109	98	GIRI CHINTMANI PRALADH	Male	34				Fit		
110	99	JAY PARKASH YADAV	Male	45				Fit		

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,		1				Nature of Job	Raw Material or	Employee Fit	Signature of
Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	or Occupation	Bye Product handled	*12001107_003000000000000000000000000000000	Certifying Surgeo
111	100	GADVE ANGAD BABURAO	Male	30		A THE RESIDENCE OF THE PERSON	THE	Fit	THE STATE AND ADDRESS OF THE STATE AD
112			Male					Fit	
113	101	SUNIL KUMAR	Male	41		THE STATE OF THE S		Fit	
114	102	MANE CHANGURAM	Male	37				Fit	
115	103	NARVATE VITTAL	Male	32				Fit	
116	104	CHORMOLE AANANT	, Male	36				Fit	
117	105	PANKAJ SIGH	Male	26		,		Fit	1
118	106	JETANDRA PARSAD	Male	28				Fit	
119	107	MAROTI BHILLARE	Male	31		Account of the second of the s		Fit	2314.2021 602923 00000 0000000000000000000000000000
120	108	RAJKUMAR SINGH	Male	34				Fit	
121	109	RATHOD BANDU	Male	37				Fit	
122	110	BALASAHEB SAJUDE	Male	45			V BAD T B B B B B B B B B B B B B B B B B B	Fit	7
123	111	DATTATRYA KADAM	Male	49				Fit	/
124	112	R G RATHOD	Male	45		ACCUSTO CONTRACTOR VILLEGO CONTRACTOR DE LA CONTRACTOR DE	1 (100 m) (175 m) (1 m)	Fit	
125	114	B G PAWAR	Male	39		SOCIAL DELLA LEGICAL TO CONTRACTOR AND		Fit	ALLANDON ALLA COLABORO DO COLABORO DO COLA COLO COLO COLO COLO COLO COLO COL
126	115	DONGRE DILIP	Male	55				Fit	Cilc
127	116	UTTAM PAWAR	Male	45		11-11-1-17-511-00-100-11-1-1-1-17-1 (00-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	The state of the s	Fit	4
128	118	KOLHE SATISH	Male	33	(Control of the Control of the Contr	and the substance of the transfer of the substance of the	**************************************	Fit _	प्राप्त मुळे प्राणक शल्याचिकित्सक,रि ACS05 SMI201
129	119	LAXAMAN THOURE	Male	40		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Fit	माणक शत्याचिकस्यका, ACS05 SMI201
130	120	SURESH GIRI	Male	39	712227777 PROPERLAMBERTY PRO-CONTRIBUTION AND PRO-CONTRIBUTION OF THE PROPERTY	380603 F0 60 A 60 F0 60 E0		Fitप्राधिकृत	CS05 SWI
131	121	DEVIDAS CHUMBUDE	Male	40				Fit 攻	
132	122	RAOUT PANDURANG	Male	33				Fit	
133	123	VINAYAK KADAM	Male	42		CONTRACTOR OF THE STATE OF THE	purational accountation is then, were the town addition the China	Fit	
134	124	HARIBHAU THOURE	Male	32	Control of the following the formation of the following th	**************************************	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fit /	A COLOR MANUEL ( 1 COLOR MANUEL ) A COLO
135	125	BAGWANT THOURE	Male	26				Fit /	
136	126	VIJAYJOSHI	Male	46				Fit	
137	117	VAIBHAU TUKARAM SUJDE	Male	30	The state of the s		THE RESIDENCE OF THE RE	Fit	

# [ Prescribed under Rule 18(7)]

### **HEALTH REGISTER**

(In respect of person employees is occupations declared to be dangerous operations under section B7)

# Company Name:- NSL SUGARS LIMITED UNIT 3 PAWARWADI

Fitness Checkup Period 25-Jan-17 To 25-Jan-18

						Nature of Job	Raw Material or	Employee Fit	Signature of
Sr.No	Emp Code	Employee Name	Sex	Age	Date of Empl	or Occupation	Bye Product handled	_	Certifying Surgeon
138	127	GANESH THOURE	Male	27			THE RESERVE OF THE PROPERTY OF	Fit	A STATE OF THE PROPERTY OF THE
139	128	UTTAM RATHOD	Male	44	280000 III II SERROOPERLIII-ERAZILERARIFE (WY-0006EREKKEER)		T BERKENDER EIN ARTHER FETER BERKEIN FENEN FENEN FENEN TIEDER DER EINSTEIN EINSTEIN FEREN FETER FETER FETER FE	Fit	THE RESIDENCE OF THE PROPERTY
140	129	SHIVAJI DAĐVE	Male	47		to polyne when the nittingenine		Fit	
141	130	RAJEBHAU THOURAT	Male	40		manada da karangan ang at ang 1994 da ang 1994 da ang 1996 da a	TOTAL TOTAL CONTROL OF THE STATE OF THE STAT	Fit	gramme de a de mais francis contra a contra de marter en la respecta de martin de martin de martin de activida
142	131	VIKRAM MUNGLE	Male	28		1		Fit	AND AND ASSESSMENT OF THE PROPERTY OF THE PROP
143	132	SUNDAR PAWAR	Male	30				Fit	
144	133	R B MOGARKAR	Male	63	- Inches	a .	e tanto de la transportación d	Fit	
145	134	UTTAM CHAVHAN	Male	50				Fit	Commission in 46144444444444444444444444444444444444
146	135	LALAN YADAV	Male	53				Fit	
147	136	SBDAKE	Male	35				Fit	
148	137	SURAJ TIWARI	Male	24			A second	Fit	
149	138	SANTOSH PODE	Male	30	MORE PROMOTING TO THE LANGUAGE PROPERTY CONTROL OF THE LANGUAGE PR	A EXPLINATION AND COLUMN STEAM CONTRACTOR AND	PHANIA NA CALLISTON GLI ADRIBUTURA SA PROLIZA I ZIONES PROSTENZA SA PARLI PAR LI MARTE ENTRE ZOST EXPRESENTATOR	Fit	
150	139	S RADHAKRISHNA	Male	45				Fit	1 CHE:
151	140	GOVIND RATHOD	Male	35	PARHODOROPHUS CROOKS CLISS BRITTE OVER THAN PROGRAMODAL AGENT SELECT	11   POINT   PRINTER 2	AND	Fit	A constant of the constant of
152	141	K KISHOR KUMAR	Male	34			THE CONTRACTOR OF THE CONTRACT	Fit	मुणक शल्याचीकल्पक,जि.बी ACS05 SMI2016
153	142	ANIL JAGTAP	Male	30	The state of the s	Mile Williams		Fit 😅	रें जिल्लाक, जिल्ल
154	143	SHANKAR CHAVAN	Male	33	AND	LLLL MANGELEF FE FOR LLL LEFT PRESENCE LEFT REAL PARTY CONTROL FOR THE STATE CONTROL BETWEEN THE CONTROL B		Fit sound	भाणक शल्या द्या 2016
155	144	RUSHIKESH DESHMUKH	Male	38	2001.001.001.001.001.001.001.001.001.001	THE PROPERTY OF THE PROPERTY O	ocombi (ra es 1,1 com a egon fi com, est, per faga acomer figura es es como acab la casa (11 casa acomes (1) casa acom	Fit	भागक शल्याचीकत्सका, विकास स्थापक शल्याचीकित्सका, विकास स्थापक स्यापक स्थापक स्यापक स्थापक स्
156	145	HOKE ASHOK	Male	39				Fit	
157	146	PARSHANT MISHRA	Male	38			ALTERNATURA DE COMPANION PRESENCADA LA REPUBBLICA DE PERSONALION DE L'EXPERTISMA SERVICIO DE L'EXPERTISMA SERVICIONES DE L'EXPERTISMA SERVICIO	Fit	
158	147	D R SADURKAR	Male	49			### (Fig. 1)	Fit	
159	148	THOURAT GAOUTAM	Male	43				Fit	
160	149	RAVI KUMAR	Male	39	Zara rasperse en en monare persona en	PRACTICALIST CONTROL CONTROL THE RESERVE HELD MET IN THE SCRILLAGE HAS CONTROL TO THE SCRILLAGE HAS CONTROL TO	AMERICA STATE A STATE OF CONTROL	Fit	- A Liceard Company Comment Carrier State (Carrier Special Company Comment Carrier State (Carrier Special Comment Carrier Special Carrier Special Comment Carrier Special Carr
161	150	SHIVPARSAD CHAKARWAR	Male	29			M	Fit /	MINEO DIDIPERROBERAN CONTRACTOR DE CONTRACTO
162	151	ABHIJET KULKARNI	Male	28	A Paragraphic Control of the Control			Fit /	
163	152	DHIRENDRA PETERIYA	Male	28				Fit	7
164	153	AMIT AVASTHI	Male	26			and the second s	Fit	

# [ Prescribed under Rule 18(7)]

## **HEALTH REGISTER**

(In respect of person employees is occupations declared to be dangerous operations under section B7)

# Company Name:- NSL SUGARS LIMITED UNIT 3 PAWARWADI

Fitness Checkup Period 25-Jan-17 To 25-Jan-18

Sr No	Emp Code	Employee Name	Sex	Age	Date of Empl	Nature of Job or Occupation	Raw Material or Bye Product handled	Employee Fit	Signature of Certifying Surgeon
	11	1			Date of Litipi	or Occupation	bye Froduct Haridied		and the second s
165	154	SANTOSH KHANDAGUDE	Male	41		aroun, is an around the second second to		Fit ^	A THE PROPERTY OF THE PROPERTY
166	155	SOMNATH GAIKWAD	Male	42				Fit	
167	156	KAILAS PAWAR	Male	29	of canada and a			Fit	
168	157	AMOL JOSHI	Male	38	277000000000000000000000000000000000000		AND HELDER GLEEN HELD STREET, SPECIAL SPECIAL STREET, CONTRACTOR SPECIAL SPECI	Fit	
169	158	PARSHANT DIGRISKAR	Male	34	NAMES OF THE PROPERTY OF THE P	HILLELI II CLEEN STOSSACTION STATEMEN SAWCONDERON HELEKKOONDOORKONDOOR	4 The transfer party is the first that the cross states and the states of the first properties of the first party and the firs	Fit	
170	159	TAYANAK DATTATRY	Male	45				Fit /	
171	160	KADAM MEGHRAJ	Male	36		4		Fit /	Property of the control of the contr
172	161	TUKARAM VAGRE	Male	26				Fit /	THE REPORT OF THE PARTY OF THE
173	162	KAMBLE JALBA DIGAMBAR	Male	40		,		Fit	
174	164	AMAR SINGH	Male	32				Fit Por	Limited duti
175	165	BHARDE GAJANAN	Male	33	MANA LOUGH PRODUCTION OF THE PARTY OF T			Fit	Limited duti
176	166	RAJU LAXANATTI	Male	33	The state of the s			Fit	1
177	167	RAJENDRA RATHODE	Male	42				Fit	54
178	168	M A KHAN	Male	32	### 12 12 12 12 12 12 12 12 12 12 12 12 12		A PARA MENDARINEN MANAGEMENTAN PERSONAN PERSONAN PERSONAN AND ANALYSIS OF THE PERSON HALF PERSON AND A CONTROL	Fit	(-TITG Q
179	169	KAILASH CHOUDHARI	Male	42	The conference of the conferen	December 11 (1964-40) IN PLATIFICATION CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES C		Fit 🛋 🤻	रिकार कित्यक जिल्ला
180	170	BABAN YEWALE	Male	53			A TOTAL CONTINUE AND CONTINUE CONTINUES OF THE CONTINUE CONTINUE CONTINUES OF THE CONTINUES	Fit - mil	क शल्याचायाय
181	171	KAKDE CHANDRAKANT	Male	41	AND ADDRESS OF THE PARTY OF THE		TERRITORIS IN ILUMPATATORIS CELEFORMORIS IN MODERN DER REPORT DE LE CONTROL DE LA COMPANIO ANNO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANION DEL COMPANION DEL COMPANIO DEL COMPANIO DEL COMPANION DEL COMPANION DEL COMPANION DEL COMPANION DEL COMPANIO DEL COMPANION DEL COMPANION DEL COMPANIO DEL COMPANION DEL COMPANION DEL COMPANION DEL	Milaber	किश्वानिक ता की के श्रामी कि साम कि
182	172	DAKESS	Male	39	The state of the s		AND PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE STATE OF T	Fit	THE STREET, ST
183	174	PRAKASH MARWADE	Male	32			All the County of the County o	Fit	
184	173	GHAYTIDKE P C	Male	37	A TOTAL TO A TOTAL TO A TOTAL	ETMYCHININ MINISTILLI III SHELINI HAREET LIIBETT PERUNGANYA TSI MINISTILLI III SHELINI II SHELINI II SHELINI I	ALER PARAMETER A GREAT OF THE SERVICE STATE OF THE	Fit	
185	163	PHAPHAD BHAUSAHEB	Male	29				Fit	Description of the description of the control of th
186			Male			olderne mer til er tillatillat ide att		Fit	

## Dr. S. B. Mundhe M.B.B.S, M.D, D.C.H, A.F.I.H.

# MEDICAL CHECK-UP REPORT

Phone:

क ACS05 EM12016

Certified Surgeon Registo: 66488 Beed, Aurangabad ( Pre-employment / Periodical Examination )

Or. S. B. Mundhe 223184, 22358

# NSL SUGARS:LIMITED UNIT 3 PAWARWADI

	. UII	eck-up	Date <u>25-Jar</u>	1-17 To 2	5-Jan-18		
Employee Name:	GANE	SHT	HOURE				Sr No: 138
Employee Code:	127	De	ept name: VVT	₽			Age: 27 Y
Working Since:	Years	Hei	ght: 158 Cms W	eight: 60 Kgs	Dsgn:		Sex: Male
Present Co	mplaints	S Pro	esent Complaints	Nii			
Family History:	Hyper			sthematic Past	Nil		
Habits:	Tobac			Icoholic Histor			
Allergic to:	Nii			M/H and	O/H: NA		
General Ex	aminatio	n Ge	neral Appearance	: Healthy			
Pulse:	7	2 / mt	BP: [123]	/ 73 / mm of H	ig		
EYE NAD			ENT: NAD		Skin: N	6I	
Vision Near I	Right Eye:	N / 6	Far Right E	re: 6/6	With/Wi	thout Spects	Without Spects
Near	Left Eye:	N/6	Far Left Eye	: 6/6	Colour	vision:	Normai
Systemic E	xaminat	ion	LFT: WNL		ECG:	WNL	
RS: NAD			CVS: NAD		GI	T: NAD	
CNS: NAD			GUS: NAD		MS	: NAD	
Pathologic	al Exam	inatio	n \				
Test Description	Actual		Normal Range	Test Description	ותס	Actual	Nomial Range
laemoglobin:	emoglobin: 13.5 M:		5 to 18, F : 11.5.to 16	5.5 Lymphocytes		%	20 % to 40 %
otal W.B.C.	6800	4000 -	10000 c. mm	Monocytes:	7	%	1 % to 6 %
leutrophils:	60	50 % (	o 75 %	RBC:	4.5	mil/c.mm	4.08.0 mill/cmm
osinophils:	3	0°% to	6%	PCV:	41	%	38 % - 55 %
Pasophils:	Ð	0 % to	1 %	ESR:			M: 0-15 F: 0-20 mm/hr
Blood	Group:	Α	Positive	Blood Random	Sugar:		Upto 150 mg/dl
ipid Profil	e						
Test Description	Actual	11	Norma: nange	Test Description	oni /	Actual	Normal Range
Cholesterol:		1	30 - 250 mg/dl	VLDL:	-	0.0	Upto 35 mg/dl
HDL;	0.0	3	0 - 70 mg/dl	Chel. Hdl Ratio	D;		Upto 5.0 mg/dl
Trigleserides:	0.0	Ų	Jpto 250 mg/dl	Ldl Hdl Ratio:			Upto 5.0 mg/dl
LDL:		1	jpto 150 mg/dl				
<b>Biochemes</b>	tory						
SGOT:	Not Done	8	40 u/ml	S.Creatinine :			0.5 - 1.5 mg/dl
SGPT:	Not Done	5	- 35 u/ml	BUN:		mg/dl	X-Ray: Not Done:
Jrine Exam	ination						
est Description	Act	ual Read	ting <sup>*</sup>	Test Description	)	Actual	Reading
otour:	Yello	w	-	Puscells:		Absent	
roteins:	Abse			Epithelial Cells		Absent	
Irine Sugar:	Abse			Reaction:		Acidic	
(etone:	Abse	nţ		Rbc's:		Absent	
Audiometry	Left Ear		Wol		Right Ea	0	₩ni
ADVISE:- N	il					<u> </u>	मंहे
ree From Tuber	C				3	डॉ सुर्गकांत	a Hat be-

Free From Tuberculosis Skin and Other Communicable or Contagious Piecasentes

This Employee is Fit For Job

# MUNDHE CHILDREN HOSPITAL

Dr. S. B. Mundhe

M.B.B.S., M.D., D.C.H., A.F.L.H.

Reg. No. 66488

Critical Care & Occupational Health Centre

Near Bus Stand, Jay Nagar, In Front of Dube-Petrol Pump, Ambajogai Road, PARLI-VALJNATH, Dist. Beed. Ph.:223184, 223584

Screeing Test:

Sr: No. 127

Name : Date:

AUDIOGRAM

120 13 Date: 95/ 1

Occapation:

LEFT EAR

Age: 22

Protound [etutoN PSIM нервию тнеезного и оесівеїв 100 06 20 8 64 20 8 9 20 8000 4000 2000 TEST FREQUENCY IN HERTZ RIGHT EAR 2 101 06 801 20 욺 20 8 9

PIPA

HEARING THRESHOLD IN DECIBEIS

Settle

100

06

40 29 99 2

TEST FREQUENCY IN HERTZ

Colour Code Red Blue Unmasked Bone Conduction ↓ below the respective symbols Masked Unmasked Air Conduction OX Masked Add No Response Mode Ear Right Left.

Symbol

Audiofogist

## JREN HOSPITAL

J VAIJNATH

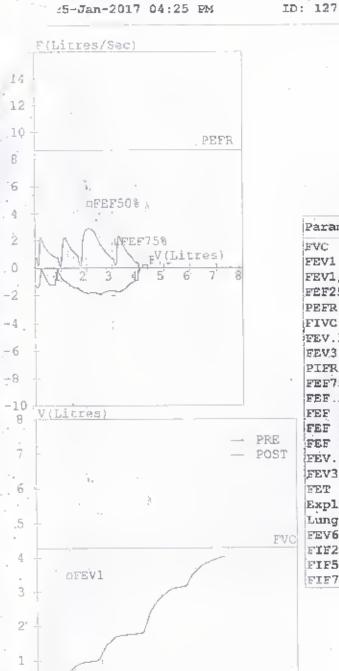
JESH THAWRE DR S B MUNDHE .: BARCELONA 25-Jan-2017 04:25 PM Age : 27 Years Height : 158 Cms Weight : 60 Kgs

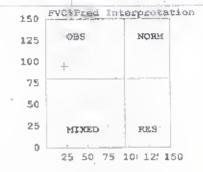
Gender : Male Smoker : No

Eth. Corr: 100









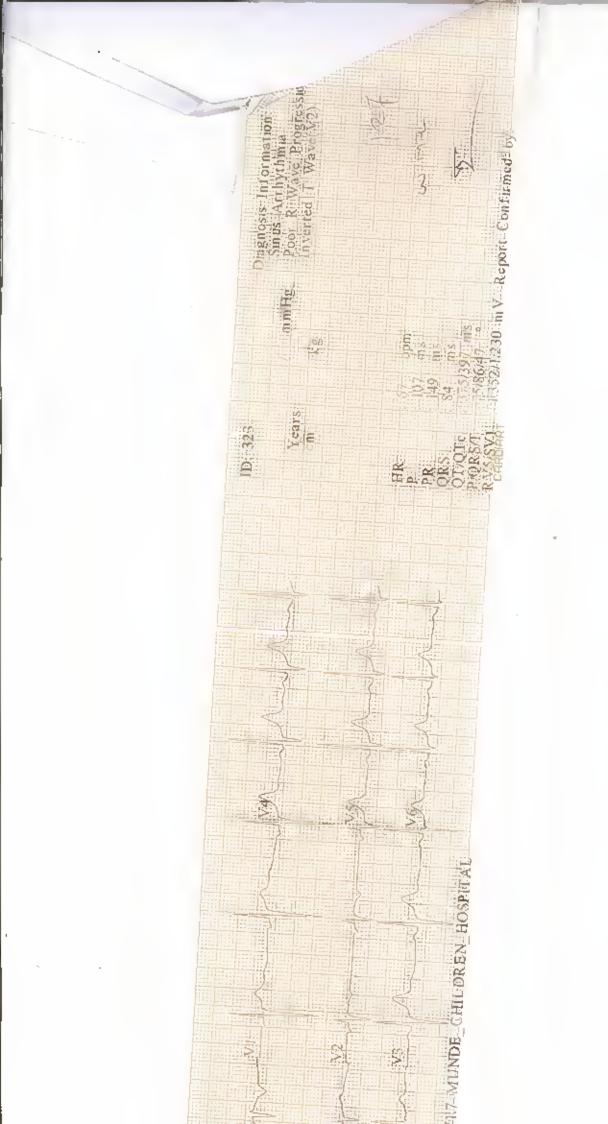
(FEV1/FVC) %Fred improve (FUC Poculte)

		Ş	piromet	IY (FVC	Results	.)	
Parameter		Pred	M.Pre	%Pred	M. Post	%Pred	4Imp
FVC	(L)	04.27	04.03	094			
FEV1	. (E)	03.47	00.73	021			
FEV1/FVC	(%)	81.26	18.11	022			
FEF25-75	(L/s)	03.87	00.89	023			
PEFR ·	(L/s)	08.68	02.86	033			
FIVC	(L)		04.28				
FEV.5	(L)		00.15				
FEV3	(L)		01.78				
PIFR	(L/s)		01.94				
FEF75-85	(L/s)		00.58				
FEF.2-1.2	(L/s)		00,71				
FEF 25%	(L/s)		00.17	÷			
FEF 50%	(L/s)	04.70	02.79	059			
FEF 75%	(L/s)	01.90	00.65	034			
FEV.5/FVC	(8)		03.72				
FEV3/FVC	(8)		44.17				
FET	(Sec)		05.73				
ExplTime	(Sec)		00.08				
Lung Age	(Yrs)	027	048	178			
FEV6	(L)	04.27	04.04	095			
FIF25%	(L/s)		01,76				
FIF50%	(L/s)		01.50				
FIF75%	(L/s)		01.24				

Doctor's Notes SPIROMETRY WITHIN NORMAL LIMITS

> DR S B MUNDHE MBBS MD DCH AFIH

T (Seconds)



Dr. S. B. Mundhe M.B.B.S, M.D, D.C.H, A.F.I.H.

### MEDICAL CHECK-UP REPORT

Phone: Dr. S. B. Mundhe 223184, 22358

Certified Surgeon

( Pre-employment / Periodical Examination )

NSL SUGARS LIMITED UNIT 3 PAWARWADI

Reg No : 66488 Beed, Aurangabad

25-Jan-18 25-Jan-17 Check-up Date

Employee	Name:	PARSH	IAN'	T DIGRISKA	R			Sr No: 189
Employee	Code:	158	De	ept name: WTP				Age: 34 Yrs
Working Sir	nce:	Years	Hei	ght: 169 Cms We	ight: 70 Kgs Ds	sgn:		Sex: Male
Presen	it Com	plaints	Pré	esent Complaints N	lil			
Family His	tory:	Hyperter			hematic Past		Nit	
Habits:		Tobacco		Smoker Alc	oholic History:			
Allergic to	1	NI			M/H and C	D/H: {	AV	
Genera	al Exa	mination	Ge	erieral Appearance:	Healthy			
Pulse:		78	/ mi	BP: 133 /	88 / mm of Hg			
EYE NAD	)			ENT: NAD		Skin:	Nil	
Vision	Near Rig	jht Eye:	N/ 6	Far Right Eye	6/6	With	Without Spects:	Without Spects
VISIOH	Near Let	ft Eye:	N/8	Far Left Eye:	6/6	Colo	ur Vision:	Nermal
System	nic Ex	amınati	on	LFT: WNL		ECG	: WNL	
RS:	MAD			CVS: NAD			GIT: NAD	
CNS:	CNS: NAD			GUS: NAD			MS: NAD	
Patho	logica	l-Exami	natio	in				
Test Des		Actual		Normal Range	Test Description	HT.	Actual	Normal Range
Haemoulo			M: 13	,5 to 18, F : 11.5 to 16.	5 Lymphocytes:	:	30 %	20 % to 40 %
		4000	- 10000 c. mm	Monocytes:		7 %	1 % to 6 %.	
		50 %	1ò 75 %	RBC:		4.9 mil/c.mm	4.06.0 mill/cmm	
Eosinophi		3	0%1	06%	PCV:		44 %	38 % - 55 %:
Basophils		0	0%1	01%	ESR:			M: 0-15 F: 0-20 mm/hr
В	slood G	roup:	0	Positive	Blood Random S	Sugart		Upto 150 mg/dl
Lipid F	-							
Test Des	- managed a	Actual		Normal Range	Test Description	n	Actual	Normal Range
Choleste	rol:			130 - 250 mg/dl	VLDL:		0.0	Upto 35 mg/dl
HDL:		0.0		30 - 70 mg/df	Chol. Hdl Ratio	):		Upto 5.0 mg/dl
Trigleser	rides:	0.0		Upto 250 mg/dl	Ldl Hdl Ratio:			Upto 5.0 mg/dl
LDL:				Upto 150 mg/dl				
Bioche	emest	ory						
SGOT:		Not Done		8 40 u/m!	S.Creatinine :			0.5 - 1.5 mg/dl
SGPT:		Not Done		5 - 35 u/m!	BUN:		mg/dl	X-Ray: Not Done
Urine I	Exami	nation						
Test Desc	ríption	Acti	al Rea	ading	Test Description		Actual	Reading
Colour:		Yellav	v		Puscells:		Absent	
Proteins:		Abser	nt		Epithelial Cells		Absent	
Urine Sug	ar:	Abser	nt:		Reaction:		Acidic	
Ketone:		Abser	nt		Rbc's:		Absent	
Audion	netry	Left Ear		₩nl		Righ	it Ear	Wnl
ADVIS	E:-: Nil						डॉ सर्यं	गंत मंदे 🖘

Free From Tuberculosis Skin and Other Communicable or Contagious Disease: This Employee is Fit For Job

毎 ACS05 SM/2016

# MUNDHE CHILDREN HOSPITAL

Critical Care & Occupational Health Centre

Near Bus Stand, Jay Nagar, In Front of Dube Petrol Pump, Ambajogai Road, PARLI-VAIJNATH, Dist.Beed. Ph.:223184, 223584

Dr. S. B. Mundhe Reg.No.66488 M.B.B.S., M.D., D.C.H., A.F.I.H.

Screeing Test:

RIGHT EAR

Name : Sr. No.

Date:

2 30 40

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elarjaboM:

2 80

S

HEARING THRESHOLD IN DECIBEIS

8

AUDIOGRAM

200 Age: 3C4 Occapation: Date:

LEFT EAR 101 38 40 9 응 8 8 8 PIJM HEARING THRESHOLD IN DECIBEIS

40

20 30

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50 60 70 70

100

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9 9 9 5

Profound

8000

6000

2000

8000

4000

2000

1000

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250.

100

90

80

TEST FREQUENCY IN HERTZ

ASSIR, Y

NCY IN HERTZ

Colour Red Blue Unmasked Bone Conduction slow the respective symbols Masked Jumasked duction

REMARKS BI

Audiologist

# OSPITAL

PEFR

:CH

DIGRESKAR MUNDHE LIONA 2017 05:51 PM

es/Sec)

oFEF50%

ofeF75%

V(Litres)

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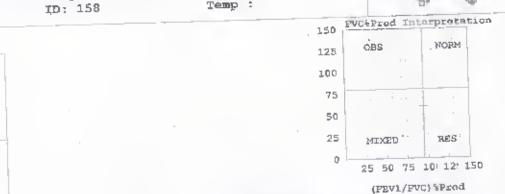
-8

Age : 34 Years Height : 169 Cms Weight : 70.Kgs

Gender : Male Smoker : No Eth. Corr: 100

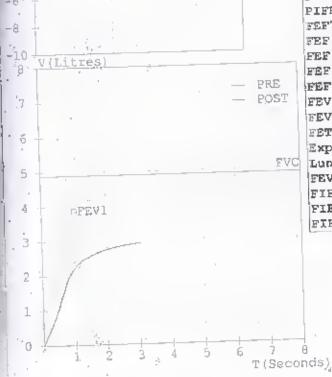
Temp :





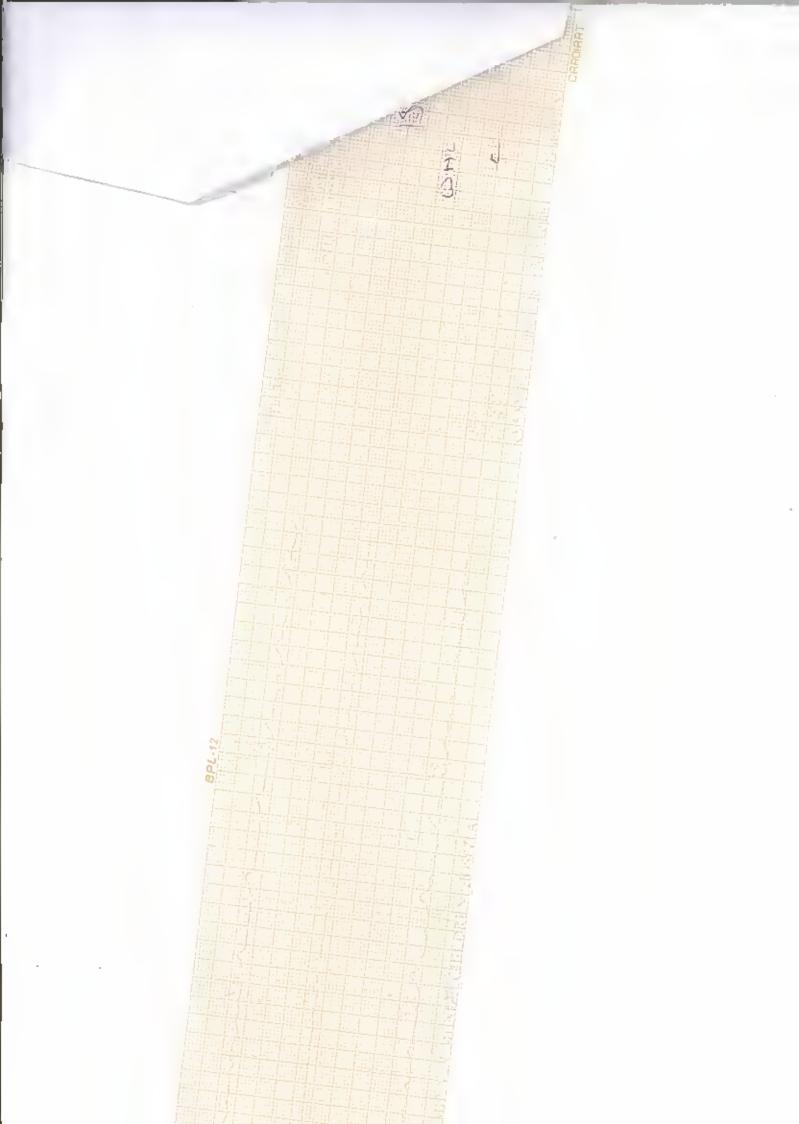
spinometry (FVC Results)

		Sp	iromet)	A (FAC	Kernics		
Parameter		Pred	M.Pre		M.Post	&Pred	dwr.
FVC	(L)	04.91	02.95	060			
	(L)	03.88	02.22	057			
FEV1	(%)	79.02	75.25	095			
EV1/FVC	(L/s)	04.00	02.28	057			
	(L/s)	09.57	03.08	032			
	(L)		03.67				
IVC			01.10				
EV.5	(L)		02,93				
EV3	$(\mathbb{Z})_{\mathbb{Z}}$		01.19				
PIFR	(L/s) (L/s)		00.77				
FEF75-85			02.27				
FEF.2-1.2	(L/s)		02.24				
FEF 25%		04.99	02.98	0.60			
FEF 50%	(L/s)	01.86	01.16	062			
FEF 75%	(L/s)	U1.60	37.29				
FEV.5/FVC			99.32				
EEA3/EAC	(8)		03.22				
FET	(Sec)		00.10				
ExplTime	(Sec)	034	049	144			,
Lung Age	(Yrs)	04.91					
FEV6	(L)		01.02				
FIF25%	(L/s)		01.02				
FIF50%	(L/s)		01.03				
FIF75%	(L/s)		04.03				



Doctor's Notes SPIROMETRY WITHIN NORMAL LIMITS

> DR S B MUNDHE MBBS MD DCH AFIH



# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701

Fax: 24024068 /24023515 Website: http://mpcb.gov.in E-mail: mpcb@vsnl.net



Kalpataru Point, 2nd - 4th Floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E) Mumbai - 400 022

Red/LSI

Date: 30/ 12 /2016.

Consent No: Format 1.0/BO/CAC-CELL/EIC No. UAN No. 0000009532 /R/CAC- 1612001028

M/s. NSL Sugar Ltd., Unit - III

(Formerly known as Jay Mahesh Sugar Industries Ltd.)

Gut No. 85/86, Pawarwadi, Tal. Majalgaon, Dist. Beed.

Subject

: Renewal of Consent to Operate of 7000 TCD Sugar & 30 MW Co-generation unit

under RED category.

Ref

1. Consent to operate granted by the Board vide no. BO/CAC-CELL/EIC/AD-17177-15/R/CAC-14594 dtd 19.11.2015.

2. Minutes of CAC meeting held on 16.09.2016.

Your application: UAN No. 0000009532.

Dated: 02/07/2016.

For: Renewal of Consent to Operate of 7000 TCD Sugar & 30 MW Co-generation unit under RED category under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (M, H & T M) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent is granted for a period from 01.08.2016 to 31.07.2017. 1.
- 2. The actual total investment of the industry is Rs. 350.05 Cr. (As per C. A. Certificate submitted by industry)

The Consent is valid for the manufacture of -3.

Sr. No.	Product / By-Product Name	Maximum Quantity in MT/M
+1 -	Sugar	23940
2 .	Molasses	9450
3	Pressmud	7350
4	Bagasse	58800
5	Electric Power (Cogeneration)	30 MW

(The cane crushing Capacity of Sugar Industry shall not exceed 7000 TCD)

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent

Sr.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	581 (Sugar 311 + Co-gen 270)	As per Schedule -I	270 CMD 100% recycle & 311 CMD on land for irrigation
2.	Domestic effluent	30	As per Schedule -I	On land for irrigation

Conditions under Air (P& CP) Act, 1981 for air emissions: 5.

Sr.	Description of stack / source	Number of	Standards to be achieved
no.	Boilers (20 TPH; 20 TPH & 135 TPH)	1	As per Schedule – II
1.	DG Set 1250 KVA	1	As per Schedule – II
2.	DG Set 750 KVA	1	As per Schedule – II
3.	DG Set 625 KVA	1	As per Schedule – II
4.	DG Set 023 KVA  DG Set 250 KVA	1	As per Schedule – II
5.	DG Set 250 KVA	1	

6. Conditions under Hazardous & Other Wastes (M, H & T M) Rules, 2016 for treatment and

disposal of hazardous waste: Category Quantity Disposal Type of Waste Sr. No. Reuse in own Litrs./M 100 5.1 Used /Spent Oil boiler as fuel 1

7. Non-Hazardous Solid Wastes:

7. Non-Hazardous Solid Wastes: Sr. No. Type of Waste Quantity UOM Treatment Disposal							
<b>Sr. No.</b> 1.	Type of Waste Fly/Boiler Ash	14.0	MT/D	-	Landfill/Sale to Bricks manufacturers and used for compost production.		
2.	Sludge from waste water treatment	3.0	MT/D	1974	Use as manure		

- 8. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- 9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
- 10. Industry shall operate online monitoring system which is installed as per the Directions of CPCB and shall connect/upload the online monitoring data at MPCB and CPCB server.

For and on behalf of the Maharashtra Pollution Control Board

> (Dr. P. Anbalagan, IAS) Member Secretary

Received Consent fee of -

Received	Consent fee of –		and the second second	Drawn On
Sr. No.	Amount (Rs.)	DR. No.	11.07.2016	SBI Bank
11	Rs. 7,01,140/-	0180879	20.10.2016	SBI Bank
2	Rs. 15,000/-	112874	20.10.2010	

Copy to:

- Regional Officer MPCB Aurangabad He is directed to forfeit BG of Rs. 3 Lakh out of Rs. 10 Lakh submitted towards O & M of pollution control system is to be forfeited as JVS results are exceeding the Consented limit.
- Sub -Regional Officer Jalna, MPCB, He is directed to ensure the compliance of the 2. consent conditions.
- Chief Accounts Officer, MPCB, Mumbai. 3.
- CC/CAC desk- for record & website updation purposes. 4.

### Schedule-I

### Terms & Conditions for compliance of Water Pollution Control I)

- As per your application, you have provided Effluent Treatment Plant with design A] 1) Capacity 1400 CMD.
  - The Applicant shall operate the effluent treatment plant (ETP) to treat the trade B effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr.	Parameters	Standards prescribed by Board				
No.		Limiting Concentration in mg/l, except for pH				
01	pH	5.5-9.0				
02	Oil & Grease	10				
03	BOD (3 days 27oC)	100				
04	Sulphate	1000				
05	Suspended Solids	100				
06	COD	250				
07	Chloride	600				
08	Total Dissolved Solids	2100				

- The treated effluent 311 CMD generated from Sugar unit shall be disposed on land for irrigation on 153 acres of own land /as per the bilateral agreement with farmers. In no C1 any case treated/untreated effluent shall find its way outside the factory premises directly or indirectly.
- Trade effluent of 270 CMD generated from Co-gen shall be 100% recycle in process. D
- CREP conditions for Sugar Factory  $\mathbf{E}$ 
  - Operation of ETP shall be started at least one month before starting of cane crushing to achieve desired MLSS. So as to meet prescribed standards from day one the operation of mill.
  - Waste water generation shall be maintained as 100 liters per ton of cane ii. crushed.
  - Industry shall achieve zero discharge into in land surface water bodies. iii.
  - 15 days storage capacity tank shall be provided for treated effluent to take care of no demand for irrigation.
- Industry shall maintain properly the arrangement provided for covering the effluent Fl collection system and to avoid the ingress of Bagasse other material.
- The unit shall operate ETP even after completion of the crushing season so that any effluent generated during washing & maintenance is discharged after proper G treatment.
- The unit shall optimize water use in industrial process & maintain records of Hwater consumption & waste water generation.
- As per your consent application, for the 30 CMD sewage generation you have A 2) provided septic tank & soak pit for the treatment of sewage.
  - The Applicant shall operate the sewage treatment system to treat the sewage so as Bl to achieve the following standards. mg/1.
    - 100 Not to exceed Suspended Solids (1) mg/1. 100 Not to exceed BOD 3 days 27°C (2)
  - The treated sewage shall be disposed on land for gardening/irrigation. CI

MM

- The industry shall have bilateral agreement with the farmers on whose land the treated effluent is used for irrigation purposes and a copy of the agreements with validity shall be submitted to the Regional/Sub-Regional Office of the Board.
- The industry shall create Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.

# 5) CONDITIONS FOR MOLASSES STORAGE:

- (i) The molasses shall be properly collected and stored in steel tanks which shall be leak proof. At no stage of handling of molasses, there shall be leakage or spillage.
- (ii) The capacity of tanks for storage of molasses shall be such that it will take care of bumper production of sugar, non-lifting of molasses etc.
- (iii) All the area on which molasses are stored and handled should be provided with drain for diverting the spills to the treatment plant/ molasses tank. Suitable arrangements for accidental discharges of molasses from the tanks shall be provided to contain the same within factory premises.
- (iv) Destruction of molasses and its disposal shall not be done without specific permission in writing from the authorized officer of the Board. Intimation of intention to destroy or dispose of the molasses shall be given to the Board atleast 15 (fifteen) days in advance by registered post under intimation to the Sub-Regional officer and Regional officer of the Board under whose jurisdiction the factory is situated.
- (v) The storage tanks shall be kept in good conditions all the year round with adequate maintenance. The tanks size and capacity per cm, height, total capacity in tonnes shall be displayed prominently near /on the tank.
- (vi) The above conditions shall be in addition to and not in derogation of the provisions contained in the "Bombay Molasses Rules, 1955" and "Maharashtra Molasses Storage and Supply Regulation, 1965".
- The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines if applicable.

# II) Conditions under Water (Prevention & Control of Pollution) CESS Act, 1977 as amended

The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Purpose for water consumed	Water consumption quantity (CMD)	
Industrial Cooling, boiler feed etc.,	260	
	50	
Processing whereby water gets polluted & pollutants	835	
are easily hiodegradable		
Processing whereby water gets polluted & pollutants		

### Schedule-II

# Terms & conditions for compliance of Air Pollution Control

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) to observe the following fuel pattern-

Sr. No.	Stack Attached to	APC System	Height in meter	Type of Fuel	Quantity	S %	SO <sub>2</sub> Kg/ D
1.	Boiler (135 TPH)						
2.	Boiler (20 TPH) (Standby)	ESP	72	Bagasse	1449 MT/Day	0.2 %	5796
3.	Boiler (20 TPH) (Standby)						<u> </u>
4.	DG Set 1250 KVA	Acoustic enclosure	7.0	HSD	2.0 KL/D	1 %	40.0
5.	DG Set 750 KVA	Acoustic enclosure	6.0	HSD	1.7 KL/D	1 %	34.0
6.	DG Set 625 KVA	Acoustic enclosure	5.0	HSD	1.4·KL/D	1 %	28.0
7.	DG Set 250 KVA	Acoustic enclosure	5.0	HSD	0.7 KL/D	1 %	14.0

- 2. The Applicant shall provide ESP/ Bag filter/ Wet scrubber to the Bagasse fired boiler and Dust Collector to Sugar bagging section as an Air Pollution control equipments OR as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.
- 3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

	-	-
Particulate matter	Not to exceed	$150 \text{ mg/Nm}^3$

- 4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- 5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

# Schedule-III Details of Bank Guarantees

# **BG** History

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Amount of BG forfeited from the imposed BG	Purpose of BG forfeiture
1	C to R	Rs. 10.0 Lakh	Rs. 3.0 Lakh	<ul> <li>As JVS results of trade effluent are exceeding the Consented limits.</li> </ul>

# **NEW BG**

Sr.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
	To be O & M for extended consented	O & M for achieving consented standards of Effluent.	24 01 2017	20 11 2017		
2	C to R	C to R Rs. 6.0  Lakh  (Top up	Within 15 days.	O & M for achieving consented standards of Stack emission,	31.07.2017	30.11.2017

# Schedule-IV General Conditions

- The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- Industry should monitor effluent quality, stack emissions and ambient air quality monthly.
- The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for 3) monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the H&OW (MH&TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- The industry should comply with the Hazardous & Other Wastes (M, H & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous & Other Wastes (M, H & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) The applicant shall make an application for renewal of the consent before the date of the expiry of the consent.
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 16) Conditions for D.G. Set
- Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting

the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.

Industry should make efforts to bring down noise level due to DG set, outside industrial

premises, within ambient noise requirements by proper sitting and control measures.

Installation of DG Set must be strictly in compliance with recommendations of DG Set d)

A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.

D.G. Set shall be operated only in case of power failure.

- The applicant should not cause any nuisance in the surrounding area due to operation of D.G. f) g)
- The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.

17) The industry should not cause any nuisance in surrounding area.

18) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

19) The applicant shall maintain good housekeeping.

20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.

21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary

permissions from civic authorities for disposal of solid waste.

22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.

23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain

clean and safe environment in and around the factory premises.

24) The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can download from MPCB official site).

25) The industry shall submit official e-mail address and any change will be duly informed to the

26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

27) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.

28) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of

the operation thereof.

# ANNEXURE -4

