

L&T Special Steels and Heavy Forgings Private Limited Hazira Manufacturing Complex Surat - 394 510, Gujarat, INDIA Tel: +91 261 220 3200 Fax: +91 261 220 3300 vww.Ltshf.com

Ref: LTSSHF/HZMC/ECCR/17-18/02

Date: 11.11.2017

To, Regional Office (West), Ministry of Environment & Forests, Link Road No. 3, E – 5, Arera Colony, Bhopal – 462 016, M.P.

Ref: Environment Clearance No. F. No. J-11011/193/2009-IA-II (I), Dtd. 20th October 2009, Amendment Dtd. 23rd May 2012 & 23rd November 2015

Subject: Compliance report of Environment Clearance issued by MoEF for the period of April 2017 – September 2017.

Dear Sir,

With reference to above referred subject, we would like to submit hereby our compliance report for Environment Clearance, gist of the Clearances / Permissions are briefly mentioned below.

- Environment Clearance (EC) from Ministry of Environment and Forest, Dtd. 20-10-2009. (Annexure-10)
- No Objection Certificate (Consent to Establish) from Gujarat Pollution Control Board (GPCB), No. GPCB/CE/SRT-2129/49334 Dtd. 20-04-2010. (Annexure-11)
- CTO (Consent to Operate) from GPCB, No. AWH-87212, Dtd. 20-07-2017. (Annexure-12)
- Amended Environment Clearance from MoEF, Dtd. 23-05-2012, Dtd. 09-04-2013 and 23-11-2015. (Annexure-10)
- Amended CTO from GPCB, Dtd. 03-03-2014. (Annexure-12)

Compliance report for above mentioned EC is enclosed here with. Hope the above mentioned status report is in line with your requirement.

Thanking you, For L&T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.

69 actur, Authorized Signatory Encl: a/a + CD (Soft Copy)

Copy to:

- 1. The Regional Office, Gujarat Pollution Control Board, Regional Office, 338, Belgium Square, Opp. Linear Bus Stand, Ring Road, Surat, Gujarat.
- 2. The Zonal Office, Central Pollution Control Board, Parivesh Bhavan, Opp. VMC Ward office No. 10, Subhanpura, Vadodara ~ 390 023. Phone No. 0265 2392603

Registered Office: L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001 INDIA CIN: U27109MH2009PTC193699

L&T Special Steels and Heavy Forgings Pvt. Ltd. is a subsidiary of Larsen & Toubro Limited

L&T Special Steels and Heavy Forgings Pvt. Ltd., Hazira, Surat. 6 Monthly EC Compliance Report

Ca	ompliance Report for Environment Dtd.	Clearance (F. No. J-11011/193/2009-IA-II (I)), 20 th October 2009			
		Apr 2017 – Sept 2017			
No	Condition	Status			
1.	Products:				
±.	Forgings : 60,000 MTPA	Total production during Apr 17 – Sep' 17			
		1771,613 MT			
	Steel Ingots, Castings & Liquid Metal	2103.64 MT			
2	: 80,000 MTPA				
2.	Provision of fume extraction system with bag filters to control particulate emissions and low NO _x burners to control the NO _x emissions.	provided. Low NO _x burners are provided for R			
		 Gist of the stack analysis results are mentioned below. (Average value during the period Apr 17 – Sep' 17): 			
		Fume RH			
		Parameter Limit Extraction			
		System (250 8 (250 (400 300 MT) MT) (400			
		Particulate 40.0 11.4 12.6 10 10 mg/Nm ³ .			
		NOx, 50.0 14.8 11.8 7.5 8.0			
		*BDL (Below Detection Limit) = 10 mg/Nm ³			
3.	Total raw water requirement will be 8,900 KLD. The waste water from the blow down will be treated in ETP and recycled/reused in the process. The RO Reject will be evaporated.	101093.7 KL (Daily average - 561.6 KLD)			
	Specific Condition				
4.	Only natural gas will be used as fuel	Complied. All re heating / heat treatment furnaces			
	to reduce particulate emissions.	 Complied. All re heating / heat treatment furnaces and boilers are operating on Natural gas as fuel. Analysis report of stack emission attached (Annexure-1). 			
Į.	• •	Quantity of Natural Gas consumed during Apr 17 – Sep' 17: 72,79,102 Nm3			
		 Gist of the stack analysis results are mentioned below. (Average value during the period Apr 17 – Sep' 17): 			
		Parameter Extraction Rth Fumace HT-Fumace Parameter Extraction (250 & System (400 & MT)			
		Pardculate 40 11.4 12.6 10 10 150 20 mg/nm3 1<			

5.	Efforts shall be made to reduce RSPM levels in the ambient air. Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration of SPM are anticipated in consultation with the GSPCB. Data on ambient air, stack and fugitive emissions shall be submitted to the Ministry's Regional Office at Bhopal, GPCB and CPCB.	 Complied. Effective Environment Management System is installed for Air Pollution Control. We are monitoring Ambient Air Quality at 4 stations i.e. one in Downwind direction, one in upwind direction and two as reference points. Ambient Air Quality Monitoring reports are enclosed here with <i>(Annexure-2)</i>. Results of 4 nos. of Ambient air quality monitoring station's data (Average value during the period Apr 17 – Sep' 17) are mentioned below: AAQM PMig, PM25, SO2, NOx, Jug/m³ µg/m³ µg/m³
		Limit 100 60 80 80 I 74.91 39.78 16.88 34.15 II 73.20 34.45 18.16 33.16 III 83.57 41.91 17.65 41.85 IV. 77.47 38.05 15.13 33.18
6.	On line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided. The emissions of particulate matter from various process units shall confirm standards prescribed by the concerned authorities from time to time.	Complied. Environment Monitoring Program through MoEF approved laboratory covers the monitoring of Stack and Ambient Air Quality on regular basis. Reports are attached herewith (Annexure-1,2) . Online monitoring system, for Ambient Air Quality Monitoring (AAQM) and Continuous Emission Monitoring System (CEMS) for stacks, are installed.
7.	Particulate emissions from the furnaces shall not exceed 10 mg/NM ³ . Fumes extraction system and bag filter followed by adequately designed process vents shall be provided to arc furnace, ladle furnace, heating furnace vacuum treatment plant etc. to achieve the particulate emission below 40 mg/Nm ³ . Emissions from the furnaces shall be controlled by installation of hood over the melting pot with proper ventilation system. The duct shall be connected to a vent along with suitable exhaust fans to vent out fumes of melting pot and shall be let out through the stack of adequate height. Low NO _x	 Emission standard for Fume Extraction System (FES) noted as 40 mg/Nm³. (Vide Our letter no. L&T/HZMC/ENV/EC/2009/02 Dtd. 07th Sept. 2009). Adequate Fume Extraction System is considered to entrap primary and secondary emissions and to meet with the Norms. Low NO_x burners are installed for NG fired heating furnaces i.e. Re Heating (RH) and Heat Treatment (HT) furnaces, with adequate stack height. Analysis reports for FES, RH & HT Furnace and Boiler are attached herewith. (Annexure-1). Average Particulate Matter (PM) level for Fume Extraction System (FES), Re Heating (RH) and Heat Treatment (HT) Furnace are mentioned below.

	burners shall be provided for control				RH .		AN VERINE
	of NO _x emissions,	Parameter	Limit	Fume Extraction	Furnace	HT Fu	<u>interio, a State</u> rio,
				System	(250 & 300 MT)	(250 MT)	(40D MT)
		Particulate Matter, mg/nm3	40.0	11,4	12.6	10	10
		NOx, ppm	50.0	14.8	11.8	. 7.5	8.0
			*BDL (Below	Detection L	imit) = 10 n	ng/Nm ^a	
8.	The company shall monitor the raw and treated wastewater quality for trace metals and air quality at source and ambient for PAH, BETX etc including routine parameters and the reports shall be submitted to the Ministry's Regional Office at Bhopal regularly with six monthly compliance reports. The company shall connect the	reports Àir qual monitor 	ed. are attach ity at sour ing) & am iched. (An	ed (Anne rce (Work bient air c	area mor Juality mo	6) . nitoring i nitoring	& Stack
	pollution control equipment to DG set to ensure operation of these equipment during power failure. The company shall also provide interlocking system with the process equipment so that the plant automatically stops in case the pollution load exceeds the guaranteed limits.	Noted.	· · · · ·	· · · ·			
10.	The industry shall ensure that the treated effluent and stack emissions in the unit are within the norms stipulated under the EPA rules or GPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipments adopted in the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Analysis emissio	s report n attached	for treat			l stack
11.	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust suppression and dust extraction systems shall be provided to control fugitive emissions at	The be covered provide plant. R	Confirme t conveyc . Fume E d to entra aw materi ers and in	ors for ra xtraction ap the fu als like fe	System v gitive em rro alloys	vith bag ission fr	filter is om the

	· · ·	
	material handling points. Fugitive emissions shall be controlled by providing closed storages, water sprinkling system, covered belt conveyers, bag filters at transfer points etc. to arrest the suspended particles. Dust suppression system including wet sprinkling system shall be provided at loading and unloading areas to control dust emissions. Data on fugitive emissions shall be regularly monitored and records to be maintained.	 The Environment Monitoring Plan covers the monitoring of fugitive emission from vulnerable sources. Report for work zone monitoring is attached herewith (Annexure-3).
12.	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of practice issued by CPCB shall be followed. The emission standards issued by Ministry in May, 2008 shall be followed.	 Noted & Confirmed. (Annexure-3). Average Fugitive emission, i.e. Dust level at various location within plant are mentioned below: <u>Parameter</u> Limit Electrical Arca Platform / Casting Area <u>Dust,</u> 2000 <u>626.2</u> <u>749.2</u> <u>557.7</u>
13.	Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	Noted.
14.	Total water requirement from existing Singanpore water supply pipeline from River Tapi shall not exceed 9,100 m ³ /day. All the waste water generated from the process shall be treated in the effluent treatment plant (ETP) followed by Reverse Osmosis (RO) plant and recycled and reused in the process and/or used for dust suppression, green belt development and for various activities at the project site. No effluent shall be discharged outside the premises. The RO reject shall be utilised for slag cooling to	 Average water consumption, treated water and sewage generation are mentioned below. Particulars Apr 17 - Sep' 17 Raw water 101093.7KL (Daily average - 561.6 KLD) Effluent 4798 KL (Daily avg - 26.6 KLD) Permeate) Treated sewage 10310 KL (Daily avg - 57.3 KLD)
	ensure zero discharge. Zero discharge shall be strictly adopted. Sewage wastewater shall be	and treated sewage attached herewith. (Annexure-

adequately treated in the sewage treatment plant (STP) and conform to the prescribed standards and used for green belt development. 15. Prior permission for the drawl of Complied. 9,100 m³/day water from River Tapi shall be obtained from the concerned department and a copy of the letter shall be submitted to the Regional Office at Bhopal within 3 months of issue of the environment clearance. All the slag or any other toxic 16. Toxic Chemical Leach Potential Test (TCLP) test has been conducted (Annexure-7) for Slag and found substance generated in the process Non-hazardous in nature as per Hazardous Waste due to use of raw materials like ferro Rule. Slag is being used for landfilling/as building allovs, ferro chrome. ferro material/other suitable application. manganese, ferro molybdenum, nickel, ferro silicon, ferro titanium Permission of GPCB approved CHWTSDF has been and ferro vanadium etc. shall be obtained for the disposal of hazardous wastes. used for land filling inside the plant (Annexure-8). or used as building material only after passing through Toxic Chemical Leachability Potential (TCLP) test. Toxic slag shall be disposed in secured landfill as per CPCB quidelines. Otherwise, hazardous substances shall be recovered from the slag and output waste shall be disposed in secured landfill or common hazardous waste treatment, storage and disposal facility (CHWTSDF) as per CPCB guidelines and authorization shall be obtained from the concerned Competent Authority and renewed time to time. 17. All the metal scrap, Iron oxide and Complied. dust shall be recycled/reused in electric arc furnace. All the other solid/hazardous waste generated including rejects from Reverse Osmosis (RO) plant shall be properly utilised or disposed off in environment friendly manner. The domestic waste including sewage sludge shall be treated biologically and used as manure for green belt. Used/spent oil shall be sold to authorized recyclers as per the

18.	Hazardous Waste (Management & Handling) Rules 1989 and subsequent amendments.						
18.	-,						
18.	subsequent amendments						
18.							
			Noted & Confirmed				
	submitted to reduce solid waste, its	Actio	on Plan	Target		Responsit	oility
	proper utilization and disposal.	Utili:		On Going		Productio	
		Meta	ai Scrap erated within			Dept. / Si	tores
			t as input raw				•
		mat	erial				
			eving maximum	On Going – Steel Melting	88 % yield of	Productio Dept.	n
			iction of waste	- Otter Melang	· .	Берсі	
			sing of organic		2 MT) Organic	Canteen,	
			te like Canteen te, Paper Wasté,		duced during Q3+Q4) from	Housekee Horticultu	
		Garo	den Waste, STP	these waste		EHS Dept	
		man	ure etc.				
19.	Proper handling, storage, utilization	• P	Noted & Confirm	ned.			
	and disposal of all the solid waste						
	shall be ensured and regular report	• /	Analysis report attached herew	or Slag for 1	CLP study ar	10 ETP SI	uage
	regarding toxic metal content in the		ittachea herew		uie-7).		
	waste material and its composition,	• [Disposal record	from Apr 1	7 - Sep' 17	is menti	oner
	end use of solid / hazardous waste		pelow.	···			
	shall be submitted to the Ministry's				Disposal of	Stock	
	Regional Office at Bhopal, GPCB and		Particulars	Disposal methods	Waste during Apr 17 -	аз ол 31 st	
	CPCB.				Sep',17	Mar'17	
	· · ·			Solid Wa Used for	ste le	Children (S. S. S	
				landfilling or		92	
			Slag	other suitable	1637 Ton	Ton	
				application			
				Hazardous	waste		
				Disposal to BEIL for			
			ETP Sludge (34.3)	Secured	9.83	0.280 Ton	
				landfilling at		100	
				TSDF Given to	· ·		
			Used / Spent Oil	Registered	Nil	3.2	
			(5.1)	recycler		Ton	
			Maintenance				
			waste containing	Disposal to BEIL for	Nil	0.53	
			OI /Waste	incineration		Ton	
			<u>Oil (5.2)</u>	Given to			
	· · · · · ·		Discarded	Registered	0.00	0.42	
			Containers (33.3)	recycler	0.39	Ton	
			Dried left	Disposal to			ł
			over paint	BEIL for	Nil	NI	
			(33.3)	incineration	L		J
20.	Green belt shall be developed in 33		Complied.				_
	% in and around the plant premises		Plot area: 90 A			en Space	3: 3
	to mitigate the effects of fugitive		Acre, Total No. Photograph a	-	or green	belt	are
	emissions all around the plant as per	r - r	norograph c	acached I	or green	Deit	are

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21. A th R P Se p tc 22. Pi st e e	the CPCB guidelines in consultation with DFO.		Sr. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Name of TreesCasurinaPeltophorumPendulaAcacciaChampaAlstoniaBottle palmCycusShampaign palmFicusTravellers palmKaranjKadambaBahuniaTabubia roseaBottle brush	Nos. 2224 976 1557 987 24 663 39 46 36 57 5 398 458 57 52	
tł R P se p tc 22. P st e e			2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Peltophorum Pendula Acaccia Champa Alstonia Bottle palm Cycus Shampaign palm Ficus Travellers palm Karanj Kadamba Bahunia Tabubia rosea	976 1557 987 24 663 39 46 36 57 5 398 458 57	
tł R P se p tc 22. P st e e			3 4 5 6 7 8 9 10 11 12 13 14 15 16	Pendula Acaccia Champa Alstonia Bottle palm Cycus Shampaign palm Ficus Travellers palm Karanj Kadamba Bahunia Tabubia rosea	1557 987 24 663 39 46 36 57 5 398 458 57	
tł R P se p tc 22. P st e e			4 5 6 7 8 9 10 11 12 13 14 15 16	Acaccia Champa Alstonia Bottle palm Cycus Shampaign palm Ficus Travellers palm Karanj Kadamba Bahunia Tabubia rosea	987 24 663 39 46 36 57 5 398 458 57	
tł R P se p tc 22. P st e e			5 6 7 8 9 10 11 12 13 14 15 16	Champa Alstonia Bottle palm Cycus Shampaign palm Ficus Travellers palm Karanj Kadamba Bahunia Tabubia rosea	24 663 39 46 36 57 5 398 458 57	
tł R P se p tc 22. P st e e			6 7 8 9 10 11 12 13 14 15 16	Alstonia Bottle palm Cycus Shampaign palm Ficus Travellers palm Karanj Kadamba Bahunia Tabubia rosea	663 39 46 36 57 5 398 458 57	
tł R P se p tc 22. P st e e			7 8 9 10 11 12 13 14 15 16	Bottle palm Cycus Shampaign palm Ficus Travellers palm Karanj Kadamba Bahunia Tabubia rosea	39 46 36 57 5 398 458 57	
tł R P se p tc 22. P st e e			8 9 10 11 12 13 14 15 16	Cycus Shampaign palm Ficus Travellers palm Karanj Kadamba Bahunia Tabubia rosea	46 36 57 5 398 458 57	
tł R P se p tc 22. P st e e			9 10 11 12 13 14 15 16	Shampaign palm Ficus Travellers palm Karanj Kadamba Bahunia Tabubia rosea	36 57 5 398 458 57	
tł R P se p tc 22. P st e e			10 11 12 13 14 15 16	Ficus Travellers palm Karanj Kadamba Bahunia Tabubia rosea	57 5 398 458 57	
tł R P se p tc 22. P st e e			11 12 13 14 15 16	Travellers palm Karanj Kadamba Bahunia Tabubia rosea	5 398 458 57	
tł R P se p tc 22. P st e e			12 13 14 15 16	Karanj Kadamba Bahunia Tabubia rosea	398 458 57	
tł R P se p tc 22. P st e e			13 14 15 16	Kadamba Bahunia Tabubia rosea	458 57	
tł R P se p tc 22. P st e e			14 15 16	Bahunia Tabubia rosea	57	
tł R P se p tc 22. P st e e			15 16	Tabubia rosea	· · · · · · · · · · · · · · · · · ·	
tł R P se p tc 22. P st e e			16		52	
tł R P se p tc 22. P st e e				NULLE BUILD	10	
tł R P se p tc 22. P st e e					16	
tł R P se p tc 22. P st e e		Γ Γ		Barringtonia	61	,
tł R P se p tc 22. P st e e			18	Sultan champa	46	
tł R P se p tc 22. P st e e	All the recommendations made in			Total	7702	
	the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel sector shall be implemented and progress report shall be submitted to MoEF/CPCB. Proper care shall be taken in structural design to protect against earthquake if the site falls under earthquake zone and implemented during construction phase.	 in case of integrated iron and steel plant. CREP covers the guidelines for integrated iron and steel plant, some of the clauses under CREP may not be applicable in our case. CREP compliance report is attached herewith. (Annexure-9). Noted and complied. Proper care is taken in structural design to protect 				overs some n our with. otect Basic
fc si	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for	 Local workers will be employed for construction as well as operation phase & no housing for construction workers will be required. Other facilities like toilets, STP, drinking water, medical health centre etc. will be provided. Noted & Confirmed. Compliance report of CTO is submitted to GPCB time to time along with Environment 				iction illets, :. will

25.	No further expansion or	Noted.
· .	modifications in the plant shall be	
	carried out without prior approval of	
	the Ministry of Environment and	
	Forests.	
26.	The gaseous emissions from various	Noted and Complied.
	process units shall conform to the	
	load/mass based standards notified	
i	by the Ministry on 19 th May, 1993	· .
	and standards prescribed from time	
	to time. The Gujarat Pollution	
	Control Roard (CDCR) may aposite	
ŀ	Control Board (GPCB) may specify	· .
	more stringent standards for the	
	relevant parameters keeping in view	
	the nature of the industry and its	
	size and location. At no time, the	
	emission levels shall go beyond the	
	prescribed standards. In the event	
	of failure of any pollution control	
	system adopted by the unit, the	
	respective unit shall not be restarted	
	until the control measures are	
	rectified to achieve the desired	
	efficiency.	
27.	At least four ambient air quality	Noted and Complied.
	monitoring stations shall be	
	established in the downward	• Four Nos. of Ambient Air Quality Monitoring Stations
ł	direction as well as where maximum	provided. Reports are attached herewith.
· :	ground level concentration of SPM,	(Annexure-2).
	SO_2 and NO_x are anticipated in	
	consultation with the State Pollution	
	Control Board. Data on ambient air	1
	quality and stack emission shall be	
	regularly submitted to this Ministry	
	including its Regional Office at	
	Bhopal and GPCB/CPCB once in six	
	months.	
28,	Industrial waste water shall be	Noted and Complied. Norms for treated effluent i.e. RO
	properly collected, treated so as to	Permeate & treated sewage are specified in CCA by
	conform to the standards prescribed	SPCB. Report for the same is attached herewith.
	under GSR 422 (E) dated 19th May	(Annexure-5 & 6).
	1993 and 31 st December 1993 or as	
	amended from time to time. The	
	treated wastewater shall be utilized	
	for plantation purpose.	
29.	The overall noise levels in and	Noted. Noise monitoring reports are attached herewith.
	around the plant area shall be kept	(Annexure-4).
	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).	

		·	
30.	rainwater harvesting measures by collecting the rainwater through drains. The water collected shall be connected to raw water pipeline for reuse in the plant. The company shall provide proper drainage system for rainwater to prevent water logging within and in the vicinity of the plant.	 Noted and Complied. Rain Water harvestir by storing the rain water and utilising it purposes within plant. Design Basis: Total Area considered for catchment: 60,0 Avg. rain fall : 900 mm / month Total volume : 48,000 m3 Approx. Collection volume : 1000 m3 Total rain water utilization during Monsoon: 	for reuse 00 m2.
31.	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Noted & Complied. Records are maintaine medical and Periodic medical examination, i.e & 33.	d for Pre e. Form 32
32.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report and during the public hearing meeting. Further the company must undertake socio economic development activities in the	Noted and Complied.	
33.	surrounding village like community development programmes, educational programme, drinking water supply and health care etc. Adequate funds shall be earmarked	Noted and Complied.	
	towards capital cost and recurring cost/annum for the environmental pollution control to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An	 Adequate funds are earmarked towards ca and recurring cost/annum for the envi pollution control. Revenue Expenditure (approx.) for the FY 17+1 	
	implementation schedule for complying with all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry	18 Environmental Monitoring through MoEF Approved Laboratory Environment Audit through Schedule I Auditor	<u>in Lacs</u> 6.0 5.6
-	at Bhopal/CPCB/GPCB. The funds so	ISO 14001 & OHSAS 18001 Surveillance Audit	2.0
	provided shall not be diverted for	Hazardous Waste Management and Disposal	0.8
	any other purposes.	Operation and Maintenance cost of ETP (Based on Power Consumption and consumables)	7.0
		Operation and Maintenance cost of STP (Based on Power Consumption and consumables)	6.8
	· · · · · ·	Operation and Maintenance cost of Organic Waste Converter (Based on Power Consumption and consumables)	0.21
		Operation and Maintenance cost of AAQM & CEMS (Based on Power Consumption and consumables)	4.3
	· · ·	Operation of APCM (Based on Power Consumption)	24.7
34.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any from whom	Noted and Complied. EC Compliance report web site with copy of Certificate.	is kept on

	suggestions/representations, if any, where received while processing the proposal. The clearance letter shall also be put on the web site of the company by proponent.	
35.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Bhopal, the respective Zonal Office of CPCB and the GPCB. The criteria pollutant levels namely SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location	web site with copy of Certificate.
36.	near the main gate of the company in the public domain. The project proponent shall also submit six monthly reports on the status of the compliance of the	 Noted and Complied. Last EC Compliance report (For the period Oct'16 - Mar'17) submitted to
	stipulated environment conditions including results of monitored data (both in hard copies as well as by e- mail) to the Regional Office of MoEF at Bhopal, the respective zonal office of CPCB and GPCB. The Regional office of this Ministry at Bhopal/CPCB/GPCB shall monitor the stipulated conditions.	 MoEF, Regional Office, Bhopal on 11.10.2017 CPCB, Zonal Office, Baroda on 07.10.2017 GPCB, Regional Office, Surat on 25.10.2017
37.	The environmental statement for each financial year ending 31 st March in Form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by email.	• Form V for the year 2016-17 submitted on 17.06.2017
38.	Project authorities shall inform the Regional Offices as well as the Ministry, the date for financial closure and final approval of the project by the concerned authorities	

and the date of commencing the	
land development work.	

	List of Annexures
Annexure No.	Particulars
1	Stack Analysis Reports
2	Ambient Air Quality Monitoring Reports
3	Work Area Monitoring Reports
44	Noise Monitoring Reports
5	Raw Effluent and Treated Effluent
	Analysis Reports
6	Raw Sewage and Treated Sewage Reports
7	Toxic Chemical Leach Potential Study & ETP
	Sludge Analysis Reports
8	Common Hazardous Waste Management
	Facility Membership Certificate
9	CREP Compliance Report
•	Environment Clearance from MoEF, Dtd. 20-
10	10-2009 and Amendment Dtd. 23-05-2012
-	, 09-04-2013 & 23-11-2015
· · ·	Consent to Establish (CTE) from GPCB No.
11	GPCB/CE/SRT-2129/49334, Dtd. 20-04-2010
	and Amendment Dtd. 03.03.14
	CTO (Consent to Operate) No. AWH-49308
12	from GPCB, Dtd. 05-09-2012 and
· · · · · · · · · · · · · · · · · · ·	Amendment Dtd. 03.03.14
12A	CTO Compliance Report
13	Photographs of Green Belt Area
14	Certificates and Recognitions

Annexure 1:

Stack Analysis Reports

PODECONATORISTRATOR

TEST CERTIFICATE FOR STACK GAS MONITORING

Customer's Name and Ad	dress :	QR/5.10/328 Page: 1 of 1
HAZIRA MANUFA	TEELS AND HEAVY FORGINGS PVT. LTD. CTURING COMPLEX, DIST: SURAT, GUJARAT, E – 394510	Test Report No. : PL/LT 0065 Issue Date : 25/05/2017 Customer's Ref. : W.D. No. FLS001001 DTD 21,07,2016
n shi asini in shi an anni i Shi sa shi usar si shaqari in s	<u>STACK DETAILS & RESULT</u>	
Location of Sampling	FES Stack Sampling Proc	edure : As Per Table
Date of Sampling	12/05/2017 Protocol (purp	ose) : Stack Gas Monitoring
Sampling By	Pollucon Laboratories Pvt. Ltd. Time of Sampl	ing in His: 11:30
Sample Receipt Date	13/05/2017 Lab ID	: LT/1705/03 [A - C]
Date of Starting of Test :	13/05/2017 Date of Compl	
Fuel	Natural Gas	

SR. TEST PARAMETER **GPCB** UNIT RESULTS **TEST / SAMPLING METHOL** NO. NORM 1 Particulate Matter ma/Nm³ 7.52 150 IS:11255 (Part-1):1985 2 Sulfur dioxide (as SO₂) 1.86 ppm : 100 IS:11255 (Part-II):1985 3 Oxides of Nitrogen (as NO_x) 12.52 ppm 50 IS:11255 (Part-VII):2005

Velocity

Ecotech instrument stack sampler ESS 100, Sl. No.13-1-71 & Date: 28.04.2017

35 meter

BOL+, Below Detection Limit, Minimum Detection Limit, Particulate Matter: 10 mg/Nm* ** Details provided by customer. Results on 11 % O; Correction when Oxygen is greater than 11 % and 12 % CO; Correction when CO; is less than 12 %

H.T. Shah Lab Manager

Stack Height#

Instrument Used &

Calibration Due Date

Dr. Arun Bajpai Lab Manager (Q)

7.07 m/sec

Note: This report is subject to terms & conditions mentioned overleaf.

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 GPCB approved
 ISO 14001 2004
 OMSAS 16001 2007
 ISO 8001 2008
 Sec. 12 of Environmental (Protection) Act-1986
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Head Office : 544, Belgium Tower, Ring Road, Opp. Linear Bus Sland, Surat-395003. (Guj.) Tele : (0261) 2455751, 2601224, 2601106 Branch Office : Piol No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle; Udhana Magdalla Road, Surat-3905007 Iele : (0251) 2635/50, 2635751 E-mail : pollucon@gmail.com, Websile : www.pollucontab.com



TEST CERTIFICATE FOR STACK GAS MONITORING

Customer's Name and Address :	QR/5.10/32B
	Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD. HAZIRA MANUFACTURING COMPLEX,	Test Report No. : PL/LT 0067
POST: BHATHA, DIST: SURAT, GUJARAT	Issue Date : 25/05/2017
INDIA. PIN CODE - 394510.	Customer's Ref. : W.0. No. FL5001001

STACK DETAILS & RESULT

Location of Sampling	HT Furnace 250	Sampling Procedure :	As Per Table
Date of Sampling	12/05/2017	Protocol (purpose)	Stack Gas Monitoring
Sampling By	Pollucon Laboratories Pvt. Ltd.		13:00
Sample Receipt Date ;	13/05/2017	Lab ID	LT/1705/05 [A - C]
Date of Starting of Test :	13/05/2017	Stack Temperature	225 °C
Fuel#	Natural Gas	Velocity	8.28 m/sec
Date of Completion : Instrument Used &	17/05/2017	Stack Helght,	35 meter
Callbration Due Date	Ecotech instrument stack s	ampler ESS 100,Sl.No.13-1-	71 & Date: 28,04,2017

SR. NO.	TEST PARAMETER	UNIT	RESULTS		TEST / SAMPLING METHOD
1	Particulate Matter	.mg/Nm ³	6.54	150	IS:11255 (Part-1);1985
2	Sulfur dioxide (as SO ₂)	ppm	1.12	100	IS:11255 (Part-II):1985
3 BDL*: 8	Oxides of Nitrogen (as NO _x) elow Detection Limit, Minimum Detection Limit, Pa	ppm	15.31	50	15:11255 (Part-VII):2005

Details provided by customer. Results on 11 % Or Correction when Oxygen is greater than 11 %

H.T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST CERTIFICATE FOR STACK GAS MONITORING

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Customer's	Name and Address :	×
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M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD. HAZIRA MANUFACTURING COMPLEX,	Test Report No. 1 PL/LT 0066
POST: BHATHA, DIST: SURAT, GUJARAT.	Issue Date : 25/05/2017
INDIA. PIN CODE – 394510.	Customer's Ref. : W.O: No. FLS001001 DTD 21.07.2016

STACK DETAILS & RESULT

Location of Sampling	RH Furnace Common stack	Sampling Procedure :	As Per Table
Date of Sampling :	12/05/2017	Protocol (purpose)	Stack Gas Monitoring
Sampling By	Pollucon Laboratories Pvt. Ltd		12:15
Sample Receipt Date	13/05/2017	Lab ID	LT/1705/04 [A - C]
Date of Starting of Test :		Date of Completion	17/05/2017
Fuel	Natural Gas	Stack Temperature	280 °C
Stack Height.	35 meter	Velocity	8.67 m/sec
Instrument Used & Calibration Due Date	Ecolech instrument stack s	ampler ESS 100,Sl.No.13-1	

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SR, NO.	TEST PARAMETER	UNIT	RESULTS		TEST / SAMPLING METHOD
1	Particulate Matter	mg/Nm³	22,35	150	IS:11255 (Part-1):1985
	Sulfur dioxide (as SO ₂)	ppm	1.40	- 100	IS:11255 (Part-II):1985
_	Oxides of Nitrogen (as NO _x)	ррт	18.45	50	IS:11255 (Part-VII):2005

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BDL*: Below Detection Limit, Minimum Detection Limit, Particulate Marter: 10 mg/Nm*, Sulfur Dioxede (as SO2): 1.52 pent *Retails provided by customer: Results on 11 % O, Correttion when Oxygen is greater than 11 %

H.T. Shah

Lab Manager

Dr. Arun Bajpai Lab Manager (O)

Note: This report is subject to terms & conditions mentioned overleaf.

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 ◆ GPCB apprved
 ◆ ISO 14601 : 2004
 ◆ OHSAS 15001 : 2007
 ◆ ISO 9001 : 2008
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TEST CERTIFICATE FOR STACK GAS MONITORING

	· ·	·	QR/3.10/320 ·
Customer's Name and Address :		and the second sec	Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FO	· · ·	D. Test Report No. :	PL/LT 0077
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARA		Issue Date :	06/07/2017
INDIA. PIN CODE - 394510		Customer's Ref. :	W.O. No. FLS001001 DTD 21.07.2016

STACK DETAILS & RESULT

Location of Sampling		Boiler Stack	Sampling Procedure :	As Per Table
Date of Sampling		23/06/2017		Stack Gas Monitoring
Sampling By	*	Pollucon Laboratories Pvt. Ltd.	Time of Sampling in Hrs:	11:45
Sample Receipt Date		24/06/2017	Lab ID ;	LT/1706/03 [A - C]
Date of Starting of Test		24/06/2017	Date of Completion :	29/06/2017
Fuel#	:	Natural Gas	Stack Temperature	85 °C
Stack Height#	:	35 meter	Velocity :	7.712 m/sec
Instrument Used & Calibration Due Date	2	Ecotech instrument stack sa	ampler ESS 100,SI.No.13-1	l-71 & Date: 28.04.2018

SR. NO.	TEST PARAMETER	UNIT	RESULTS	GPCB NORM ^{**}	TEST / SAMPLING METHOD
1	Particulate Matter	mg/Nm ³	15.77	150	IS:11255 (Part-I):1985
2	Sulfur dioxide (as SO ₂)	ppm	2,30	100	IS:11255 (Part-II):1985
3	Oxides of Nitrogen (as NO _x)	ppm	15.04	50	IS:11255 (Part-VII):2005

BDL*: Below Detection Limit, Minimum Detection Limit, Particulate Matter: 10 mg/Nm³

**Details provided by customer. Results on 11 % O2 Correction when Oxygen is greater than and 12 % CO₂ Correction when CO₂ is less than 12 %

H.T. Shah Lab Manager N POLIZZA (CERCO) -

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 GPCB apprved schedule II auditor

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TEST CERTIFICATE FOR STACK GAS MONITORING

	Customer's Name and Address :		QK/5.10/32B
-	M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No. :	Page: 1 of 1
-	HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,		06/07/2017
	INDIA. PIN CODE - 394510.	Customer's Ref. :	W.O. No. FLS001001

STACK DETAILS & RESULT

Location of Sampling	•	RH Furnace Common stack	Sampling Procedure	ė.	As Per Table
Date of Sampling		23/06/2017	Protocol (purpose)	:	Stack Gas Monitoring
Sampling By	:	Pollucon Laboratories Pvt. Ltd.			11:00
Sample Receipt Date		24/06/2017	Lab ID	:	LT/1706/04 [A - C]
Date of Starting of Test	ľ	24/06/2017	Date of Completion	1	29/06/2017
Fuel#		Natural Gas	Stack Temperature		270 °C
Stack Height ₅	8	35 meter	Velocity		7.87 m/sec
Instrument Used & Calibration Due Date	8	Ecotech instrument stack sa		1-2	

SR. GPCB **TEST PARAMETER** UNIT RESULTS NO. TEST / SAMPLING METHOD NORMS# 1 Particulate Matter mg/Nm³ 8.22 150 IS:11255 (Part-I):1985 2 Sulfur dioxide (as SO₂) ppm 3.17 100 IS:11255 (Part-II):1985 3 Oxides of Nitrogen (as NO_x) ppm 8.68 50 IS:11255 (Part-VII):2005

BDL*: Below Detection Limit, Minimum Detection Limit, Particulate Matter: 10 mg/Nm3, Sulfur Dioxide (as SO2): 1.52 ppm *Details provided by customer. Results on 11 % O2 Correction when Oxygen is greater than 11 %

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Lab Manager

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POLLUCON LABORATORIES PVT. LTD

TEST CERTIFICATE FOR STACK GAS MONITORING

Customer's Name and Address :		• • •	QR/5,10/32B
			Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAV HAZIRA MANUFACTURING COMPL	FY	Test Report No. :	PL/LT 0079
POST: BHATHA, DIST: SURAT, GUI INDIA. PIN CODE - 394510.	IARAT,	Issue Date :	06/07/2017
)		Customer's Ref. :	W.O. No. FLS001001 DTD 21.07,2015

STACK DETAILS & RESULT

Location of Sampling :	HT Furnace 250	Sampling Procedure	As Per Table
Date of Sampling	23/06/2017	and the second	
Sampling By)		Protocol (purpose)	Stack Gas Monitoring
	Pollucon Laboratories Pvt. Ltc	I. Time of Sampling in Hrs:	11:00
Sample Receipt Date	24/06/2017	Lab ID	LT/1706/05 [A - C]
Date of Starting of Test :	24/06/2017	Chaele Tanan	
Fuel#		Stack Temperature	99 °C
	Natural Gas	Velocity	8.08 m/sec
Date of Completion	29/06/2017	Stack Height#	35 meter
Instrument Used &	Echtoph Hilts		
Calibration Due Date	Ecotech instrument stack s	ampler ESS 100,SI.No.13-1	-71 & Date: 28.04.2017

		<u>.</u>	_NG		
SR. NO.	TEST PARAMETER	UNIT	RESULTS	GPCB NORMS#	TEST / SAMPLING METHOD
	Particulate Matter	mg/Nm ³	6.36	150	IS:11255 (Part-I):1985
	Sulfur dioxide (as SO ₂)	ppm	1.64	100	IS:11255 (Part-II):1985
3 BDL*: Be	Oxides of Nitrogen (as NO _x)	ррт	6.24	50	IS:11255 (Part-VII):2005

*Details provided by customer. Results on 11 % Oz Correction when Oxygen is greater than 11 %

H.T. Shah Lab Manager

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Dr. Arun Bajpai Lab Manager (Q)

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TEST CERTIFICATE FOR STACK GAS MONITORING

Customer's Name and Address :		Page: 1 of 1
	Test Report No. :	PL/LT 0101
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date :	22/08/2017
	Customer's Ref. :	W.O : F15001153 DTD:20.06.2017

STACK DETAILS & RESULT

	•	- 1	· · · · · · · · · · · · · · · · · · ·			
·	Location of Sampling	:	Boiler Stack	Sampling Procedure	:	As Per Table
	Date of Sampling	:	11/08/2017	Protocol (purpose)	:	Stack Gas Monitoring
	Sampling By	8.	Pollucon Laboratories Pvt. Ltd.	Time of Sampling in Hrs	51	11:45
•	Sample Receipt Date	:	12/08/2017	Lab ID	;	LT/1708/05A
•	Date of Starting of Test	-	12/08/2017	Date of Completion		17/08/2017
•	Fuel#	.	Natural Gas	Stack Temperature	1	90 °C
	Stack Height#	:	35 meter	Velocity	;	7.93 m/sec
	Instrument Used & Calibration Due Date	:	Ecotech instrument stack s	ampler ESS 100,Sl.No.12	3-1	-71 & Date: 28.04.2018

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SR. NO.	TEST PARAMETER	UNIT	RESULTS	GPCB NORM ^{**}	TEST / SAMPLING METHOD
1	Particulate Matter	mg/Nm ³	19.65	150	IS:11255 (Part-I):1985
2	Sulfur Dioxide as SOz	ppm	3.26	100	IS:11255 (Part-II):1985
3	Oxides of Nitrogen as NO _X	ppm	16.58	50	IS:11255 (Part-VII):2005

**Details provided by customer. Results on 11 % O₂ Correction when Oxygen is greater than 11 % and 12 % CO₂ Correction when CO₂ is less than 12 % CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022

H.T. Shah Lab Manager

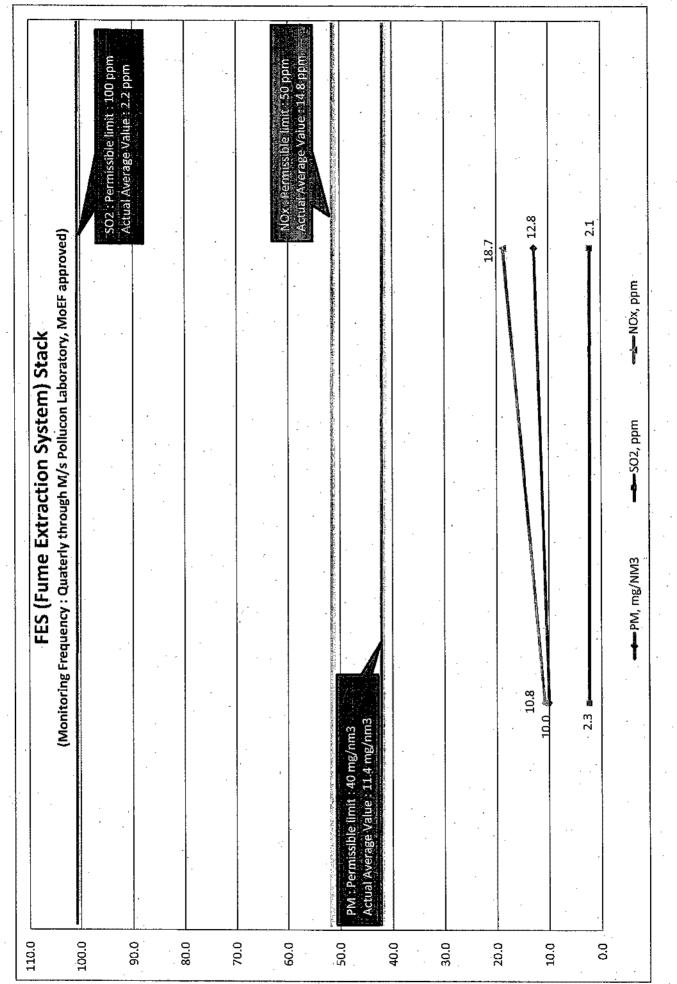
Dr. Arun Bajpai Lab Manager (Q)

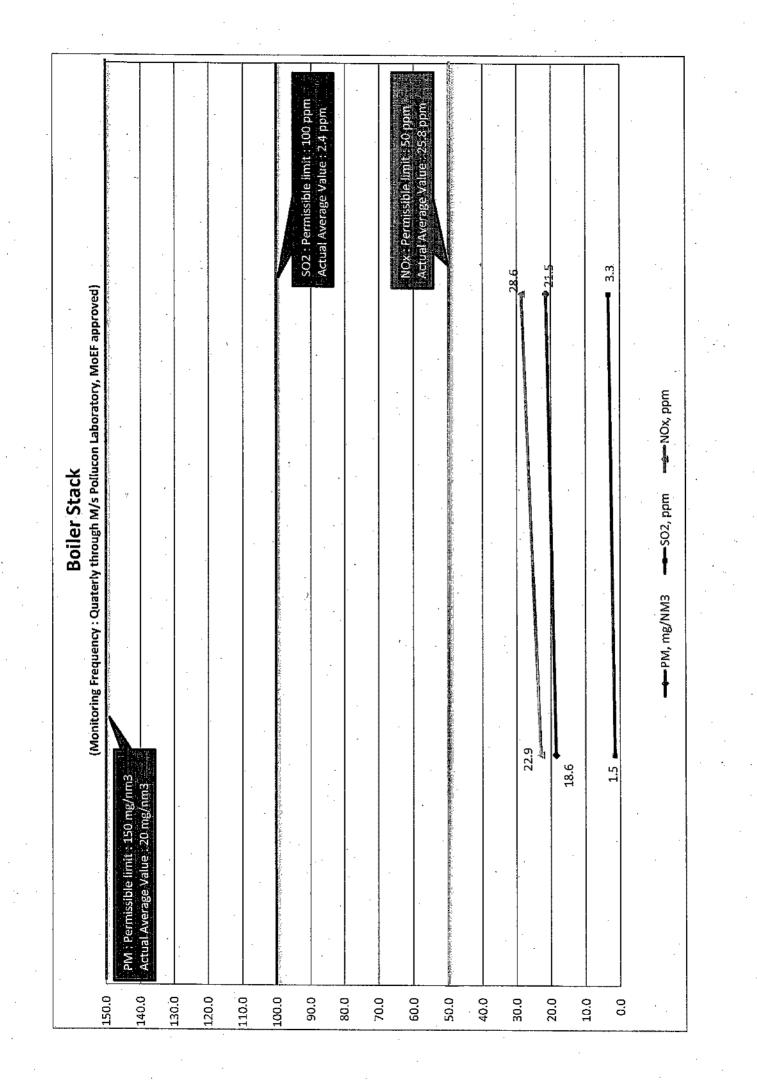
Note: This report is subject to terms & conditions mentioned overleaf.

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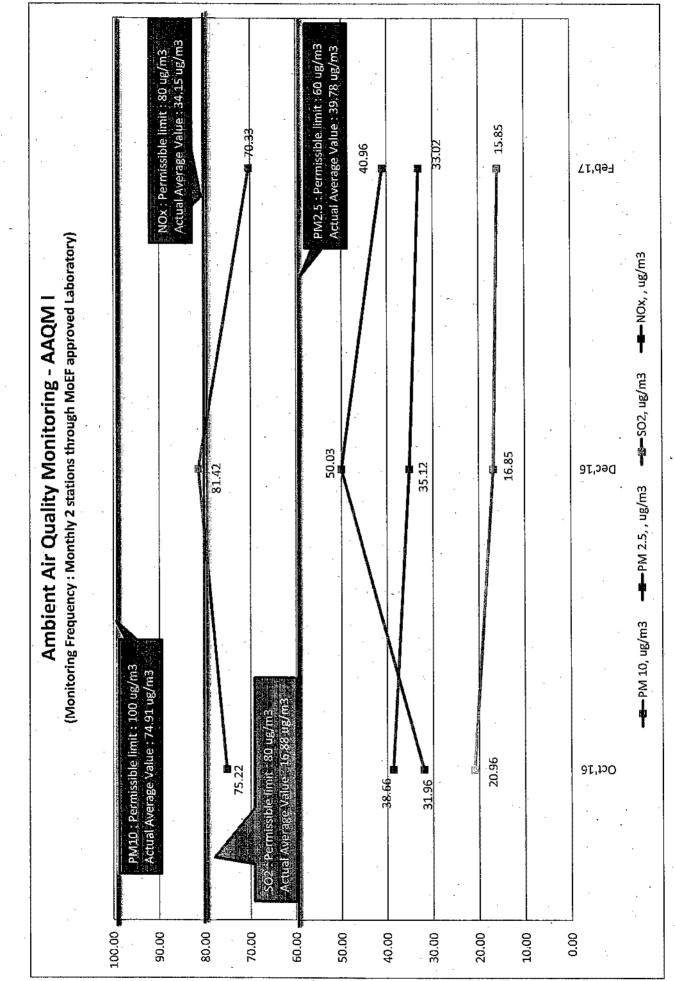


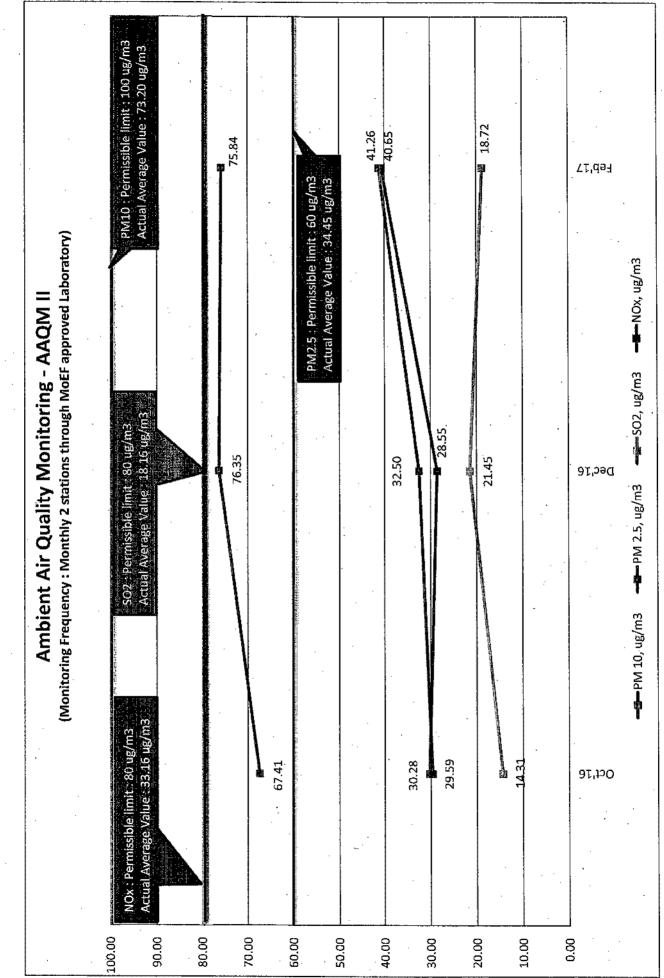


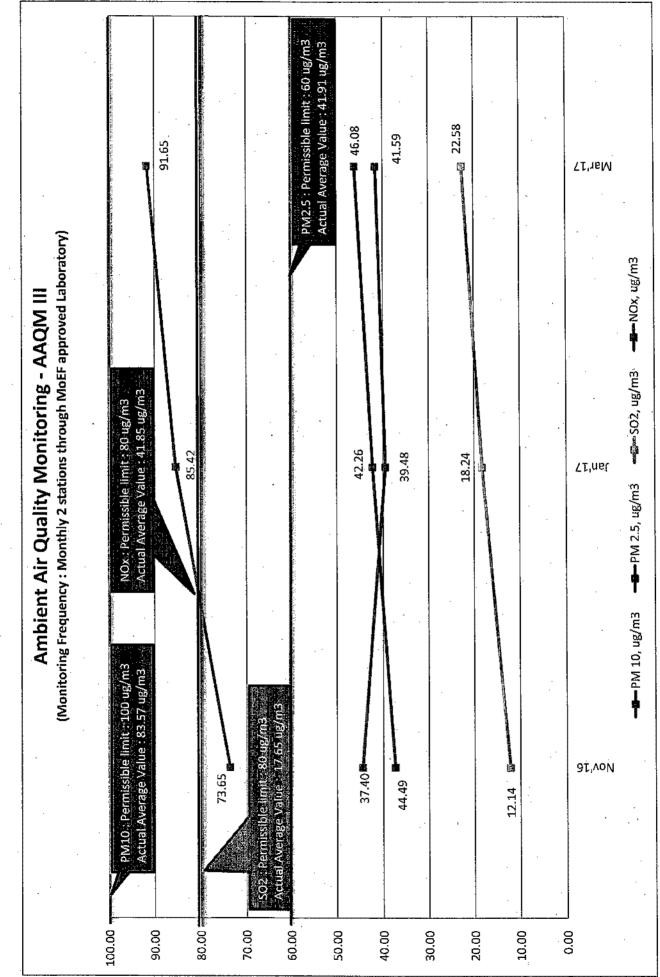
0.001 90.0 80.0						
0.08	· • • •	Heating Furnace: (Monitoring Freque	s, Re Heating (RH	Heating Furnaces, Re Heating (RH) & Heat Treatment (HT), Stack (Monitoring Frequency : Quaterly through M/s Pollucon Laboratory, MoEF approved)	nt (HT), Stack MoEF approved)	
80.0					SO2 : Pern Actual Ave	SO2 : Permissible limit : 100 ppm Actual Average Value : 2.0 ppm
0 0 1	· · · · · · · · · · · · · · · · · · ·					
50.0 50.0	<u>NOX : Permissible limit 50 p</u> Actual Average Value -9.1 p	init 50 ppm ue 9.1 ppm				
40.0						
30.0					PM : Permissib Actual Average	PM : Permissible limit : 40 ppm Actual Average Value : 10.9 ppm
20.0	15.2	10.0				
((14.7		10.0	10.0	10.0	10.0
	2.5	9.2 ²² 1.7	8:0 单 1.5	3.1 8.8	5,7 1 ²⁵	7.9
	Re Heating Furnace	HT Furnace 250T	HT Furnace 400T	Re Heating Furnace	HT Furnace 250T	HT Furnace 400T
-		₩, mg/NM3	/NM3 -202, ppm		• .	
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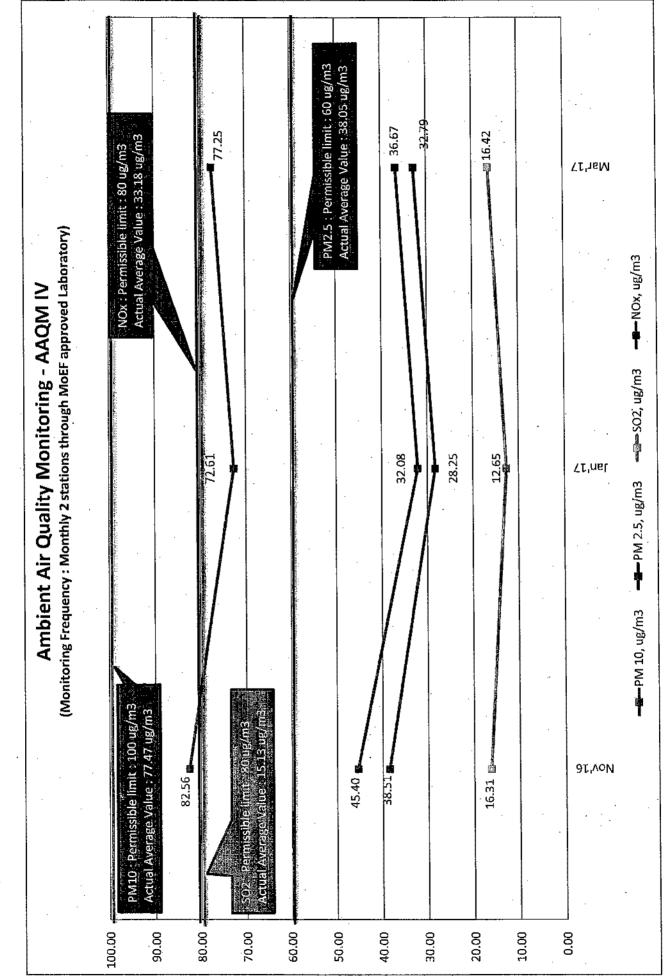
Annexure 2:

Ambient Air Quality Monitoring Reports









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TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

Customer's Name and A	ddres	5	· · · · · · · · · · · · · · · · · · ·		QRV5.10/32C Page: 1 of 1
POST: BHATHA,	ACTU DIST	RING COMPLEX, SURAT, GUJARAT,		Test Report No. Issue Date	
INDIA, PIN COL)E - 3	94510		Customer's Ref.	W.D. No. FL5001001 DTD 21.57.2015
Sampling Location	ŧ	AAQM# 1 STP Plan	it Wind Direction		SW
Date of Sampling	4 +	21/04/2017	Sampling Pro		As per table
Sampling By		Pollucon Laboratories P			AAQM
Sampling Time in Hr.		22:30	Lab ID		LT/1704/02 [A - D]
Sample Receipt Date	ŧ	22/04/2017	Sampling Du	ation	24 Hrs.
Date of Starting of Test.		22/04/2017	Date of Comp	letion of Test	27/04/2017
Instrument Used & Calibration Due Date		Respirable Find Du APM 415 Sr. No.: 7	ist Sampler & Attached (52 DTA 99, Date: 01/05	ases Arressories	

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULTS	LIMIT#	METHOD OF
<u>1</u>	Respirable Particulate Matter(PMia)	pg/m ³	69.25	100	MEASUREMENT 15:5182(Part 23)
2	Particulate Maiter (PM ₂₅)	±9/m ³	28,34	60	Gravimetric
3	Sulphur Dioxide (SO2)	µg/m ³	14.33	80	IS:5182(Part 2);2001
4	Oxides of Nitrogen	µg/m ⁹	32.55	80	IS:5162(Fact 6)/1975 (Reammed 1998)

• ISSAI Aputh I Shah Recognised by MoEP, New Delhi Under Lab Manager 2 of Serviron motel (Protection) Act-1985

• GPCB spprved • ISO 12001: 2004 • DNACHTIBS (pair • ISO 8001: 2000 schedule Il soditor Lab Manager (Q)

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Head Office 1 544, Belgium J. Reven Risg Boad, Ope, Higer Rug Eland, Sural 195003, (Rug.), Tole, 102511 2455751, 2601224, 2601186 Branch Office 1 Piol No. 5/6, Pollucon House, Opp, Balal Industrial Soc., Old Shantingh Silk Mill Lane, Navjivan Circle, Udbana Magdalla Road, Sural-3905007. Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Websile , www.polluconlab.com ROBERCONDERATORIES PUTTO

TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

HAZIRA MANUFACT	LS AND HEAVY FORGINGS PVT. URING COMPLEX, IT: SURAT, GUJARAT,		Tesi Report No. Tssue Date Customer's Ref.	QR/5.10/32C Page: 1 of 1 PL/LT 0044 01/05/2017 W.O. No. FL5001001
			Construct 2.1201	DTD 21.07.2016
Sampling Location	AAQM# 2 Near Porta Cabin 21/04/2017 Pollucon Laboratories Pvt. Ltd.	Wind Direction Sampling Proc Protocol (purp	eduré	SW As per table AAOM
Sampling Time in Hr. : Sample Receipt Date . :	23:00 22/04/2017	Lab TD Sampling Dura		LT/1704/01 [A - D] 24 Hrs.
Date of Starting of Test s Instrument Used & Calibration Due Date	22/04/2017 Respirable Find Dust Sampler 6 APM 415 Sr. No.: 607 DTA99, D	Date of Comple Attached Gas	ation of Test.	27/04/2017

		RESUL	<u>r table</u>	n an	en an an an Arthread an Anna Anna Anna An an an Arthread Anna Anna Anna Anna Anna Anna Anna Anna
SR. NO.	TEST PARAMETERS	UNIT	RESULTS	LIMIT#	METHOD OF MEASUREMENT
1	Respirable Particulate Matter(PMin)	µg/m ³	72.65	100	IS:5162(Part 23)
2	Particulate Matter (PM _{2.5})	µg/m ³	.35.64	60	Gravimetric
3	Sulphur Dioxide (SO2)	µg/m³	19.58	80	15:5182(Part 2):2001
4 Linder Inc	Oxides of Nitrogen	μ <u>0</u> /៣ ³	35,39.	80	15:5182(Part 5):1975 (Res/Trimed 1996)



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 GPCB apprved ISC 14001:2004 . schedule II auditor Head Office 1 544, Belgium Nober Minis hereoftris sinerefule Stanon 8 Get Station Function - Felen (626) / 24 5551, 2601224, 2601106 Branch Office : Plot No. 5/5, Pollucon House, Opp. Balail Industrial Soc. Old Shanunath Silk Mill Larie, Navjivan Circle, Udhana Magdatta Road, Surat-390500

Tele: (0261) 2635760, 2635751 E-mail: pollucon@gmail.com, Websile : www.polluconlab.com

C Dr. Arin Bainai Orsis jooni any enor soon ; 2098 Lab Manager (Q)

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TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

Customer's Name and Addr	255 1	and the second		QR/5.10/32C Page: 1 of 1
	EELS AND HEAVY FORGING	S PVT. LTD. T	est Report No.	: PL/LT 0054
	CTURING COMPLEX, DIST: SURAT, GUJARAT,	I	sue Date	: 18/05/2017
INDIA. PIN CODI		c	ustomer's Ref.	W.D. No. FLS001001 DTD 21.07.2016
Sampling Location	AAQM#3 STP Sump 2	Wind Direction		Calm
Date of Sampling	12/05/2017	Sampling Proces	ture :	As per table
Sampling By	Pollucan Laboratories Pvt. Ltd.	Protocol (purpos	se) :	ААОМ
Sampling Time in Hr.	22:30	Lab ID	1	LT/1705/01 [A - D]
Sample Receipt Date	13/05/2017	Sampling Durati	on :	24 Hrs.
Date of Starting of Test	13/05/2017	Date of Complet	tion of Test	18/05/2017
상품은 승규는 가격하는 것. 역사는 것 같은 동안	Yash Combo PM10 & PM	2.5 Diff Rotam	eter Yash Moo	lel Nos-PNS-
Instrument Used & Calibration Due Date	Combo PM10 SAMPLER DGM G PM2.5 SAMPLER DGM G Cal.Date : 28/05/2016 I	1.6 14697612,	2014	

SR. NO.	TEST PARAMETERS	UNIT	RESULTS	LIMIT#	METHOD OF MEASUREMENT
1	Respirable Particulate Matter (PM10)	µg/m ³	78.36	100	.IS:5182(Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	34.56	60	Gravimetric
3	Sulphur Dioxide (SO ₂).	µg/m ³	15,62	80	IS:5182(Part 2):2001
4	Oxides of Nitrogen	µg/m³	37.31	80	IS:5182(Part 6):1975 (Reaffirmed 1998)

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ion: : 2004 • (ASASTHATBAIRA) ISO 9001 ; 2008 Lab Manager (Q)

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TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

Customer's Name and Addr				/5.10/32C ge: 1 of 1
M/S.L&T SPECIAL S	TEELS AND HEAVY FORGINGS	PVT. LTD. Test Re	eport No. : PL/LT (055
POST: BHATHA,	CTURING COMPLEX, DIST: SURAT, GUJARAT,	Issue D	Date : 18/05/	2017
INDIA. PIN COD	E-394510	Custorr	ner's Ref. ; W.O. No. F DTD 21.0	1.5001001 7.2016
Sampling Location :	AAQM#4 WEIGHT BRIDGE	Wind Direction	: Calm	
Date of Sampling	12/05/2017	Sampling Procedure	: As per ta	ble
Sampling By	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	: AAQM	
Sampling Time in Hr. 1	23:00	Lab ID	: LT/1705/	02 [A - D
Sample Receipt Date 👔	13/05/2017	Sampling Duration	: 24 Hrs,	
Date of Starting of Test	13/05/2017	Date of Completion of	FTest : 18/05/2	017
Instrument Used & Calibration Due Date	Yash RDS: PHS-RDS-21, 1 Cal Date : 28/09/2016 Due	NOS-160203120 e Date : 27/09/201		

SR. NO.	TEST PARAMETER	UNIT	RESULT	LIMIT#	METHOD OF MEASUREMENT
1	Respirable Particulate Matter(PM10)	µg/m³	85,63	100	IS:5182(Part 23)
2	Particulate Matter (PM25)	µg/m ³	40.38	60	Gravimetric
3	Sulphur Dioxide (SO2)	µg/m ³	18.25	80	IS:5182(Part 2):2001
4	Oxides of Nitrogen	µg/m ^a	44.34	80	IS:5182(P≥rt 6);1975 (Rezfirmed 1998)



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• ISO 14001 : 2004 • (PISATMA Baipal, ISO 9001 : 2008 Lab Manager (Q)

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POLLUCON LABORATORIES PVT. 1TD

TEST ATE FOR AMBIENT AIR QUALITY MONITORING ERTIFI

Customer's Name and Address :	· ·	QR/5.10/32C Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD. HAZIRA MANUFACTURING COMPLEX,	Test Report No. :	PL/LT 0068
POST: BHATHA, DIST: SURAT, GUIARAT	Issue Date	06/07/2017
INDIA, PIN CODE - 394510	Customer's Ref. ;	W.O. No. FLS001001 DTD 21.07.2016
Sampling Location : AAQM#3 STP Sump 2 Wind Direction)n	Calm
Date of Sampling : 23/06/2017 Sampling Pro		

	Samalina D		company roceanie	. 1	As per table	1
	Sampling By	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	· · ·	AAQM	ľ
	Sampling Time In Hr.	20:30	Lab ID		LT/1706/01 [A - D]	
	Sample Receipt Date	24/06/2017	Sampling Duration	5	24 Hrs.	
	Date of Starting of Test	24/06/2017	Date of Completion of Test		29/06/2017	
	Instrument Used &	Yash Combo PM10 & PM2 Combo		Mode	el Nos-PNS-	-
	Calibration Due Date	PM10 SAMPLER DGM G1 PM2.5 SAMPLER DGM G1 Cal.Date : 28/05/2016 Du	6 14607612 2014	•		
			<u>ne pare : 27/05/2018</u>			J

RESULTS

SR.					
NO.	TEST PARAMETERS	UNIT	RESULTS	LIMIT#	METHOD OF
1 1	Respirable Particulate Matter(PM10)	µg/m ³	81.24	100	MEASUREMENT IS:5182(Part 23)
2	Particulate Matter (PM _{2.5})	μg/m ³	47.01	60	Gravimetric
3	Sulphur Dioxide (SO ₂)	µg/m ³	19.16	80	
4	Oxides of Nitrogen	µg/m ³	45.69		IS:5182(Part 2):2001 IS:5182(Part 6):1975
Limit#; In	dustrial, Residential, Rural and other Area Notification (P9/11/	-13.09	80	(Reaffirmed 1998)

il, Residential, Rural and other Area Notification Dated 18th Nov,2009 as per national Amblent Air Quality Standards, CPCB New Delhi, 18 Earlie

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• ISO 14001 : 2004 • CHSAS 100 Baipaie ISO 9001 : 2008 Lab Manager (Q)

Head Office : 544, Belgium Note: Ringscorportois Subjectut Stando Stando Subject to Stando Subject Stando Stando Subject Stando Stando Subject Stando Stando Subject Stando Stando Subject Stando Subject Stando Subject Stando Subject Stando Stando Stando Subject Stando St Tele : (0261) 2635750; 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com 322

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Customer's Name and A			QR/5.10/32C Page: 1 of 1
HAZIRA MANL	STEELS AND HEAVY FORGINGS FACTURING COMPLEX, A, DIST: SURAT, GUJARAT, DE – 394510	5 PVT. LTD. Test Report Issue Date Customer's F	No. : PL/LT 0069 : 06/07/2017
			010 21.07.2016
Sampling Location	AAQM#4 WEIGHT BRIDGE	Wind Direction	: Calm
Date of Sampling	: 23/06/2017	Sampling Procedure	: As per table
Sampling By	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	: AAQM
Sampling Time in Hr.	24:45	Lab ID	: LT/1706/02 [A - D]
Sample Receipt Date	24/06/2017	Sampling Duration	: 24 Hrs.
Date of Starting of Test	24/06/2017	Date of Completion of Test	: 29/06/2017
Instrument Used & Calibration Due Date	Yash RDS: PHS-RDS-21, N Cal Date : 28/09/2016 Due	NOS-160203120	

RESULT TABLE

SR.	Stort Provide States and American	<u> </u>			
NO.	TEST PARAMETER		RESULT	LIMIT#	METHOD OF MEASUREMENT
1	Respirable Particulate Matter(PM10)	µg/m ³	75.41	100	IS:5182(Part 23)
2	Particulate Matter (PM _{2.5}).	µg/m ³	42.08	60	Gravimetric
3	Sülphur Dloxide (SO ₂)	µg/m ³	13.83	80	IS:5182(Part 2):2001
4	Oxides of Nitrogen	µg/m ³	36.79	80	IS:5182(Part 6):1975 (Reaffirmed 1998)

• ISO 14001 : 2004 • 019 ATHID Baipai • ISO 9001 : 2008 Lab Manager (Q)

tural and other Area Notification Dated 18th Nov.2009 as per national Ambient Air Quality Standards, CPCB New Delbi.

Head Office: 544, Belgium Note: Films Reportors subjectures terms wet office of the Film Head Office 1544, Belgium Note: Films Reported to the subjectures terms were been and terms were been Branch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-390500 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

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TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT.	LTD. Test Report No. : PL/LT 0081
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT, INDIA. PIN CODE – 394510	Issue Date 05/08/2017 Customer's Ref. W.0 : FLS001153 DTD:20.06.2017
	d Direction : Calm pling Procedure : As per table
Date of Sampling : 12/07/2017 Sam	
Date of Sampling : 12/07/2017 Sam	pling Procedure : As per table ocol (purpose) : AAQM
Date of Sampling:12/07/2017SamSampling By:Pollucon Laboratories Pvt. Ltd.ProteSampling Time in Hr.:20:40Laboratories Pvt.	pling Procedure : As per table ocol (purpose) : AAQM

Yash Combo PM10 & PM2.5 Diff Rotameter Yash Model Nos-PNS- Combo PM10 SAMPLER DGM G1.6 14697610,2014 PM2.5 SAMPLER DGM G1.6 14697612,2014 Cal,Date : 28/05/2017 Due Date : 27/05/2018

		<u>RESI</u>	<u>ULTS</u>		
SR. 10.	TEST PARAMETERS	UNIT	RESULTS	LIMIT#	METHOD OF MEASUREMENT
1	Respirable Particulate Matter(PM10)	µg/m ³	69.33	100	IS:5182(Part 23)
2	Particulate Matter (PM _{2.5})	µg/m ³	31.25	60	Gravimetric
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.59	80	IS:5182(Part 2):2001
4	Oxides of Nitrogen	µg/m ³	28.75	80	IS:5182(Part 6):1975 (Reaffirmed 1998)

Limit#: Industrial, Residential, Rural and other Area Notification Dated 18th Nov.2009 as per national Amblent Air Quality Standards, CPCB New Délhi.

CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022

Instrument Used &

Callbration Due Date

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Dr. Arun Bajpai ● ISO. 14001 : 2004 ● OHEAD1Mentager (3) 9001 : 2008

Head Office : 544, Belgium Towlet Ring Real Popt Is superstante Signte Soft de Soft (CDE) Man Towlet Ring Real 2601224, 2601106 Branch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-390500 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

Customer's Name and Add	réss :	QR/5.10/32C Page: 1 of 1
HAZIRA MANUF POST: BHATHA,	TEELS AND HEAVY FORGINGS PVT. LTD. ACTURING COMPLEX, DIST: SURAT, GUJARAT,	Test Report No. : PL/LT 0082 Issue Date : 05/08/2017
INDIA. PIN COD	E – 394510	Customer's Ref. : W.O ; F15001153 DTD:20.06.2017
Sampling Location Date of Sampling Sampling By Sampling Time in Hr. Sample Receipt Date Date of Starting of Test	AAQM# 2 Near Porta CabinWind Direction12/07/2017Sampling ProPollucon Laboratories Pvt. Ltd.Protocol (pur24:30Lab ID13/07/2017Sampling Dur13/07/2017Date of Comp	cedure : As per table pose) : AAQM : LT/1707/02
Instrument Used & Calibration Due Date	Yash RDS: PHS-RDS-21, NOS-160203120 Cal Date : 28/09/2016 Due Date : 27/09/2	

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULT	LIMIT#	METHOD OF MEASUREMENT
1	Respirable Particulate Matter(PM ₁₀)	µg/m ³	75.26	100	IS:5182(Part 23)
2.	Particulate Matter (PM _{2.5})	µg/m ³	41.97	60	Gravimetric
3	Sulphur Dioxide (SO ₂)	µg/m ³	21,50	80	IS:5182(Part 2):2001
4	Oxides of Nitrogen	µg/m ³	37.71	80	IS:5182(Part 6):1975 (Reaffirmed 1998)
5	Carbon Monoxide as CO	mg/m ³	0.76	4.0	NDIR Digital Gas Analyzer
_6	Benzene as C ₆ H ₆	µg/m ³	BDL*	5.0	IS 5182 (Part XI):2006/CPCB Method
7 ·	Ammonia (NH3)	µg/m³	34.28	400	CPCB Method (Vol.1, May-2011)
8	Ozone as O ₃	µg/m³	26.29	100	IS 5182 (PART IX) 1974 / CPCB Method (Vol.I,May-2011)
- 9	Lead as Pb	µg/m³	BDL*	1.0	CPCB Method (Vol.1, May-2011)
10	Benzo (a) Pyrene (BaP)- particulate phase only	µg/m ³	BDL*	1.0	CPCB Method (Vol.I,May-2011)
11	Arsenic as As	µg/m ³	BDL*	6.0	CPCB Method (Vol.I,May-2011)
12	Nickel as Ni	µg/m³	BDL*	20	CPCB Method (Vol.I, May-2011)

Limit#; Industrial, Residential, Rural and other Area Notification Dated 16th Nov.2009 as per national Ambient Air Quality Standards, CPCB New Delhi. CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022 .

BDL*: Below Detection Limit, Minimum Detection limit: Lead as Pb (µg/m³):0.5, Benzo (a) Pyrene (BaP) - particulate phase only (ng/m³): 0.5, Nickel as Ni (ng/m³):10, Benzene as $C_{s}H_{6}\,(\mu g/m^{3})$: 2, Arsenic as As (ng/m³): 2.

T. Shah Ή.

Dr. Arun Bajpai

•FSSAI Approved Lib Managered by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 GPCB apprved ● ISO 14001 : 2004 ● OILSAS TERPA a2007 (€150 9001 : 2008 schedule II auditor

Head Office : 544, Belgium To Not Hing No 18 Port. En Line 1965 Stane, S Branch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-390500 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com



TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

Customer's Name and Addr	ess:		Page: 1 of 1
· · · · · · · · · · · · · · · · · · ·	FEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No.	PL/LT 0093
	CTURING COMPLEX,	Issue Date :	22/08/2017
POST: BHATHA, I INDIA. PIN COD	DIST: SURAT, GUJARAT, E - 394510	Customer's Ref. ;	W.O : FLS001153 DTD:20.06.2017
			-
Sampling Location	AAQM# 2 Near Weightbridge Wind Direction	י חמ	Calm
Date of Sampling	11/08/2017 Sampling Pro	cedure :	As per table
Sampling By	Pollucon Laboratories Pvt. Ltd. Protocol (pur	pose) :	AAQM
Sampling Time in Hr.	24:30 Lab ID		LT/1708/02 [A - D]
Sample Receipt Date	12/08/2017 Sampling Du	ration	24 Hrs.
Date of Starting of Test		pletion of Test	18/08/2017
Instrument Used & Calibration Due Date	Yash RDS: PHS-RDS-21, NOS-160203120 Cal Date : 28/09/2016 Due Date : 27/09/20	017	
	RESULT TABLE		

SR. NO.	TEST PARAMETER	UNIT	RESULT	LIMIT#	METHOD OF MEASUREMENT
1	Respirable Particulate Matter(PM ₁₀)	µg/m ³	67.14	100	IS:5182(Part 23)
2	Particulate Matter (PM _{2.5})	µg/m ³	32,74	60	Gravimetric
3	Sulphur Dioxide as SO ₂	µg/m ³	16.24	80	15:5182(Part 2):2001
4	Oxides of Nitrogen as NOx	µg/m ³	30.22	BD	IS:5182(Part 6):1975 (Reaffirmed 1998)

Limit#: Industrial, Residential, Rural and other Area Notification Dated 16th Nov.2009 as per national Amblent Air Quality Standards, CPCB New DelhL CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022



Dr. Arun Bajpai Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING 08/5.10/320

		Page: 1 of 1
Customer's Name and Address : M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No. :	PL/LT 0103
HAZIRA MANUFACTURING COMPLEX,	Issue Date :	29/09/2017
POST: BHATHA, DIST: SURAT, GUJARAT, INDIA. PIN CODE – 394510	Customer's Ref.	W.O ; FLS001153 DTD:20.06.2017

Sampling Location	:	AAQM# 1 Near Porta Cabin	Wind Direction	-	Calm
Date of Sampling	•	07/09/2017	Sampling Procedure	:	As per table
Sampling By	:	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)		AAQM
Sampling Time in Hr.	•	20:35	Lab ID	:	LT/1709/04[A-D]
Sample Receipt Date	:	08/09/2017	Sampling Duration	-	24 Hrs.
Date of Starting of Test		08/09/2017	Date of Completion of Test	•	18/09/2017
Instrument Used & Calibration Due Date	:	POLLTECH PEM-HVF-10Sr. N Cal.Date : 13/05/2017 Due	lo.; 182 Date : 12/05/2018		

RESULTS

SR. NO,	TEST PARAMETERS	UNIT RESULTS		LIMIT#	METHOD OF MEASUREMENT
- 1	Respirable Particulate Matter(PM10)	µg/m³	82.39	100	IS:5182(Part 23)
2	Particulate Matter (PM _{2.5})	µg/m³	46.62	60	Gravimetric
3	Sulphur Dioxide as SO ₂	µg/m³	15.31	80	IS:5182(Part 2):2001
4	Oxides of Nitrogen as NOx	µg/m ³	29.04	80	IS:5182(Part 6):1975 (Reaffirmed 1998)

Limit#: Industrial, Residential, Rural and other Area Notification Dated 18th Nov.2009 as per national Ambient Air Quality Standards, CPCB New Delhi. CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022

H.T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 9001 : 2008

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TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

	Iress :			Page: <u>1 of 1</u>
	STEELS AND HEAVY FORGING	S PVT. LTD.	Test Report No. :	PL/LT 0104
	ACTURING COMPLEX,		Issue Date :	29/09/2017
INDIA. PIN COI	DIST: SURAT, GUJARAT, DE 394510		Customer's Ref.	W.0 : FLS0D1153 DTD:20.06.2017
Sampling Location :	AAQM# 2 Near STP	Wind Direct	ion :	Calm
Date of Sampling :	07/09/2017	Sampling Pr	ocedure :	As per table
Sampling By :	Pollucon Laboratories Pvt. Ltd.	Protocol (pu	irpose) :	AAQM
Sampling Time in Hr. :	24:45	Lab ID	•	LT/1709/05[A-D]
Sample Receipt Date :	08/09/2017	Sampling D	uration :	24 Hrs.
Date of Starting of Test	08/09/2017	Date of Cor	npletion of Test :	18/09/2017
Instrument Used & Calibration Due Date	POLLTECH PEM-HVF-10Sr Cal.Date : 13/05/2017 Du		5/2018	

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULT	LIMIT#	METHOD OF MEASUREMENT
1	Respirable Particulate Matter(PM10)	µg/m³	74,19	100	IS:5182(Part 23)
2	Particulate Matter (PM _{2.5})	µg/m³	35.09	60	Gravimetric
3	Sulphur Dioxide as SO_2	µg/m³	19.69	80	IS:5182(Part 2):2001
4	Oxldes of Nitrogen as NOx	µg/m ³	36.71	80	IS:5182(Part 6):1975 (Reaffirmed 1998)

Limit#: Industrial, Residential, Rural and other Area Notification Dated 16th Nov.2009 as per national Amblent Air Quality Standards, CPCB New Dell CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022

H.T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

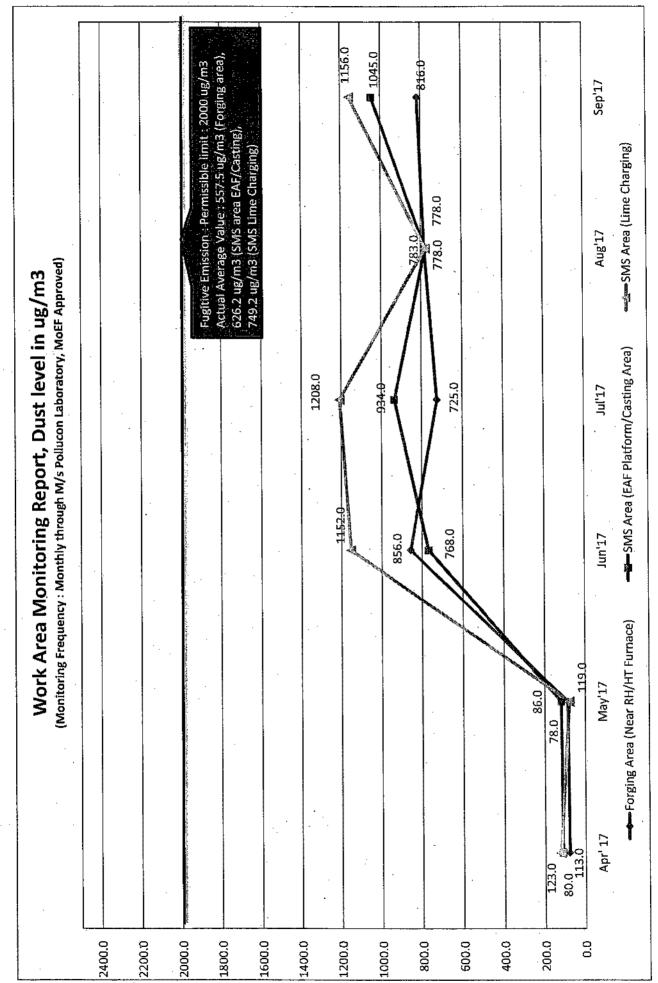
'SSAI Approved Lab • Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

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Head Office : 544, Belgium Tower, Ring Road, Opp Linear Bus Stand, Surat-395003. (Guj.) Tele : (0261) 2455751, 2601224, 2601106 ich Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007. Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

Annexure 3:

Work Area Monitoring Reports



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	under Sec	cruring c Is Date: 21.0				Number of workers exposed at the location deing montored	IO	03.persun working At Sampling	
)	reduited	ta MANUFA				Reference method	ទា	IS 5182 (Part IV) Utgital Gas Antilyzer	- Limit
	.37 (e 12-8) avironment	GIENS, HAZH (AT, INDIA.		Minimum 10 m distance Instrumex Black Rota Meter (0 - 5 LPM) Sr. No.: ABR/077 Date of calibration: 16.04.2016 Due Date of calibration:15.04.2017		TrwA Concen- tration (As given th second schedula	ស	15+ mg/m ³ sTEL	Shott Terra Exposure Limit
	FORM NO. 37 (Prescribed under Rule 12-B) boring of working environm	L & T SPECIAL STEEL & HEAVY FORGIENS, HA POST: BHATA, DIST: SURAT, GUJARAT, INDIA	g	mum 10 m distance rumex Black Rota Meter (0 - 5 lo.: ABR/077 tof calibration: 16.04.2016 Date of calibration:15.04.2017		Average	7	0.76 mg/m ³ 0.24 mg/m ³	
	(Prescribe	AL STEEL A A, DISTI SI	Near RH Furnace Metal	Minimum 10 m distance Instrumex Black Rota M Sr. No.: ABR/077 Date of calibration: 16.0 Due Date of calibration:	0 to 00:30	Alrboine Contamination o. of Range mples	υ	0.5-20 mg/m ⁵ mg/m ²	4 Tactory and Index STEL
	of moni	& T SPECI	Near Metal	Minim Instru Sr, No Date (Date D	23:30		υn		fter Gesteral Industry,
	articulars	DRESS: La				Sampling instrument used	चुम्	Dust Gollector Digital Gas Analyzer/ Placider	1
	FORM NO. 37 (Prescribed under Rule 12-B) Register containing particulars of monitoring of working environment required under Section 7-A (a) (e).	CUSTOMER'S NAME AND ADDRESS: L&T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, POST: BHATA, DIST SURAT, GUJARAT, INDIA. ISSUE Date: 21.04.2012	artment/Plant.	arce	Hrs.	Identified containtitant	5	Drist Particulate Carbon Monoxide as	
	Register	CUSTOMER"	Name of the Department/Plant. Raw Material	Distance from source Instrument Used	Sampling Time in Hrs.	Lacation/ Ope0ration Meritioned	64	Near RH Furnace 2	as per OSHA Farmisside
				n T T	, Rai	is a			

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	<u> </u>	j t t	& 22.04.2017	- 1 . 				.**	•			re Name (In Block letter)	13		kichtadiya
	A (a) (e	5		-			•	:		-		Signature of person taking samples	R.		
· ·	tion 7-,	OMPLEX,	34,2017				· .	· · ·				Reinfes	TT		
	under se	ctùring c	Date: 21.0				113				Number of workers	exposed et:the tocation being	monthorgd10	05 person working	At Sampling Time
	required	LA MANUFA	Sampling Date: 21.04.2017				PEM-HAS-					Reference	5	IS 5182 (Part IV)	Digital Gas Analyzer
37	(Prescribed under Rule 12-B) onitoring of working environment required under Section 7-A (a) (e).	(GIENS, HAZIF RAT, INDIA,	Ω.			a,	Handy Sampler Politech Model No. PEM-HAS-113 Sr. No: 308	Date of calibration: 16.04,2016 Due Date of calibration:15.04,2017			TWA CONTRIM	tratiten As given second	scredule		440 mg/m ³ 5TEL
FORM NO. 37	(Prescribed under Rule 12-B) bring of working environn	& HEAVY FOR URAT, GUJAI	•	Lime Charging System		Minimum 10 m distance	npler Politec 3	Date of calibration: 16.04,2016 Due Date of calibration:15.04,2	0			Avenage	ħ	1.22 mg/m [*]	
	(Prescrit	N, DIST: 6		me Char	Lime	mimum	Handy Sam Sr. No: 308	ite of cal le Date c			Airborne ntamination	Range	u,	0.5-20 mg/m³	ີ 0.1-1 ເກເຍຼ/ີ m ³
	of monit	K T SPECIA ST, BHATA			Ĩ	Mi	ΞŐ		1		Arrporne Contaminati	No. of samples		₹	
	articulars	DRESS: L. 8 PO		- · ·		•					<u>-</u>	samping instrument used		Bust Collector	Draftal Car Analyzer/ Riscruce:
	Register containing particulars of m	CUSTOMER'S NAME AND ADDRESS: 1. & T'SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, Post: BHATA, DIST: SURAT, GUJARAT, INDIA.		artment/Plant.		Irce	•	1 1 1			-	Identified contaminant	τ*)	Dust Particulate	System 2 Martoxide as Co.
	Register	CUSTOMER'	•	Name of the Department/Plant.	Raw Material	Distance from source	[inchrimment lead	Samolina Time In Lie))]		1	Deration Operation Mentioned	2	Linie L	System 2
			. : <u>.</u>	Nan	Raw	Dist	[nch			·		45 <u>2</u>		<u> </u>	

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		f	2017		•						Name (în block Ietter)	<u></u>	NST. Mullerin	សែលាំវាមាន់មុខ	
		\ (a) (e).	comPLEX, Issue Date: 01.05.2017 .04.2017 & 22.04.2017		· · ·		- - -				Signature of person taking samples	12	d.		ABLER OF
		tion 7-7	MPLEX, sue Dat 4.2017	• •	• • •	-					Remarks	 1~1 1~1			A A
	and the second s	mder Sed	TURING CC Ise late: 21.0			•	201			Number of workers	exposed at the location being montored	10	04 person working	At Sanıpling Time	
0	in the second state of the	required c	RA MANUFACTURING COMPLEX, Issue Dat Sampling Date: 21.04.2017				M-HAS-11	•	 		Referenc e method	0.	IS 5182 (Part IV)	Calgital Gas Analyser	
	eranningen szenteren einen eine	le 12-8) nvironment	E	lrea	•		Handy Sampler Politech Model No. PEM-HAS-113 Sr. No: 208 Date of calibration: 16.04.2016			TWA concen-	tratton (As given In second schedule	3	15" 111 ⁵	40 ng/m² STEL	
	FORM NO, 37	(Prescribed under Rule 12-B) oring of working environ	& HEAVY FOR URAT, GUJAR	SMS Area EAF Platform Area		Minimum 10 m distance	Handy Sampler Politech Model No. Sr. No: 208 Date of calibration: 16.04.2016	alloracions. 5			Average	1	1.15 11,15	0.17 mg/m ³	dr,571A - Shirt Jam Exposure (drift
	The second s	(Prescrib oring of	L STEEL.	Area EA		num 10	ly Samp) o: 208 of calib	23:45 to 00:45		orne ination	Range	G	0.5-20 mg/m ³	0.1-1 (ng/m ³	t. = Shert Jern
\cap	n of the second seco	of monit	LT SPECIA ST: BHATA	SMS		Minh	Hand Date	23:41		Airborne Contamination	Nq, of samples	ហ			iter act limit, STE
	Stute the end of the e	articulars (DRESS: L &								Sampling Instrument used		Dust Collector	Digital Gas Analyzer/ Badder	anal Industry, # fho
		(Prescribed under Rule 12-B) Register containing particulars of monitoring of working environment required under Section 7-A (a) (e).	CUSTOMER'S NAME AND ADDRESS: L & T SPECIAL STEEL & HEAVY FORGIENS, HAI POST: BHATA, DIST: SURAT, GUJARAT, INDIA.	Name of the Department/Plant.		B		l's.			.Identified contaminant		Dust Particulate	Carbon Morioxíde as CO	ras use USERA Perificisible Esposisee Linst (PEL) for General Industry, # footiery act inn
		ter	EKS S	Jepar	•	sourc	D	нщ	-	•. •		-		N	ole Expos
an series and a series of the		Regis	CUSTOM	me of the C	Raw Material	Distance from source	Instrument Used	Sampling Time In Hrs.	· · ·		Lacation/ Operation, Mentioned	M	SMS Area EAF	Platform Area	e OSI & Perintsi
Hay Inc. Press,				Na	Rai	Dis	Ins	San	ļ		న 2	-1			व्या अस्
	· • · · · · · · · · · · · · · · · · · ·			•					<u> </u>				•		

TEST CERTIFICATE FOR HEAT STRESS MONITORING

220) B. E. (C.C.) NEABARAIONES PAREID

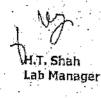
· .	Customer's Name and Address :		QR/5,10/32 Page: 1 of 1
•	M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD, HAZIRA MANUFACTURING COMPLEX,	Test Report No:	
	POST: BHATHA, DIST: SURAT, GUJARAT	Issue Date 💡	01/05/2017
	INDIA. PIN CODE - 394510.	Customer's Ref. :	W.D. No. FLS001001 WTD. 21.07,2016

HEAT STRESS RESULTS

Sr. No.	Mónitoring Date	Sampling Time Hr.	Sampling Location	Temperature	Humidity %	Heat Stress Index
1	- 21/04/2017	23:05	Lime Charging System	29	43	• 33
2	21/04/2017	23:30	RH Fumace Area	29	45	33
3	21/04/2017	23:45	EAF Platform Area	30	4 <u>4</u>	35

	Humidex 1	
		the second s
	General Controls	The second se
	CALLAGINE CONCIS	Action Recommended
•	50 ± 57	We have a second s
		Warn fue symptoms and extra water
	38 - 39	
		Werk with 15 minutes/liou relief
	40-41	
	The second se	Work will 30 minuses/hour roles
2.0	47 - 42	AAAAR MARK OF LUDITERS UNDER LEGEL
-		Work with 45 minutes/hour relief
-	AE .	WOLK WHEN AD FRANKES/ROLE FORES
- 14	Nor Muniedex ranges above 45, heat stress should be managed as ser the active route	Hazartions to confisue physical activity

Arisest Stress Nethod as per Dicupational Health and Safety Council of Unitary (Offse



Dr. Afun Bajpai Lab Manager (Q)

• FSSAI Approved Lab • Recognized by NOTE NTO STREPOTALS SUbject to temps & CONCINERS INAUTIONS CONSTRUCTIONS - 2007 • ISO 8001 : 2008 Sec. 12 of Environmental (Protection) Act-1086 schedule II auditor

Head Office : 544, Belgium Tower, Ring Road, Opp: Linear Bus Stand, Sural 395003, (Guj.), Tele : (0261) 2455761, 2601224, 2601106 Br≊nch Office : Piol No. 5/6, Politicon House, Opp. Balaji Industrial Soc.: Old Shantinath Silk Mill Lane, Navilvan Circle, Udhana Magdalla Road, Sural 3905007, Tele : (0261) 2635750, 2635761 E-mail : pplucon@gmail.com, Website : www.polluconlab.com FORM NO. 37

Register containing particulars of monitoring of working environment required under Section 7-A (a) (e). (Prescribed under Rule 12-B)

CÚSTOMER'S NAME AND ADDRESS: L& T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, POST: BHATA, DIST: SURAT, GUJARAT, INDIA.

Issue Date: 22.05.2017 Sampling Date: 12.05.2017 & 13.05.2017

			(in block letter)	EL	Mr. Mukesh	Pate)
		Signature	of person taxing samples	12	. Kel	
			Remarks	11	1	
		Number of workers	exposed at the location being	monitared 10	06 person working	•••
8 8 8 8 8 8			Reference method	6	IS 5182 (Part IV)	Digital Gas Analyzer
Lime Charging System Lime Minimum 10 m distance Politech Model No. PEM-HAS-113 Sr. No: 308 Politech Model No. PEM-HAS-113 Sr. No: 308 Date of calibration: 05/04/2018 Due Date of calibration : 04/04/2018 23:30 to 00:30		TWA concen-	tration (As given Ta	.scneoule 8	15, mg/m ³	440 mg/m ³ STEL
Lime Charging System Lime Minimum 10 m distance Politech Model No. PEM-HAS-113 S Politech Model No. PEM-HAS-113 S Date of calibration: 04/04/ Due Date of calibration: 04/04/ 23:30 to 00:30			Average	4	0.828 mg/m ³	0.18 marin ¹
Lime Charging Lime Minimum 10 m Politech Model N Politech Model N Date of calibra Due Date of ca		orne ination	Range	¢	0.5-20 mg/m ³	0.1-1 mov/m ³
Saura Contraction Cont		Airborne Contamination	No. of samples	'n	-+	
			Sampling Instrument used	4	Dust Collector	Digital Gas Analyzer/
rent/Plant.			Identified contaminant	m	Dust	Carbon Monoxide as
		· · .				N
Name of the Department/Plant. Raw Material Distance from source Instrument Used Sampling Time in Hrs.	•		Location/ Operation Mentioned		Lime	Charging System
Narr Raw Dist Inst Sarr			ы Ч		+	
······································		·.		,		



mg/m³ 0.18

0.1-1 mg/m³

Digital Gas Analyzer/ Bladder

9

+ Short Term Exposure Limit

as per OSHA Parmissible Exposure timit (PEL) (or u

•) (e).	COMPLEX, Issue Date: 22.05.2017	Three STATED'ST						Signature Name	<u> </u>	12 13	With Mukesh		Surar)
	ion 7-A (a	MPLEX, sue Date:	₩ TU2.0	-						Remarks	TT	1		MOON
• • •	nder Sect	TURING CO ISS	ate: 12.0					14. 14. 14. 14. 14.	workers	at the at the jocation being monitored	10	03 person working At	Sampling Time	
	squired u	MANUFAC	Sampling Date:			208				Referenc e method	6	IS 5182 (Part IV)	Digital Gas Analyzer	
N.	(Prescribed under Rule 12-B) nitoring of working environment required under Section 7-A (a) (e).	LENS, HAZIRA (T, INDIA.	τι Ν	E D		Politech Model No. PEM-HAS-113 Sr. No: 208 Date of calibration: 05/04/2017	Due Date of calibration: 04/04/2018 23:00 to 23:45		TWA concelt-	tration (As given In second scheidule	8	15. mg/m ³	440 mg/m ³ STEL	
FORM NO. 37	(Prescribed under Rule 12-B) oring of working environ	L & T SPECIAL STEEL & HEAVY FORGIENS, HA POST: BHATA, DIST: SURAT, GUJARAT, INDIA		SMS Area EAF Platform Area	winimum 10 m distance	Politech Model No. PEM-HAS-113 Sr Date of calibration: 05/04/2017	slibration: C			Average	7	1.375 mg/m ³	0.18 тд/т ³	n Exposure Limit
11	rescribed	STEEL &) DIST: SUI		Area EAF	n 10 num	ich Model of calibra	Due Date of ca 23:00 to 23:45		Airborne Contamination	Range	9	0.5-20 mg/m ³	0.1-1 ma/m ³	TEL: Stinut Terr
		r special r: Bhata,		SWS	Mînîn	Polite Date	рие I 23:0		Airb Contan	No. of samples	n.	+	+*	ctory act limit, S
· · · ·	ticulars of	RESS: L & J	•		-	24 •		•		Sampling instrument used	4	Dust Collector	Digital Gas Analyzer/ Bioditer	Industry, # fa
• •	Register containing particulars of mo	CUSTOMER'S NAME AND ADDRESS: L & T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, POST: BHATA, DIST: SURAT, GUJARAT, INDIA. ISSUE DAI		nent/Plant.		αι	ŷÌ			Identified contaminant		Dust Particulate	Carbon Monoxide as	*es per OBHA Permussible Expansion Limit (PEL) for General Industry, # factory act limit,STEL : Stient Term Expansion Limit
N.	ıîster co	MER'S N	•	Name of the Department/Plant	iai	Distance from source	Sampling Time in Hrs				1	Area 1	orm Ba	ોકા ણા કાર્યોટોય દિંગપ્ર
. •	Rec	CUSTO		ame of th	Raw Material	Distance from so	lampling)			Sr. Location/ No Mentioned		<u>\</u>	EAF Platform Area	the Dara P
	, . ,			Z.	α.	••••••••••••••••••••••••••••••••••••••			L	چه دی بر اللہ اللہ اللہ اللہ اللہ اللہ اللہ الل	<u></u>		<u> </u>	

ent/Plant. Near RH Furnace ent/Plant. Near RH Furnace Minimum 10 m distance ECOTECH Personal Sampler APM 800,Sr.No.1926-DTA-2014 Rota Meter (Sr.No.137/1010) (g – 3 LPM) Date of calibration: 30/05/2015 Date of calibration: 30/05/2017 Date of calibration: 30/05/2017 Date of calibration: 29/05/2017 23:45 to 00:45 23:45 to 00:45 to 0	Near RH Fornace Near RH Fornace Metal Minimum 10 m distance Metal Minimum 10 m distance EcortECH Personal Sampler Amonganer RecontECH Personal Sampler Amonganer APM 800,Sr.No.3 205-DTA-2014 3 iPM) Date of calibration: 29/05/2017 3 iPM Date of calibration: 29/05/2017 1 iPM Date of calibration: Pacipe 1 iPM Instro	یں ا		CUSTOMER'S NAME AND ADDRESS: L&T SPI	T SPECIAL T: BHATA,	STEEL & DIST: SU	POST: BHATA, DIST: SURAT, GUJARAT, INDIA		d Enilqm	Issue Dat Sampling Date: 12.05.2017	Issue Date: .05.2017 &	22,05,2017	017 017
Minimum 10 m distance Minimum 10 m distance ECOTECH Personal Sampler ECOTECH Personal Sampler ECOTECH Personal Sampler ECOTECH Personal Sampler Rotar Meter (Sr. No.: 925-DTA-2014 Rotar No.: 925-DTA-2014 Rotar Meter (Sr. No.: 37/050) (gl - 3 LPM) Daste of calibration: 30/05/2017 Daste of calibration: 20/05/2017 23:45 to 00:45 Zas:45 to 00:45 TWA Sampling Contamination Itaminant Mirborne Instrument No. of Ration Average (Aration Reference Reference Sampling Contamination Itaminant Used Instrument No. of Ration Samples Sampling Instrument No. of Ration Issocnad Reference Samples Sample Analyseri Instrument No. of Ration Reference Samples Sample Assocnad Stepan Reference Reference Samples Samples Samples Poust No. of Ration Samples Samples Samples Samples Samples Samples Samples	Minimum 10 m distance ECOTECH Personal Sampler FCOTECH Personal Sampler APM 800,5r.No.i 326-DTA-2014 Minimum 10 Personal Sampler APM 800,5r.No.i 327/02103 Rota Meters (53. No.i 327/02103) Distance Contamination: 30/02/016 Distance Contamination: 30/02/016 Dist Dist of calibration: 29/05/2017 Dist of calibration: 29/05/2017 23:45 to 00:45 TVM 23:45 to 00:45 TVM Dist Distroment Laminant Mornber of Instrument Dist Dist Dist Dist Dist Dist 0.52:00 Dist 0.55:20 Dist 0.55:20 Dist 0.11 Dist 0.15: Dist 0.15: Antioned Simples Sampling Simples Monoxide as Dist I Dist 0.15: Articlaite 0.15: Articlaite 0.11: Dist 0.15: Anticlaite 0.11: Dist 0.15: Anticlaite 0.11: Dist 10: Anticlaite 0.10: Dist 10: Articlaite 0.11: Dist 10: Articlaite 0.11: Monoxide as Distant	ี เกิน	epartment/Plant.		Near RF Metal	l Furnaci	Ð		- - -		т ч.	•	•
Rotar Meter (Sr. No.13/1010) (0 - 3 i PM) Rotar Meter (Sr. No.13/1010) (0 - 3 i PM) Date of Calibration: 30/05/2016 Due Date of Calibration: 29/05/2017 23:45 to 00:45 23:45 to 00:45 Zampling Anthome TWA Contamination Contamination TWA Number of tartion instrument No. of Range Average (Argination instrument tranination Number of tartion Anthome Contamination TWA Number of tartion Number of tartion instrument No. of Range Average (Argination instrontioned tartion instrontioned tartion Number of tartion Sampling Sampling Number of tartion Number of tartion Number of tartion Signature tartion Sampling Instrument No. of Range Average (Argination instrontioned tartion Signature tartion Samples Samples Average (Argination instrontioned tartion instrontioned tartion Number of tartion Signature tartion 3 4 5 6 7 8 9 10 11 12 Dust 1 0.5-20 0.316 15, 15, 05 person Number of tartion Monotide as Antiona 1 0.15 15, 10 11	Rota Meter (Sr. No.13/1010) (0 – 3 i.P.M) Date of Calibration: 30/05/2016 Date of Calibration: 30/05/2016 Due Date of Calibration: 29/05/2017 23:45 to 00:45 Z:45 to 00:45 Due Date of Calibration: 29/05/2017 Number of Level 23:45 to 00:45 Z:45 to 00:45 23:45 to 00:45 Z:45 to 00:45 23:45 to 00:45 Z:46 to 00:45 23:45 to 00:45 Z:47 to 00:45 Sampling Level Contamination Level Contamination used Sampling Level No. of Range Range samples Reference samples Reference 3 4 5 6 7 8 9 10 1 0:5-20 0:14.1 0:15 1 0:14 1 0:15 20 Bandon 1 11 1 12 1 Maiver 1 10 1 10 1 Maiver 1 10 1 Maiver 1 Maiver 1 Maiver 1 Maiver	Eo	source		Minimu ECOTECH APM BOD	m 10 m c H Personi LSr.No.: 9	listance al Sampler 226-DTA-201						
23:45 to 00:45 Z3:45 to 00:45 Airborne Twa Number of Number of dentified sampling contamination Twa Number of signature dentified instrument No. of Rainge Average (As given ntantication ntaminant used samples Average (As given ntethod instrument samples a 4 5 6 7 8 9 10 11 12 bust Dust 1 0.5-20 0.916 15, 15 10 11 12 Monoxide as Monoxide as Monoxide as Sampling Mailyeer An Mailyeer Number	Airborne TWA Number of concentration Number of person Airborne TWA Number of concentration Number of person concentration Average (Asgiven concentration concentration Reference exposed c) Range Average (Asgiven concentration concentration concentration concentration concentration concentration concentration concentration concentration Reference exposed Signature concentration concentrateration concentration concentration concentration concentr	nt Us	ed		Rota Me Date of Due Dat	ter (Sr. N calibrati te of cali	o.13/1010) on: 30/05/ bration: 29	(а-з црм) 2016 /05/2017					
Identified IdentifiedSampling instrument instrument usedAirborne ContaminationTWANumber of concen- trationNumber of servoidNumber of ispersonIdentifiedSampling instrument usedContamination instrument usedContamination samplesTWANumber of scheduleNumber of ispersonSignature isperson3456789101112344567891011121Dust1ng/m³ng/m³ng/m³ng/m³ng/m³Number2Monoxide asbigital das0.1-10.15440 mg/m³ng/m³Number2Monoxide asbigital das10.1-10.15440 mg/m³ng/m³Number	Airbornie TWA Number of workers Number of signature Signature ontamination concen- tration Reference at the monitored workers Signature tool Ration Reference at the monitored workers Signature tool Ration tration at the at the monitored Number of at the monitored Signature tool Ration tration at the period at the monitored Signature tool Ration at the monitored tration at the monitored tration tool 0.5-20 0.916 15 10 11 12 1 mg/m³ mg/m³ tration tration At Number 1 0.1-1 0.15 t4f0 mg/m³ Digitid Gas Sampling Number stry, # factory act innit, STEL Stort Term Exposure Limit At Number Number	Timt	e in Hrs.		23:45 tx	0 00:45							
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3456789.1011121Dust0.5-200.916 15 , 15 , 15 , 10 11 12 1Dust0.5-200.916 15 , 15 , 10 11 12 1ParticulateCollector1 mg/m^3 mg/m^3 mg/m^3 ng/m^3 2Monoxide asAnalyzer/1 mg/m^3 mg/m^3 ng/m^3 ng/m^3 2Monoxide as mg/m^3 mg/m^3 ng/m^3 ng/m^3 ng/m^3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Location/ Ope0ration Mentioned	- • •	Sampling instrument used	No. of samples	Range	Average	tration (As given In second	Reference method	exposed at the location being	Reithariss	of person taking samples	Name (in block letter)
1 Dust 1 Dust 1 Dust 1 Dust 1 Dust 0.5-20 0.916 15,* 15,5182 05 person 1 Particulate Collector 1 mg/m³ mg/m³ mg/m³ mg/m³ Morking 2 Monoxide as Analyzer/ Bladder 1 0.1-1 0.15 440 mg/m³ Digital Gas Sampling	1 0.5-20 0.916 15, mg/m³ is 5182 .05 person 1 mg/m³ mg/m³ mg/m³ mg/m³ mg/m³ 1 mg/m³ mg/m³ 0.1-1 0.15 440 mg/m³ 0.1-1 1 mg/m³ mg/m³ Digital Gas Sampling Mu 1 mg/m³ mg/m³ STEL Analyzer Time 1 mg/m³ STEL Analyzer Time Mu		- -	4	un	9	4	- B	6	monitored 10	11	12	13
CarbonDigital Gas0.1-10.1-10.1-5440 mg/m³Digital GasSampling2Monoxide asAnalyzer1mg/m³mg/m³STELAnalyzerTime	0.1-1 0.1-1 0.15 440 mg/m³ Digital Gas Sampling 1 mg/m³ STEL Analyzer Time 1 stry, # factory act limit, STEL: Short Term Exposure Limit Limit Limit Limit			Dust Collector	1	0.5-20 mg/m ³	0.916 mg/m ³	15. 15	IS 5182 (Part IV)	.05 person working		NWKW	Mr. Mukesh
	istry, # Tactory act limit, STEL: Short Term Exposure Limit		<u> </u>	Digital Gas Analyzer/ Bladder		0.1-1 mg/m ³		440 mg/m ³ STEL	Digital Gas Analyzer	Sampling Time			Patel
				•		•							

FORM NO. 37

ZOLAU (CONTREORATORIES PRAND

TEST CERTIFICATE FOR HEAT STRESS MONITORING

Customer's Name and Address :	QR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT, LTD, HAZIRA MANUFACTURING COMPLEX,	Test Report No. : PL/LT 0063
POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date : 20/05/2017
INDIA. PIN CODE - 394510.	Customer's Ref. : W.D. No. FLS001001

HEAT STRESS RESULTS

Sr. No.	Monitoring Date	Sampling Time Hr.	Sampling Location	Temperature 9C	Humidity %	Heat Stress Index
1	12/05/2017	23:30	Lime Charging System	30	44	35
2	12/05/2017	23:45	RH Furnace Area	29	42	32
3	12/05/2017	23:00	EAF Platform Area	30	43	34

A		이제 사이는 이 가장에는 것이다. 이 것이 않는 것 같은 것이 나는 것 같이 가지 않는 것이다.
	Humidex 1	
÷.,	General Controls	Action Recommended
	30 - 37	
÷ .		Warn foe symptoms and extra water
· · ·	1 <u>1 - 19</u> 17 - 1917 - 1917 - 1918 - 19 38 - 39 761 1917 - 2019 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917	
* N. E.	And a second	Work with 15 minutes/hour relief
N. 1		Work with 3D minutes/hour relief
	42 - 44	
12.1		Work with 45 minutes/hour relief
		Hazardous to continue physical activity
. · ·	*for Humidea ranges above 45, heat stress should be managed as per the AOGIH TLV	

All contrast calles above his, near speed should be managed as per the AOSTH TLY #Healt Struss Method as per Occupational Health and Safety Counce of Ontatio rolifort

H.T. Shafi Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

• FSSAI Approved Lab • Recognized by Mare This report is subject to terms & conditions mentioned overlag range 180 0001 : 2008 Sec. 12 of Environmental (Protection) Act-1886 schedule if auditor

Head Office : 544, Belgium Tower, Ring Road, Opp. Linear Bus Stand, Surai-395003. (Guj.), Tele : (0261) 2455751, 2601224, 2601106 Branch Office : Piol No. 5/6, Pollucon House, Opp. Belaji Industrial Soc., Old Shanlinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surai-3905007. Tele : (0281) 2635750-2635761 E-mail: pollucon@gmail.com; Website : www.pollucontab.com POLLUCON LABORATORIES PVT. LTD

TEST CERTIFICATE FOR ILLUMINATION LUX

Customer's Name and Address :	QR/5.10/32C Page: 1 of 1
M/s. L&T SPECIAL STEEL & HEAVY FORGINGS HAZIRA MANUFACTURING COMPLEX,	Test Report No. : PL/LT 0080
POST: BHATA, DIST.SURAT,	Issue Date ; 06/07/2017
GUJARAT, INDIA.	Customer's Ref. : PO NO. FL5000384 DT.08.07.2013
Date of Sampling : As per table Sampling By : Pollucon Laboratories Pvt. I Sampling Location : As per table	

Instrument Used

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20 Ster Madia and 1884 and 1997 S fa (1993) (1993) (to es

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Digital Lux Meter Sr No: 5429938, MODEL: LX 101B , MAKE : METEK Date of Calibration: 05.12.2016 Due Date of Calibration:04.12.2017

SR NO	NAME OF THE LOCATION*	SAMPLING DATE	SAMPLING TIME (Hr.)	OBSERVATION Illumination Lux (lx)
	SMS Area Near Scrap Storage	23/06/2017	10:10	260
2	Near V/D Moulding Area	23/06/2017	10:45	320
3	Near Reheating Furnace Area	23/06/2017	11:30	286
_ 4	WTP (Water Treatment Plant)	23/06/2017	12:05	208
5	Boiler Area	23/06/2017	12:35	342
6	Compressor Area	23/06/2017	13:00	276

j.		
2	Location / Artivity Table 2.3.3. Minimum Limits For Workplace Illumination Intensity	· · · · · · · · · · · · · · · · · · ·
. •	Location / Activity	
A	Emergency light	Light Intensity
-	Outdoor non working areas	10 lux
	Simple orientation and temporary visits (machine storage, garage, warehouse)	29 lux
2	Workspace with occasional visual tasks only (corridors, stairways, lobby, elevator, auditorium, etc.)	50 lux
ੁੱ	Medium precision work (simple assembly, rough machine works, weiding, packing, etc.)	100 lux
e.	Precision work (reading, implemented difficult according, contrast, weight, packing, etc.)	200 lux
	Precision work (reading, moderately difficult assembly, sorting, checking, packing, etc.) High precision work (difficult assembly, sewing, checking, checking, and machine works, etc.), offices.	500 lux

nbly, sewing, color inspection, fine sorting etc.)

As per IFC International Finance Corporation World Bank Group Environmental, Health, and Safety (EHS) Guidelines GENERAL EHS GUIDELINES: OCCUPATIONAL HEALTH AND SAFETY, APRIL 30, 2007 # monitoring Location according by client. Service Service

Saykan Atsusari n ett until hud NE CALLE ON MAR Maria Maria N MARKAGEL

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H.T. Shah un en ares és : A régimé à regit Lab Manager

The Print Price

Dr. Arun Bajpai Lab Manager (Q) ---

Recognised by MoER, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 Note: This report is subject to terms & conditions mentioned overleaf •FSSAI Approved Lab • Recognised by MoEF New Delhi Under ● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 9001 : 2008

Head Office : 544, Belgium Tower, Ring Road, Opp. Linear Bus Stand, Surat-395003. (Guj.) Tele : (0261) 2455751, 2601224, 2601106 Branch Office 1-Plot No. 5/6. Polucon House, Opp. Balaji Industrial Soc., Old Shantinath Slik Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-390500 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

ME AND ADDRESS: ME AND ADDRESS: ent/Plant. amplined instrume traminant bust Particulate Collecto Carbon Digital Ga Monoxide as Analyzer Conto Digital Ga Monoxide as Analyzer Limit (PEL) for General Industry, a	FORM NO. 37 (Prescribed under Rule 12-B) of monitoring of working environment required under Section 7-A (a) (e). & T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX,	POST: BHATA, DIST: SURAT, GUJARAT, INDIA. Issue Date: 06.07.2017 Sampling Date: 23.06.2017 Lime Charoing System	Lime Minimum 10 m distance	Politech Model No. PEM-HAS-113 Sr. Noi 308 Date of calibration: 05/04/2017 Due Date of calibration : 04/04/2018 23:45 to 00:30	AirborneTwANumber ofContaminationTwANumber ofContaminationconcentrationNo. ofAverageNo. ofRangeRangeAverageInmethodIninethodSchedulebeingSchedulebeingInmonitoredInmonitored	5 6 7 8 9 10 11 12 13	1 0.5-20 0.951 15* IS 5182 06 person 1 mg/m ³ mg/m ³ mg/m ³ Part IV) working 1 0.1-1 0.23 440 mg/m ³ Digital Gas Sampling 1 mg/m ³ mg/m ³ STEL Anilyzer Time	ctory act limit.STEL : Short Term Exposure Limit	
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	Register containing parti	f the Department/Plant.	Raw Material Distance from source	Instrument Used Sampling Time in Hrs.			Dust Particulate Carbon Monoxide as CO	A Permissible Exposure Limit (PEL) for General In	

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		112		· · · · · · · · · · · · · · · · · · ·		•		, Memory	(in block letter)		13	MR. MUKESH	PATEL			-	
	(a) (e).	king complex, Issue Date: 06.07.2017 Sampling Date: 23.06.2017		. •		- 		Signature	of person taking samples		12	A Ca				· .	
	on 7-A (MPLEX, ue Date ng Date		 					Remarks		11	-	l 				
	nder Secti	TURING COI ISSI Samplii	• • • •			1	g	Number of workers	exposed at the location heind	monitored	10	03 person working	AL Sampling Time	· · ·	: ⁻		· · · ·
	equired u	MANUFAC		· *	208				Referenc e method		6	IS 5182 (Part IV)	Digital Gas Analyzer		•		
31	e 12-B) vironment r	HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, 24T, GUJARAT, INDIA. Issue Da Sampling Da	rea	 - - -	Politech Model No. PEM-HAS-113 Sr. No: 208 Date of calibration: 05/04/2017			TWA concen-	tration (As given In second	schedule	Ø	15* mg/m ³	440 mg/m ³ STEL		•	•	
FORM NO. 37	l under Rule 12-B) vorking environr		Platform Area	n distance	Politech Model No. PEM-HAS-113 S Date of calibration: 05/04/2017				Average		7	1.232 mg/m ³	0.18 mg/m ³	8			
	(Prescribed oring of w	L & T SPECIAL STEEL & POST: BHATA, DIST: SUI	SMS Area EAF	 Minimum 10 m	Politech Model I Date of calibra	00:10 to 00:45		Airborne Contamination	Range		υ	0.5-20 mg/m ³	0.1-1 mg/m ³	EL: Short Term	•		
	f monite (T SPECIA T, BHATA	SMS	I. M	Polite Date			Airb Contan	No, of samples	•	ر مر		-	tory act limit,51	•		· · · ·
	ticulars o	DRESS: L & POS			•				Sampling instrument used		4	Dust Collector	Digital Gas Analyzer/ Bladder	eral Industry, # fac	• • •	·. ·	
	(Prescribed under Rule 12-B) Register containing particulars of monitoring of working environment required under Section 7-A (a) (e).	CUSTOMER'S NAME AND ADDRESS: L & T SPECIAL STEEL & POST; BHATA, DIST; SU	nent/Plant.				-	· · ·	Identified contaminant		m	Dust Particulate	Carbon Monoxide as	*as per OSHA Permissible Exposure Limit (PEL) for General Industry, # factory act limit.STEL : Short Term			•
	ter co	ER'S'N	Departr		sed au	le in Hr:	:	· ·		. , 	<u>.</u>	H	7	sible Expos	-		•••
	Regis	CUSTOM	Name of the Department/Plant.	Raw Material Dictance from cource	Instrument Used	Sampling Time in Hrs.		· · ·	Sr. Location/ No Mentioned	· · ·	1	SMS Area	Platform	t as per OSHA Permis	•	· · · · · · · · · · · · · · · · · · ·	्र
	<u></u>		<u> </u>		<u>- 1</u>	<u> </u>			Q_Z		<u> </u>	· <u>(</u>	<u></u>	<u> </u>			<u></u>

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	2017	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			Name (in block letter)	13	MR, MUKESH		
(a) (e).	LING COMPLEX, Issue Date: 06.07.2017 Sampling Date: 23.06.2017	X		· · ·	Sinnati Ire	of person taking samples	12	60		
ion 7-A	MPLEX, ue Date ng Date					Remarks	Ħ	••••		-
nder Sect	rur. Iss Sampli				Number of workers	exposed at the location being monitored	10	05 person working Af	Sampling Time	
aduired u	MANUFAC					Reference method	6	IS 5182 (Part IV)	Digital Gas Analyzer Limit	
FORM NO. 37 FORM NO. 37 (Prescribed under Rule 12-B) (Prescribed under Rule 12-B) Register containing particulars of monitoring of working environment required under Section 7-A (a) (e).	HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, tat, gujarajt, india. Issue Dai Sampling Dai		4 0 - 3 LPM) 2016 05/2017		TWA concen-	tration (As given In second schedule	ø	15* mg/m ³	0.15 440 mg/m ³ Dig mg/m ³ STEL Av limit: STEL: Short Term Exposure Limit	
FORM NO. 37 (Prescribed under Rule 12-B) oring of working environ	HEAVY FORGIENS, HA RAT, GUJARAT, INDIA.	istance	ECOTECH Personal Sampler APM 800,Sr.No.: 926-DTA-2014 Rota Meter (Sr. No.13/1010) (0 – 3 LPM Date of calibration: 30/05/2016 Due Date of calibration: 29/05/2017	· · · · · · · · · · · · · · · · · · ·		Average	7	1.056 mg/m ³	0.15 mg/m ³ limit. STEL: Sho	
rescribed	SPECIAL STEEL & I BHATA, DIST: SUF	Metal Minimum 10 m distance	ECOTECH Persona APM 800,Sr.No.: 93 Rota Meter (Sr. No Date of calibratio Due Date of calib	23:45	orne ination	Range	9	0.5-20 mg/m ³	0.1-1 mg/m ³ # factory act	ומרוטו א מיני
monitol	L & T SPECIAL STEEL & I POST: BHATA, DIST: SUE Noar DH Firmace	Metal Minimur	ECOTECH APM 800,5 Rota Mete Date of G Due Date	23:15 to 23:45	Airborne Contamination	No. of samples	ы	-		
ticulars of	RESS. L & T					Sampling instrument used	4	Dust Collector	Digital Gas Analyzer/ Bladder	JEL) TOT Genera
taining par	CUSTOMER'S NAME AND ADDRESS: I. & T SPECIAL STEEL & POST: BHATA, DIST: SU	enyranu				Identified contaminant	[m	Dust Particulate	Carbon Monoxide as CO	*as per OSHA Permissible Exposure Limit (PEL) tor General Indusu y,
er con	R'S NA	source	Ŗ	in Hrs.		-	· . :	-	7	missible
Regist	CUSTOME	Name or the Departmenty man. Raw Material Distance from source	Instrument Used	Sampling Time in Hrs.		Location/ Ope0ration Mentioned	2	Noor DH	Furnace	per OSHA Pen
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	\ (a) (e).		sampling Date: 12.07.2017				• • • •	• . •		Signature of person taking samples	12	2°	L'W		
•• •	tion 7-4	MPLEX,	ing Dat			•	•	· · ·		Remarks	11		-		
	under Sec	CTURING CC	Sampli				· · · ·		Number of workers	exposed at the location being	monitored 10	06 person working	At Sampling Time		5 PV7
a	required 1	a manufa(Sr. No: 308 7	8]	· ·		Reference	D.	IS 5182 (Part IV)	Digital Gas Analyzer	ABORATES.	SURAT
. 37	escribed under Rule 12-B) ing of working environment required under Section 7-A (a) (e).	STEEL & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, DIST: SURAT, GUJARAT, INDIA.				ce HAS-113 Sr. N i/04/2017	Date of calibration : 04/04/2018 5 TO 23:55		TWA concen-	tration (As given In second	30100000	15* mg/m ³	440 mg/m ³ STEL		
FORM NO. 37	escribed under Rule 12-B) ng of working environr	L & HEAVY FORGIENS, HA SURAT, GUJARAT, INDIA	· · ·	Charging System		Minimum 10 m distance Politech Model No. PEM-HAS-113 S Date of calibration: 05/04/2017	of calibration 23:55		 	Average	2	1.054 mg/m ³	0.22 mg/m ³	i Exposure Limite	
		AL STEEL A, DIST: S		Lime Char	Lime	Internation Altech Mo ate of ca	Due Date of cal 23:35 TO 23:55	•	Airborne Contamination	Range	9	0.5-20 mg/m ³	0.1-1 mg/m ³	EL : Short Tern	•
	of monit	L & T SPECIAL STEE Post: Bhata, dist:	н 19 19	3		ΣĂĞ	ο X		Airborn Contamina	No. of samples	2		1	ory act limit,STI	;
	articulars (DRESS: L &	•		· · · · ·		· · ·			Sampling instrument used	4	Dust Collector	Digital Gas Analyzer/ Bladder	eral Industry, # fact	
•	(Pr Register containing particulars of monitori	CUSTUMERS NAME AND ADDRESS: L & T SPECIAL (POST: BHATA, L	• •	rtment/Plant.	đ	ų	lrs.		•	Identified contaminant	m	, Dust Particulate	Carbon Monoxide as CO	es per OSHA Permissible Exposure Limit (PEL) for General Industry, # factory act limit, STEL : Short Term Exposure Limit.	
	Register	usi Uimerks		Name of the Department/Plant.	Raw Material Distance from source	Instrument Used	Sampling Time in Hrs.			Location/ Operation Mentioned	7	Lime 1 Charoing	System 2	SHA Permissible Expr	
•	(ر : :		Name	Raw Dista	Instru	Samp			ມ <u>ບ</u> <u>></u>				D Jad se,	

FORM NO. 37 FORM NO. 37 (Prescribed under Rule 12-B) Register contraining particulars of monitoring of vorking environment required under Section 7-A (a) (a) CUSTOMERS NAME AND ADDRESS: L& TSPECIAL STEEL & HEAVY FORGERSS, HAZTRA MANUFACTURING COMPLEX, POST: BHATA, DIST: SURAT, GUJARAT, NDJA. SINS THE AND ADDRESS: L& TSPECIAL STEEL & HEAVY FORGERSS, HAZTRA MANUFACTURING COMPLEX, POST: BHATA, DIST: SURAT, GUJARAT, NDJA. SINS THE AND ADDRESS: L& TSPECIAL STEEL & HEAVY FORGERSS, HAZTRA MANUFACTURING COMPLEX, POST: BHATA, DIST: SURAT, GUJARAT, NDJA. SINS THE AND ADDRESS: L& TSPECIAL STEEL & HEAVY FORGERSS, HAZTRA MANUFACTURING COMPLEX, POST: BHATA, DIST FORMAT, NDJA. SINS THE AND ADDRESS: L& TSPECIAL STEEL & HEAVY FORGERSS, HAZTRA MANUFACTURING COMPLEX, POST: BHATA, DIST FORGERSS, HAZTRA MANUFACTURING COMPLEX, POST: BHATA, DIST FORGER AND ADDRESS Instrument Used DIST OR COLSPON Sampling Time In Hrs. COLSPON OCILIATION CONSTANT, NO.2 Sampling Time In Hrs. COLSPON COLDION COLDION COLDION COLDION COLDION COLDION COLDION COLDION COLDION	<u>.</u>	· · · · · · · · · · · · · · · · · · ·	· · ·				· · · · · · · · · · · · · · · · · · ·		Ţ]
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Structure CC	equired u	MANUFAC		208			Referenc e method	6	IS 5182 (Part IV)	Digital Gas Analyzer	
Structure CC	37 e 12-8) wironment r	GIENS, HAZIRA AT, INDIA.	82	S-113 Sr. No: 7 4/2017 04/04/2018		-UMA Concen-	tration (As given In second schedule	8	15* mg/m ³	440 mg/m ³ STEL	
Structure CC	HORM NO. d under Rul working er	HEAVY FOR	· Platform A	n distance No. PEM-HA ation: 05/0 alibration: (ß		Average	7	1.292 mg/m ³	0.21 mg/m ³	Exposure Limit
Structure CC	Prescribe		Area EAF	num 10 i sch Model of calibr Date of c	100 OT 0	orne nination	Range	6	0.5-20 mg/m³	0.1-1 mg/m ³	
Structure CC	, f monito	T SPECIA T: BHATA	SMS I	Mínir Polite Date Due I	00:31	Airbu Contarr	No. of samples	5	1	, -1	tory act limit,STE
Structure CC	rticulars o	DRESS: L & Pos					Sampling instrument used	4	Dust Collector	Digital Gas Analyzer/ Bladder	eral Industry, # fact
Structure CC	ontaining pa	IAME AND ADI	ment/Plant.	U	Ş		Identified contaminant	3	Dust Particulate	Carbon Monoxide as CO	sure Limit (PEL) for Gend
Structure CC	ēro	R'S N	epart	pa	in Hr			-	. . –	N	ie Expos
Rai Nai Sar Nai Ins	Regist	CUSTOME	ne of the D v Material	tance from trument Us	npling Time		Location/ Operation Mentioned	2	SMS Area EAF	Platform Area	er OSHA Permissit
			Nai Rav	Dis Ins	Sar		ч. Ч.	⊷			*as p

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FORM NO. 37

FORM NO. 37

Register containing particulars of monitoring of working environment required under Section 7-A (a) (e). Prescribed under Rule 12-B)

CUSTOMER'S NAME AND ADDRESS: L& T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX,

POST: BHATA, DIST: SURAT, GUJARAT, INDIA.

Sampling Date: 12.07.2017

Near RH Furnace Metal

Name of the Department/Plant.

Distance from source

Raw Material

Instrument Used

Minimum 10 m distance

Rota Meter (Sr. No.13/1010) (0 – 3 LPM) Due Date of calibration: 29/05/2018 Date of calibration: 30/05/2017 APM 800, Sr. No.: 926-DTA-2014 **ECOTECH** Personal Sampler

23:15 TO 24:45

Sampling Time in Hrs.

MR. MUKESH I MANNE Signature of person samples taking 12 Remarks 믭 Number of nonitored 05 person working exposed. Sampling workers location at the being Time NOTE IN 9 Åt. Reference. Digital Gas Analyzer IS 5182 (Part IV) method თ tration (As given 440 mg/m³ . _Em/gm concenschedule second **AWT** STEL . م 님 ώ Average mg/m³ mg/m³ 0.8860.16 Ņ mg/m³ mg/m³ Range 0.5-20 0.1-1 Contamination . ص Airborne samples No. of 'n , 1 instrument Dīgital Gas Analyzer/ Bladder Sampling Collector used Dust 4 Monoxide as Particulate Carbon contaminant Dust Identified 8 ń **OpeOration** Mentioned Furnace Location/ Near RH N S. S ᠇᠇

(in block Name

letter)

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PATEL.

PV;

SURAT

WCON

*as per OSHA Permissible Exposure Limit (PEL) for General Industry, # factory act limit, STEL: Short Term Exposure Limit

· · · · ·	2017					Name (in block letter)	13	MR	PATEL	
(a) (e).	a: 11.0 8.			•		Signature of person taking samples	12	Č	}	SPVT. TID
ion 7-A	MPLEX, ng Dati	· .				Remarks	11			LIVIANS NC
under Sect	sturing co Sampli		· · ·			Number of workers exposed at the location being monitored	10	06 person working	Sampling Time	VINC3
required .	A MANUFAC		0: 308	81		Reference	6	IS 5182 (Part IV)	Digital Gas Analyzer	Limit
e 12-B) ivironment i	GIENS, HAZIR AT, INDIA.		113 ST13	/04/2017 1:04/04/201		TWA concen- tration (As given In second schedule	∞.	15* mg/m ³	440 mg/m ³ STEL	/ act limit, STEL: Short Term Exposure Limit
ed under Rul working er	& HEAVY FOR URAT, GUJAR	ging System	10 m distanc del No. PEM-I	libration: 05 of calibration		Average	2	1.064 mg/m ³	0.25 mg/m ³	t limit, STEL: Sho
Prescrib ring of	L STEEL , DIST: S	ne Char ne		te of ca le Date		orne ination Range	e	0.5-20 · тд/т ³	0.1-1 mg/m ³	
of monite	T SPECIA 5T: BHATA		Μ		3	Airbo Contam No. of samples	5	1 -1	, , 1	l Industry, #
irtīculars c	DKESS: L & POS		•			Sampling instrumerit used	4	Dust Collector	Digital Gas Analyzer/ Bladder	PEL) for Genera
sr containing pe	cs name and al	partment/Plant.	ource			Identified contaminant	60	1 Dust Particulate	2 Monoxide as CO	*as per OSHA Permissible Exposure Limit (PEL) for General Industry, # factor
Registe	CUS I UMEH	Name of the Dey Raw Material	Vistance from s	Instrument Used		Sr. Location/ No Mentioned	1 2	, Lime	System	is per OSHA Permi
	(Prescribed under Rule 12-B) Register containing particulars of monitoring of working environment required under Section 7-A (a) (e).		Ster containing particulars of monitoring of working environment required und IER'S NAME AND ADDRESS: L & T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTUR POST: BHATA, DIST: SURAT, GUJARAT, INDIA. Department/Plant. Lime Charging System Lime	r containing particulars of monitoring of working environment required und S NAME AND ADDRESS: L & T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTUR POST: BHATA, DIST: SURAT, GUJARAT, INDIA. Antment/Plant. Lime Charging System urce Uirce Minimum 10 m distance Solution and Strance Politech Model No. PEM-HAS-113 Sr. No: 308	(Prescribed under Rule 12-B) Itaining particulars of monitoring of working environment required und ME AND ADDRESS: L & T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTUR POST: BHATA, DIST: SURAT, GUJARAT, INDIA. ent/Plant. 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	S NAME AND ADD artment/Plant. urce urce Intra- Intra- Identified contaminant	RESS: L&T POST: Samuling	SPECIAL S SPECIAL S SMS AI SMS AI Ninimi Polited Due Di Due Di Alirbor	street & H Street & H rea EAF J urm 10 m h Model N f calibra ate of ca TO 23:22	HEAVY FORG WT, GUJAR Platform Au distance Vo. PEM-HA tion: 05/0 fibration: 0 5	itens, Hazira Vt, Inbia. rea 5-113 Sr. No: 7 4/2017 04/04/2018	MANUFAC 208	Sampli	MPLEX, ng Date	: 11.08.2	
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kaw Material Distance from sou Instrument Used Sartipling Time in Location/ Mentioned Mentioned	urce Hrs. Identified contaminant	Samo Line Samo	Minimu Politeci Date o Due Da 22:25	um 10 m h Model N f calibra ate of ca TO 23:21	t distance 40. PEM-HAS tion: 05/0 ⁴ libration: 0 5	5-113 Sr. No: 7 4/2017 14/04/2018	803				
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Sampling Time in Location/ Mentioned 1 2	Hrs. Identified contaminant	Samoling	22:25	TO 23:2!	ß						
	Identified contaminant	Samoling	Airbon								
	Identified contaminant	Samoling	Airbon				· ·				
	Identified contaminant	Sampling		Airborne Contamination		TWA concen-		Number of workers			
			No. of	Range	Average	tration (As given In	Referenc e method	exposed at the location	Remarks	of person taking samples	Name (in block letter)
1 2		,,	samples	, , , , , , , , , , , , , , , , , , ,	- - - -	second schedule		being monitored		-	
	5	4	ы	9	7	8	6	10	11	12	13
SMS Area 1	1 Dust Particulate	Dust Collector	++	0.5-20 mg/m ³	1.252 mg/m ³	15* mg/m ³	IS 5182 (Part IV)	03 person working		è	MR. MR.
Platform Area 2	2. Monoxide as	Digital Gas Analyzer/ Bladder	F	0.1-1 mg/m ³	0.21 mg/m ³	440 mg/m ³ STEL	Digital Gas Analyzer	Sampling Time)	PATEL
as per OSHA Permiss	*as per OSHA Permissible Exposure Limit (PEL) for General Industry,	EL) for General I	1 #	factory act limit, STE		Short Terrn Exposure	Limit	· ·	CORATOR C	ATOPET	· · · · · · · · · · · · · · · · · · ·
		· · · ·	·	· · · · · ·	· · · · ·	•	- 	•	WT NC	SURAT JA	
									J.	10 + HOL	<u></u>
	· ·		-			- '.			/	}	·

Register	•		•		FORM NO. 37	37 (· · · · ·			• . 		
	(Presc Register containing particulars of monitoring	ticulars of	(P monitor		ibed under Rule 12-B) of working environ	ibed under Rule 12-B) of working environment required under Section 7-A (a) (e).	iquired ui	nder Secti	on 7-A ((a) (e)	· · · · · · · · · · · · · · · · · · ·	
CUSTOMER"	CUSTOMER'S NAME AND ADDRESS: I. & T SPECIAL STEE POST: BHATA, DIST:	DRESS: L. & 1 Post	L & T SPECIAL STEE POST: BHATA, DIST		. & HEAVY FORGIENS, HA SURAT, GUJARAT, INDIA.	L & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, SURAT, GUJARAT, INDIA.	MANUFACI	ruring cor	ирцех,	- 		· • • •
			• •					Samplii	ng Date	Sampling Date: 11.08.2017	1017	
Name of the Department/Plant.	artment/Plant.		Near RH Furr	Furnace								:
Raw Material	· · ·		Metal		•		••	•		· · · · · · · · · · · · · · · · · · ·		
Distance from source	urce		Minimum 10		m distance		•			• .	· · ·	· .
	• • •		ECOTECH Per APM 800, Sr. No		sonal Sampler o.: 926-DTA-2014			•	· ·		· · · · · · · · · · · · · · · · · · ·	
Instrument Used			Rota Meter (Si Date of calibi Due Date of c		r. No.13/1010) (0 – 3 LPM) ration: 30/05/2017 calibration: 29/05/2018	0 – 3 LPM) 2017 05/2018			· . . ·			
Sampling Time in Hrs.	H S H		23:20 TO 00:50) 00:50					- 		· ·	
			Airborne Contaminatior	rne nation		TWA concen-		Number of workers		Sinnature		- T
Sr. Location/ No Mentioned	Identified contaminant	Sampling instrument used	No. of samples	Range	Average	tration (As given In second schedule	Reference method	exposed at the location being monitored	Remarks	of person taking samples	(in block letter)	u Ž T
1 2	m	4	v ا	ۍ ا	7	8	6	10	11	12	- <u>F1</u> -	
Near RH	1 Dust Particulate	Dust Collector		0.5-20 mg/m ³	1.148 тд/т ³	15* mg/m ³	IS 5182 (Part IV)	05 person working	· · ·	Ì	MR, MUKESH	(ESH
Гитасе	Z Monoxide as CO.	Digital Gas Analyzer/ Bladder	-	0.1-1 т9/т ³	0.16 mg/m ³	L 0.16 440 mg/m ³ Dig 1 ³ mg/m ³ STEL A	Digital Gás Analyzer		en anota	-		.

TEST CERTIFICATE FOR ILLUMINATION LUX

Customer's Name and Address :	· . 	Page: 1 of 1
M/s. L&T SPECIAL STEEL & HEAVY FORGINGS	Test Report No.	PL/ LT 0105
HAZIRA MANUFACTURING COMPLEX, POST: BHATA, DIST.SURAT,	Issue Date :	29/09/2017
GUJARAT, INDIA.	Customer's Ref.	W.O:FLS001153 DTD:20.06.2017

Date of Sampling	. :	06/09/2017	•	• .	
Sampling By	:	Pollucon Laboratories Pvt. Ltd.	•		
Sampling Location	:	As per table			
Instrument Used	:	Digital Lux Meter Sr No: S429938, MODEL: LX 101B , M Date of Calibration: 05.12,2016 Due Date of Calibration:04.12.2017	AKE : METEK		

		RESULT TABLE	·· ·	· · · · · · · · · · · · · · · · · · ·
SR NO	NAME OF THE LOCATION#	SAMPLING DATE	SAMPLING TIME (Hr.)	OBSERVATION Illumination Lux (lx)
1	SMS Area Near Scrap Storage	06/09/2017	10:35	320
2 .	Near V/D Moulding Area	06/09/2017	10:45	345
3	Near Reheating Furnace Area	06/09/2017	11:00	280
<u>:</u> 4.	WTP (Water Treatment Plant)	05/09/2017	11:10	240
5	Boiler Area	06/09/2017	11:25	350
6	Compressor Area	06/09/2017	11:40	270

	LIMIT*	
	Table 2,3,3. Minimum Limits For Workplace Illumination Intensity	· · ·
•	Location / Activity	Light Intensity
	Emergency light	10 lux
	Outdoor non working areas	20 lux
	Simple orientation and temporary visits (machine storage, garage, warehouse)	50 lux
	Workspace with occasional visual tasks only (corridors, stalrways, lobby, elevator, auditorium, etc.)	100 Jux
1	Medium precision work (simple assembly, rough machine works, welding, packing, etc.)	200 lux
÷	Precision work (reading, moderately difficult assembly, sorting, checking, medium bench and machine works, etc.), offices.	500 lux
	High precision work (difficult assembly, sewing, color inspection, fine sorting etc.)	1,000 – 3,000 lux

* As per IFC International Finance Corporation World Bank Group Environmental, Health, and Safety (EHS) Guidelines GENERAL EHS GUIDELINES: OCCUPATIONAL HEALTH AND SAFETY, APRIL 30, 2007

monitoring Location according by client.

H.T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

FSSAI Approved Lab • Recognised by MoEF, New Delhi Under GPCB apprved ● ISO 14001:2004 ● OHSAS 18001:2007 ● ISO 9001:2008 Sec. 12 of Environmental (Protection) Act-1986 Note: This report is subject to terms & conditions mentioned overleaf

Head Office : 544, Belgium Tower, Ring Road, Opp. Linear Bus Stand, Surat-395003. (Guj.) Tele : (0261) 2455751, 2601224, 2601106 nch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007. Tele : (0261) 2635750, 2635751/E-mail : pollucon@gmail.com, Website : www.polluconlab.com

(in block Name letter) MR. Mukesh Patel 11 Sampling Date: 06.09.2017 Register containing particulars of monitoring of working environment required under Section 7-A (a) (e). of person taking samples Signature 1 CUSTOMER'S NAME AND ADDRESS: L & T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, Remarks Ц Number of exposed nonitored 03 person workers at the location Sampling working being Time 밁 ¥ Referenc e method IS 5182 (Part IV) Digital Gas Analyzer თ Politech Model No. PEM-HAS-113 Sr. No: 208 *as per OSHA Permissible Exposure Limit (PEL) for General Industry, # factory act limit, STEL : Short Term Exposure Limit Due Date of calibration: 04/04/2018 POST: BHATA, DIST: SURAT, GUJARAT, INDIA. TWA concen-tration (As given 440 mg/m³ mg/m³ second schedule (Prescribed under Rule 12-B) STEL <u>1</u>5 Ē Date of calibration: 05/04/2017 ∞ SMS Area EAF Platform Area Minimum 10 m distance Average mg/im³ 1.568mg/m³ 0.16 N 22:30 TO 23:30 Range mg/m³ mg/m³ 0.5-20 Contamination 0.1-1ဖ Airborne No. of samples ŝ instrument Sampling Dust Collector Digital Gas Analyzer/ Bladder used 4 Name of the Department/Plant. Monoxide as Particulate contaminant Dust Carbon Identified 8 m Distance from source Sampling Time in Hrs. Instrument Used ----N Operation Mentioned Raw Material Location/ SMS Area Platform Area EAF N ųδ -

PV COLLION SURAT NOD

FORM NO. 37



MR. MUKESH Name in block letter) PATEL 臣 Sampling Date: 06.09.2017 Register containing particulars of monitoring of working environment required under Section 7-A (a) (e). 1-18-Minderi PVT Signature of person taking samples 1 SURAT CUSTOMER'S NAME AND ADDRESS: J. & T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, Remarks NOS Ц Number of monitored workers exposed 05 person location⁻ being working at the Sampling Time 10 Аt Reference IS 5182 (Part IV) method Digital Gas Analyzer σh *as per OSHA Permissible Exposure Limit (PEL) for General Industry, # factory act limit, STEL: Short Term Exposure Limit POST: BHATA, DIST: SURAT, GUJARAT, INDIA. Rota Meter (Sr. No.13/1010) (0 – 3 LPM) TWA concen-tration (As given In 440 mg/m³ Due Date of calibration: 29/05/2018 15* mg/m³ schedule second STEL (Prescribed under Rule 12-B) ω FORM NO. 37 Date of calibration: 30/05/2017 APM 800, Sr. No.: 926-DTA-2014 ECOTECH Personal Sampler Minimum 10 m distance Average mg/m³ mg/m³ 1.452 0.14 Near RH Furnace 23:45 TO 00:20 Range mg/m³ mg/m³ 0.5-20 Contamination 0.1-1 φ Airbome Metal samples No. of \bigcirc Ŋ instrument Sampling Digital Gas Analyzer/ Bladder Collector used Dust 4 Monoxide as Name of the Department/Plant. Particulate contaminant Carbon Dust Identified 8 m Distance from source Sampling Time in Hrs. N ч Instrument Used Ope0ration Raw Material Mentioned Location/ Near RH Furnace N S. S. н

Name (in block) MR. MUKESH PATEL letter) n Sampling Date: 06.09.2017 mpuleti Signature of person taking samples Register containing particulars of monitoring of working environment required under Section 7-A (a) (e). 1 CUSTOMER'S NAME AND ADDRESS: L & T SPECIAL STEEL & HEAVY FORGIENS, HAZIRA MANUFACTURING COMPLEX, Remarks 11 Number of 06 person working nonitored workers exposed at the location Sampling being Time 10 At Digital Gas Analyzer Reference IS 5182 (Part IV) method Politech Model No. PEM-HAS-113 Sr. No: 308 თ *as per OSHA Permissible Exposure Limit (PEL) for General Industry, # factory act limit, STEL: Short Term Exposure Limit Due Date of calibration : 04/04/2018 440 mg/m³ STEL TWA concen-tration (As given In POST: BHATA, DIST: SURAT, GUJARAT, INDIA. Date of calibration: 05/04/2017 . 15* mg/m³ schedule second (Prescribed under Rule 12-B) ω FORM NO. 37 Minimum 10 m distance Lime Charging System Average mg/m³ mg/m³ 0.862 0.21 \sim 23:20 To 23:45 Range mg/m³ mg/m³ 0.5-20 0.1-1 Contamination ģ Airborne Lime No. of samples ۱n instrument Sampling Dust Collector Digital Gas Analyzer/ Bladder nsed 4 Monoxide as Name of the Department/Plant. Particulate contaminant Carbon Dust Identified 8 m Sampling Time in Hrs. Distance from source -N Instrument Used Operation . Mentioned Raw Material Location/ Charging System Līme N r S S ---



Annexure 4:

Noise Monitoring Reports

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Custa	TEST CERTIF	ICAT	<u>E FOR NO</u>	<u>ISE M</u>	<u>(ONI)</u>	TORING	084	5.10/32C
	and the second					· · · · · · · · · · · · · · · · · · ·		<u>ist</u>
	. L & T SPECIAL STEELS AND H HAZIRA MANUFACTURING CO	EAVY F)	drgings pv	T. LTD.	Tost Re	portijo :	PL/Lī	0050
1.200	DACT BUATUA DETRUC	M/PLEX			Issue D	ងតែ	in i tru	/2017
n an	POST: BHATHA, DIST: SURAT,	, GUJAR	AT,			uic i		
	INDIA. PIN CODE - 394510				Custom	er's Ref. 👘		FL5001
					<u></u>	·····		
Date	of Sampling : 21/	04/201	7 8 22/04/2	017		-		
Samp		10. UM - 5793	oratories Pvt.				1913. ^[]	
Same		in it and		LL(),	-		n generation an tha an an	i se in
10 A	요즘 말했는 것이 물건에서 가지 않는 것 같은 것 같아요. 한 같아요. 한 것 같아요. 한 것 같아요. 한 것 같아요. 한 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	ertable	1					
Test I	Method : 15:1	1702						etia ja Lite
1	Sour	d Level	Meter MAKE: L	UTRON				
Descri	PROFILO DI DISTRUMENT DEGI	10 2813	23 MODEL: SL-	405355	·	LANGE: 35 de	8 1 20	69
<u>an in</u> Geolean	Calíb	ration D	ate: 16.01.201	7		Due Data: 15.		
			ESULT TABLE	8		si se se s	lika ji kaji	
	T			Maria				
				. 0 6	SERVA	กักษ์		
SR.	NAME OF THE LOCATION		AY TIME MONT		1		<u></u>	
NO,		. 		iusina.		NIGHT TIME	MONIT	ORING
	and the second state of the second state of the	Date	& Time (Hr.)	de (a)	Date & Tinte (I	(v.)	
1	SMS Area Near Scrap Storage	22/04	/2017, 10:30	74.2	1.7	1/04/2017, 2	2.0n	73,
2	Near V/D Moulding Area							
	te de la companya de		/2017, 10:55	70,5	2	1/04/2017, 2	3:10	6 <u>9</u>
3	Near Reheating Furnace Area	22/04	/2017, 11:15	72,7	2	1/04/2017, 2	3:15	74.
4	WTP (Water Treatment Plant)	22/04	/2017, 11:40	68,2				
5	Boller Area					1/04/2017, 2		.65
		22/04	/2017, 12:10	65.4	. 2	1/04/2017, 2	3:35	63,
6	Compressor Area	22/04	/2017, 12:35	68.9	1 3	1/04/2017, 2	2.551	65,
<u>UMIT*</u>					· · · · · · · · · · · · · · · · · · ·			
DC200n	Table 2.3.1.	Notse Lim	its for Variaus Wo	iting Eavis	ឲពោទភាវិត			
leavy In	dustry (no demand for oral communication)		Equivalant les			Heimum		cź.
Jght Indi	isby (decreasing demand for oral communication		05 d5 50-65 g				dbiai.	
Dpen offi	ces, control rooms, service counters or similar		15-50 e			110	de(A)	
POIVICUA Tase	l offices (no disturbing noise) ns, lecture halls		40-45 6					<u>.</u>
101221/001	Ra, Iclaure fights	. 1	1.7					

35-40 dB(A)

30-35 dE(),

0 H.T. Shah Lab Manager

Hospitals

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Dr. Arun Bajpai Lab Manager (Q)

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40 cE(A)

 FSSAI Approved Leb . Recognized by MoEF, Priv. Sec. 12 of Environmental f(Anprued 150 14001 2004 • 105545 18001 2007 • 150 9001 2008 is subject to f

Head Office : 544, Belgium Tower, Ring Road, Opp. Linear Bus Stand, Surat-395003, (Gui.). Tele : (0261) 2455751, 2601224, 2601106 Branch Office : Piol No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shahlinath Sik Mil Lane, Naviivan Circle, Udhana Magdalla Road, Surat-3905007 Tele : (0261) 2635760, 2635751 E-mail : pollucon@gnall.com, Website : www.polluconlab.com

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TEST CERTIFICATE FOR NOISE MONITORING

M/S, L & T SPECIAL STEELS A HAZIRA MANUFACTURIN POST: BHATHA, DIST: SU INDIA. PIN CODE - 394	IRAT, GUJARAT,	Test Report No : Issue Date Customer's Ref. :	Page: 1.of 1 PL/LT 0053 12/05/2017 W.O. No: FLSD01001 DTD 23.07.2016
Date of Sampling Sampling by	12/05/2017 & 13/05/2017 Pollucon Laboratories Pvt. Ltd.		
Sampling Location	As per table 15:11702		
Description of Instrument Used	Sound Level Meter MAKE: LUTRON 5R. NO 281323 MODEL: SL-40335D Calibration Date: 16.01.2017		dB & 130 dB 15.01.2018

RESULT TABLE

SR.	NAME OF THE LOCATION	OBSERVATION				
NO.		DAY TIME MONITORING		NIGHT TIME MONITORING		
		Date & Time (Hr.)	45 (A)	Date & Time (Hr.)	dB (A)	
1	SMS Area Near Scrap Storage	12/05/2017, 10:45	73.2	13/05/2017, 10:50	70.8	
2	Near V/D Moulding Area	12/05/2017, 11:10	69.4	13/05/2017, 11:00	64.2	
3	Near Reheating Furnace Area	12/05/2017; 11:25	71.5	13/05/2017; 11:20	67.5	
4	WTP (Water Treatment Plant)	12/05/2017, 11:55	65.5	13/05/2017, 11:40	59.4	
5	Boiler Area	12/05/2017, 12:05	67.2	13/05/2017, 12:00	61.6	
6	Compressor Area	12/05/2017, 12:30	64,2	13/05/2017, 12:10	62.8	

Table 2.3.1. Noise Lini	its for Various Working Environments
Location /activity	Equivalent level (Aeq,6): Maximum LA max, fast
Heavy Industry (no demand for oral communication)	B5 ((B(A)) 110 ((B(A))
Ught Industry (decreasing demand (or oral communication)	50-65 dB(A)
Open offices, control rooms, service counters or similar	45-50 dB(A)
Individual offices (no disturbing noise)	40-45 d9(A)
Crassrooms, lecture halls	35-40 dB(A)
Hospitals	
	30~35 dB(A) 40 dB(A)

H.T. Shah Lab Manager

Dr. Arun Baipai Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf

FSSAI Approved Lab
 Recognized by MDEF, New Delbi Under
 GPCB approved
 ISC
 Sec. 12 of Environmental (Protection) Act-1980
 schedule II auditor

● ISO 16001;2004 ● CHSAS 16001;2607 ● ISO 0001;2008 or

Head Office : 544, Belgium Tower, Ring Road, Opp. Linear Bus Stand, Surat-395003. (Guj.) Tele : (0261) 2455751, 2601224, 2601106 Branch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007. Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Wabsite : www.polluconlab.com

OLLUCON LABORATORIES PVT. LTD

TEST CERTIFICATE FOR NOISE MONITORING

Customer's Name and Address :	QR/5.10/32C Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT, INDIA, PIN CODE - 394510	LTD. Test Report No : PL/LT 0076 Issue Date : 06/07/2017
	Customer's Ref. : W.O. No. FISODUU1 DTD 21.07.2016
Date of Sampling : 23/06/2017 & 24/06/20:	17
Sampling by : Pollucon Laboratories Pvt. Li	tđ,
Sampling Location : As per table	
Test Method : IS:11702	
Sound Level Meter MAKE: LU Description of Instrument Used : SR. NO 281323 MODEL: SL-4 Calibration Date: 16.01.2017	1033SD RANGE: 35 dB & 130 dB

RESULT TABLE

SR.			OBSER	VATION	
NO.	NAME OF THE LOCATION	DAY TIME MONITORING		NIGHT TIME MONITORING	
		Date & Time (Hr.)	dB (A)	Date & Time (Hr.)	dB (A)
1	SMS Area Near Scrap Storage	23/06/2017, 10:47	56,4	24/06/2017, 21:05	54.3
2	Near V/D Moulding Area	23/06/2017, 10:50	60.3	24/06/2017, 21:35	57.1
3	Near Reheating Furnace Area	23/06/2017, 11:05	72,6	24/06/2017, 21:50	71.7
4	WTP (Water Treatment Plant)	23/06/2017, 11:15	65.5	24/06/2017, 22:10	62.9
5	BoilenArea	23/06/2017, 11:35	71.6	24/06/2017, 22:35	70.6
6	Compressor Area	23/06/2017, 12:05	69.1	24/06/2017, 22:55	68.8

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21	
s for Various Working Environ	ments
Equivalent level LAeg.8h	Maximum LA max, fast
85 dB(A)	110 dB(A)
50-65 dB(A)	110 dB(A)
45-50 dB(A)	
40-45 dB(A)	
35-40 dB(A)	
30-35 dB(A)	40 dB(A)
	50-65 dB(A) 45-50 dB(A) 40-45 dB(A) 35-40 dB(A)

Dr. Arun Bajpai

Lab Manager (Q)

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0.00000 $(N,\eta,\gamma) \in \mathbb{N}$ H.T. Shah والفيزة بالأخار 11 Lab Manager

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Recognised by MOER, New Delhi Under GPCB apprvgd ISO 14001 : 2004 OHSAS 18001 : 2007 ISO 9001 : 2008 Sec. 12 of Environmental (Protection) Action by Contractions and Contract of Sec. 12 of Environmental (Protection) Action of Contract of Sec. 12 of Environmental (Protection) Action of Contract of Sec. 12 of Environmental (Protection) Action of Contract of Sec. 12 of Environmental (Protection) Action of Contract of Sec. 12 of Environmental (Protection) Action of Contract of Sec. 12 of Environmental (Protection) Action of Contract •FSSAI Approved Lab • Recognised by MoEE,

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POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR NOISE MONITORING

Customer's Name and Address :

M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No : PL/LT 0088
HAZIRA MANUFACTURING COMPLEX,	Issue Date : 05/08/2017
POST: BHATHA, DIST: SURAT, GUJARAT, INDIA. PIN CODE - 394510	Customor's Pot W.O : FLS001153
1101A. PIN CODE - 334510	DTD:20.06.2017

		Calibration Date: 16.01.2017	Due Date: 15.01.2018
1	Description of Instrument Used	; SR. NO 281323 MODEL: SL-4033SD	RANGE: 35 dB & 130 dB
		Sound Level Meter MAKE: LUTRON	
e. G	Test Method	: IS:11702	
·	Sampling Location	: As per table	
	Sampling by	: Pollucon Laboratories Pvt. Ltd.	
d.	Date of Sampling	: 12/07/2017 & 13/07/2017	

RESULT TABLE

- 		OBSERVATION				
SR. NO.	NAME OF THE LOCATION	DAY TIME MONITORING		NIGHT TIME MONIT	ORING	
		Date & Time (Hr.)	dB (A)	Date & Time (Hr.)	dB (A)	
1	SMS Area Near Scrap Storage	12/07/2017, 10:45	55.7	13/07/2017, 21:00	53.9	
2	Near V/D Moulding Area	12/07/2017, 10:58	60.1	13/07/2017, 21:12	56.6	
3	Near Reheating Furnace Area	12/07/2017, 11:10	72,3	13/07/2017, 21:48	72.0	
4	WTP (Water Treatment Plant)	12/07/2017, 11:35	65,8	13/07/2017, 22:01	. 63.2	
5	Boiler Area	12/07/2017, 11:55	70.9	13/07/2017, 22:26	70.5	
6	Compressor Area	12/07/2017, 12:10	68.6	13/07/2017, 22:53	69.1	

LIMIT*		
Table 2.3.1. Noise Limi	ts for Various Working Enviror	iments
Location /activity	Equivalent level LAeq,8h	Maximum LA max, fast
Heavy Industry (no demand for oral communication)	85 dB(A)	110 dB(A)
Light Industry (decreasing demand for oral communication)	50-65 dB(A)	110 dB(A)
Open offices, control rooms, service counters or similar		
Individual offices (no disturbing noise)	40-45 dB(A)	
Classrooms, lecture halls	35-40 dB(A)	
Hospitals	30-35 dB(A)	40 dB(A)

CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022

H.T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

OR/5.10/32C

Pane 1 of 1

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TEST CERTIFICATE FOR NOISE MONITORING

• •	Customer's Name and Address :	QR/5.10/32C Page: 1 of 1
•	M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No : PL/LT 0099
	HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date : 22/08/2017
ð.	INDIA. PIN CODE - 394510	Customer's Ref. : W.O : FLS001153 DTD:20.06.2017

Date of Sampling Sampling by Sampling Location Test Method Description of Instrument Used

Pollucon Laboratories Pvt. Ltd. As per table IS:11702

11/08/2017 & 12/08/2017

Sound Level Meter MAKE; LUTRON SR. NO 281323 MODEL; SL-4033SD Calibration Date: 16.01.2017

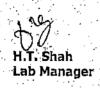
RANGE: 35 dB & 130 dB Due Date: 15.01.2018

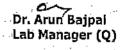
RESULT TABLE

	NAME OF THE LOCATION		OBSER	VATION				
SR. NO.		DAY TIME MONIT	ORING	NIGHT TIME MONITORING				
L.		Date & Time (Hr.)	dB (A)	Date & Time (Hr.)	dB (A)			
1	SMS Area Near Scrap Storage	11/08/2017, 10:30	58.6	12/08/2017, 21:15	52.8			
2	Near V/D Moulding Area	11/08/2017, 10:40	62.3	12/08/2017, 21:30	55.7			
3	Near Reheating Furnace Area	11/08/2017, 10:55	71,5	12/08/2017, 21:45	69.3			
- 4	WTP (Water Treatment Plant)	11/08/2017, 11:05	66.9	12/08/2017, 22:05	61.2			
5	Boller Area	11/08/2017, 11:20	71,8	12/08/2017, 22:20	69.4			
6	Compressor Area	11/08/2017, 12:35	67.3	12/08/2017, 22:45	68.1			

·	LIMIT*						
	Table 2.3.1. Noise Limits for Various Working Environments						
4	Location /activity	Equivalent level LAeq,8h	Maximum LA max, fast				
	Heavy Industry (no demand for oral communication)	85 dB(A)	110 dB(A)				
	Light industry (decreasing demand for oral communication)	50-65 dB(A)	-110 dB(A)				
۰.	Open offices, control rooms, service counters or similar	45-50 dB(A)					
1	Individual offices (no disturbing noise)	40-45 dB(A)					
Ŀ.	Classrooms, lecture halls	35-40 dB(A)					
	Hospitals	30-35 dB(A)	40 dB(A)				

CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022





Note: This report is subject to terms & conditions mentioned overleaf

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POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR NOISE MONITORING

	Customer's Name and Address :	· · · · · · · · · · · · · · · · · · ·	QR/5.10/32C Page: 1 of 1
•	M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No	PL/LT 0106
1	HAZIRA MANUFACTURING COMPLEX,	Issue Date	29/09/2017
	POST: BHATHA, DIST: SURAT, GUJARAT, INDIA. PIN CODE – 394510	Customer's Ref.	W.O.; FLS001153 DTD:20.06.2017

Sampling by:Pollucon Laboratories Pvt. Ltd.Sampling Location:As per tableTest Method:IS:11702Description of Instrument Used:SR. NO 281323 MODEL: SL-4033SD Calibration Date: 16.01.2017RANGE: 35 dB & 130 dB Due Date: 15.01.2018	Date of Sampling	06/09/2017	
Test Method : IS:11702 Sound Level Meter MAKE: LUTRON Description of Instrument Used : SR. NO 281323 MODEL: SL-4033SD RANGE: 35 dB & 130 dB	Sampling by	Pollucon Laboratories Pvt. Ltd.	
Sound Level Meter MAKE: LUTRON Description of Instrument Used : SR. NO 281323 MODEL: SL-4033SD RANGE: 35 dB & 130 dB	Sampling Location	As per table	
Description of Instrument Used : SR. NO 281323 MODEL: SL-4033SD RANGE: 35 dB & 130 dB	Test Method	IS:11702	
	Description of Instrument Used	SR. NO 281323 MODEL: SL-4033SD	

RESULT TABLE

•••			OBSER	VATION				
SR. NO.	NAME OF THE LOCATION	DAY TIME MONITORING		NIGHT TIME MONITORING				
NU.		Date & Time (Hr.)	dB (A)	Date & Time (Hr.)	dB (A)			
1	SMS Area Near Scrap Storage	06/09/2017, 10:35	59.6	07/09/2017, 21:20	50.7			
2	Near V/D Moulding Area	06/09/2017, 10:45	63.1	07/09/2017, 21:45	52.8			
3	Near Reheating Furnace Area	06/09/2017, 11:00	70.6	07/09/2017, 22:00	67.4			
4	WTP (Water Treatment Plant)	05/09/2017, 11:10	68.2	07/09/2017, 22:10	59.3			
5	Boiler Area	06/09/2017, 11:25	69.4	07/09/2017, 22:30	67.1			
6 ·	Compressor Area	06/09/2017, 11:40	66.5	07/09/2017, 22:50	66.6			

[1] A. M.			<u> </u>
LIMIT*		· · · · · · · · · · · · · · · · · · ·	
Table 2.3.1. Noise Limit	ts for Various Working Environ	ments	
Location /activity	Equivalent level LAeq,8h	Maximum LA max, fast	12
Heavy Industry (no demand for oral communication)	_85 dB(A)	110 dB(A)	·
Light industry (decreasing demand for oral communication)	50-65 dB(A)	110 dB(A)	
Open offices, control rooms, service counters or similar	45-50 dB(A)		
Individual offices (no disturbing noise)	40-45 dB(A)		
Classrooms, lecture halls	35-40 dB(A)		<u> </u>
Hospitals	30-35 dB(A)	40 dB(A)	
CC 9: A: WWW-97212 Tecuad Date: 20/07/2017 Valid up to: 22/05/2022	the second se		

H.T. Shah

Lab Manager

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> Dr. Arun Bajpai Lab Manager (Q)

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7SSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental Natrice Budger is Subject the Retails & constitution monertiques over AB 18001:2007 ● 180 9001:2008

Head Office : 544, Belglum Tower, Ring Road, Opp. Linear Bus Stand, Surat-395003. (Guj.) Tele : (0261) 2455751, 2601224, 2601106 rch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc.; Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007, Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

Annexure 5:

Raw Effluent and Treated Effluent Analysis Reports

Treated Effluent (RO Permeate) Trend (Apr 17 to Sept 17)									
Quater (Quater	rly/Mon	thly throug	h M/s Po	llucon Lab	oratory,	MoEF Ap	proved)		
Parameters	Unit	Limit	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Average
Colour	Co-pt	100.0	10.0	20.0	10.0	15.0	10.0	11.0	12.7
pH		6.5-8.5	8.4	8.4	8.3	8.4	8.4	8.0	8.3
TSS	mg/L	100.0	14	16	52.0	24.0	16.0	30.0	25.3
TDS	mg/L	2100.0	44.0	62.0	46.0	40.0	37.0	36.0	44.2
Total Hardness as CaCO ₃	mg/L	NS	-	30.0	-	_	22.2	-	26.1
Chloride as Cl	mg/L	NS	10.0	15.0	10.0	5.0	9.0	11.0	10.0
Calcium as Ca	mg/L	NS	2.0	3.2	2.4	2.4	2.0	1.6	2.3
Magnesium as Mg	mg/L	NS	1.2	5.3	1.0	1.7	1.2	1.0	1.9
Oil & Grease	mg/L	10.0	BDL	BDL	BDL	BDL	BDL	BDL	ND
Phenolic Compound	mg/L	1.0	· -	BDL	-	-	BDL	-	ND
Hexavalent Chromium, Cr ⁺⁶	mg/L	0.1	-	BDL	-	-	BDL		ND
Total Chromium, Cr ⁺³	mg/L	2.0 ·	_	BDL	-	-	BDL	-	ND.
Copper as Cu	mg/L	2.0	-	BDL	-	-	BDL	· _	ND
Zinc as Zn	mg/L	5.0	· _	BDL		- .	BDL	-	ND
Iron as Fe	mg/L	NS	BDL	0.015	0.68	0.42	0.012	0.42	0.3
Nicle as Ni	mg/L	2.0	-	0.1	-	-	0.1		0.1
Sulphate as SO ₄	mg/L	NS	2.1	3.4	3.4	2.4	2.6	1.1	2,5
Cyanide as CN	mg/L	0.2	-	BDL	_	-	BDL	-	ND
Silica as SiO ₂	mg/L	NS	4.3	4.8	6.5	3.2	3.6	2.4	4.1
Fluoride as F	mg/L	1.0	-	BDL	-	-	BDL	-	ND
COD	mg/L	100.0	BDL	28	34	24	26	28	30.3
BOD	mg/L	30.0	BDL	BDL	8	6	7.4	9	8.0
Sulphide as S	mg/L	2.0	-	BDL	-	_	BDL	-	ND
Ammonical Nitrogen as NH ₃	mg/L	50.0	BDL	BDL	0.96	0.52	BDL	0.98	0,8
Temprature	·C	40.0	29.0	32.0	29.0	27.0	30.0	30.0	29.5
Nitrate Nitrogen as NO ₃	mg/L	NS	BDL	BDL	0.18	0.24	BDL	0.14	0,4
Sodium as Na	%	60.0	57.69	28.8	57.4	55.5	50.0	52.9	50.4
Mercury as Hg	mg/L	0.01	-	BDL	_	-	BDL	-	ND

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TEST CERTIFICATE FOR RO REJECT WATER

M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS I HAZIRA MANUFACTURING COMPLEX,	PVT. LTD.	Test Report No.	: PL/LT 0049
POST: BHATHA, DIST: SURAT, GUJARAT,		Issue Date	: 01/05/2017
INDIA, PIN CODE - 394510		Customer's Ref.	W.D. No. FL5001603 DTD 21.07,2016
Description of Sample : Water Sample	Quantity/No.	of ⊊amol≥s	05 Lit/One
Date of Sampling : 22/04/2017	Sampling Pro		Grab
Sampling By Pollucon Laboratories Pvt. Ltd.	Protocol (pur		DC
Sample Receipt Date : 22/04/2017	Lab ID	눈물 이 가 가 가 가 가 다 나 다.	 LT/1704/10
Packing/ Sealed	Test Paramet		As per table
Date of Starting of Test : 22/04/2017			01/05/2017

		TES	ST RESULT	
SR. NO	TEST PARAMETERS	UNIT	RESULT ROREJECT WTP 12	TEST METHOD
1.	Colour	Co-pt	30	153025(B-4)83(te.02
2.	pH		7.78	153025(P-11)83Re.02
3.	Total Suspended Solids	mg/L	84	IS3025(P-17)84Re.02
4,	Total Dissolved Solids	mg/L	1281	IS3025(P-16)84Re:02
-5.	Chloride as Cl	- mg/L	319	153025(P.37)868±92 Alganidmetric method
6,	Celcium as Ca	mg/L	92	TS3025(P-40)91Re.03 EDTA Titrimetric method
7.	Magnesium as Mg	, mg/L	80.64	153025(P-46)94Re.99 EDTA methód
8.	Oll & Grease	mg/L	BDL*	APRIACZZ ^{SE} ECHISSED D
9.	Iron as Fe	mg/L	0.002	AAS APHA(22=2 EM)3111 B
10.	Sulphate as 504		210	APHA(22 ⁴⁷ ECI)1500 SO, E Furbleimetric
11,	Silica as SiO ₂	mg/L	80.31	APHTA(22 ^{rg} Edi)4500 Si C
12.	COD	mg/L	72	APHA(22**Edl) 5529-0
13,	80D (3 Days @ 27 °C)	mg/L	18	OPEN REFLUX IS 3025 (P-44)
14.	Ammonical Nitrogen as NH3	mg/L	0.895	IS-3025-(P-34)
15.	Temperature	۰c	32	IS -3025(P-9)
16.	Nitrate Nitrogen as NO3.	mg/L	0.24	IS3025(E-34)\$00
17.	Sođium as Na	•%₀	39.70	Chranotrepe Acid Pictured AAS APHA (22 ²⁴ Edl.)3500 Na.B
- なわえ キ・セ	alout Depending that his thirt was been at a set	· · · · · · · · · · · · · · · · · · ·		

BDL-7: Below Betection Limit, Minimum Detection Limit; Oil & Grease: 1.6 mg/L, Amnunital Mangers: 0.95 mg/L

D Ĺ H. T. Shah

Dr. Árun Bajpai

•F3SAI ApprovLAB:MARADELsed by MoEF, New Delhi Under Sac. 12 of Environmental (Protaction) Act-1965 • ISO 14001 : 2004上名为林东政和国际上级设计 ● ISO 10001 : 2000 GPCB approved schedule R auditor

Head Office : 544.-Belgium Tower Dies Torad epent lanes Bus River Systel 395082. (Culer Jele (0264) 2455751.-2601224.2601106 Branch Office : Plot No. 5/6, Pollucon House, Opp. Balajt Industrial Soc., Old Shanlinah Sik Mil Lane, Navivan Circle, Udhana Magdalla Road, Surat 390500 Tele : (0261) 2635750, 2635751 E-mail : pollucon@ginal.com, Website : www.polluconlab.com

TEST CERTIFICATE FOR RAW EFFLUENT WATER

Customer's Name and Address :	QR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS P HAZIRA MANUFACTURING COMPLEX.	VT. LTD. Test Report No. : PL/LT 0047
POST: BHATHA, DIST: SURAT, GUJARAT.	Issue Date : 01/05/2017
INDIA. PIN CODE - 394510	Clistomar's Ref. 1 010 21.07.2016
Description of Sample : Water Sample	Quantity/No. of Samples : 05 Lit/One
Date of Sampling : 22/04/2017	Sampling Procedure : Grati
Sampling By Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)
Sample Receipt Date : 22/04/2017	Lab 1D LT/1704/08
Packing/ Seal	Test Paratheters : As per table
Date of Starting of Test : 22/04/2017	Date of Completion of Test : 01/05/2017

TEST RESULT

			TEST RESULT	united of the second states of
SR. NO	TEST PARAMETERS	UNIT	RESULT	
<u> </u>			RAW EFFLUENT (CTBD TANK) WTP 06	TEST METHOD
1.	p t		9.60	153025(P-11)83Re.02
2.	Total Suspended Solids	mg/L	10	153025(P-17)84Rs.02
3.	Total Dissolved Solids	mğ/L	48	IS3025(P-16)84Ra.02
4	Total Hardness as CaCO ₃	mg/L	10	153025(P-21)8450TARe.02
5.	Alkalinity		20	IS3025(P-23)86Ro.03
6.	Chloride as Cl	mg/[14,49	IS3025(P-32)86Re.99
.Z.	Calcium as Ca	mg/L	2.5	Aroentanetric method IS3025(P-40)91Re.03 EDTA Titrimetric method
8.	Magnesium as Mg	nıg/L	1.2	153026(P-46)991ke.99 EDTA method
9.	Oil & Grease	mg/L	BDL≉	APHA(22* Ed)5520 D
10,	Iron as Fe	mg/L	0.012	ÁAS APHA(22 E0)3111 B
11.	Sulphate as SO4	mg/L	1,40	APISA(22 nd Edi 2500 SO.
12.	Silica as SiOz	mg/L	2.42	E Turbielmetric method APHA(22 nd Edi)4500 Si C
13.	COD	mg/L	8.0	APHA(22 nd Edi) \$520-D
14.	BOD (3 Days @ 27 °C)	mg/L	BDL*	OPEN REFLUX IS 3025 (P-44)

ction Umics Oll & Greeset 1.0 mg/L

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Dr. Arun Bajpai

GPCB appryed schedule II auditor

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Head Office : 544, Belgium Towen Bleg Fnan-Gup, Isras Bur Siger Siger Sver 395703n Gub 1(She (0251) 255751, 2601224, 2601106 Branch Office : Plot No. 5/6, Politicon House, Opp. Balaii Industrial Soc., Old Shantinath Silk Mill Lane. Navjivah Circle, Lidhana Magdalla Road, Surat 3905007. Tele : (0261) 2635750, 2635751 E-mail : polluton@gmail.com, Website : www.pollucontab.com

TEST CERTIFICATE FOR TREATED EFFLUENT WATER

Customer's Name and Address	
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS	PVT. LTD. Test Report No. ; PL/LT 0048
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date . 01/05/2017
INDIA. PIN CODE - 394510	Customer's Bef. : W.O. Ha. FLS002001 pro. 21.57.2016
Description of Sample ; Water Sample	Quantity/No. of Samples : 05 Lit/One
Date of Sampling : 22/04/2017	Sampling Procedure : Grab
Sampling By	Protocol (purpose)
Sample Receipt Date : 22/04/2017	Lab ID
Packing/ Seal	Test Parameters : As per table
Date of Starting of Test : 22/04/2017	Date of Completion of Test : 01/05/2017
	RESULT

				· · · · · · · · · · · · · · · · · · ·	
SR.	TEST PARAMETERS	ÜŅĪT	RESULT	GPCB	
NO.			TREATED EFFLUENT (RO PERMEATE) WIT 05	LIMIT:	TEST METHOD
1	Colour	Cö-pt	50	160 Cə-pt	1S3025(P-4)83Re.02
2	рН		8.91	6,5 to 8.5	IS3025(P-11)83Re.02
3,	Total Suspended Solids	mg/L	- 20	100 mg/L	IS3025(P-17)84Re.02
4.	Total Dissolved Solids	mg/L	651	.2100 mg/L	I53025(P-16)84Re-02
5.	Chloride as Cl	mg/L	155	NS*	153025(Pys2)USRE.C9 Algenometric memory
5.	Calcium as Ca	mg/L	4.8	NS≭	ISSU25(P-10)91Re.03 EDTA TRIMISTIC IDENOS
7.	Magnesium as Mg	mg/L	51.84	NS®	153075(P-+\$)94Re_\$9 EDTA method
8.	OJ & Grease	mg/L	BDI.*	- 10 mg/L	49%4221 Edi)5520 D
9.	Sulphate as SO ₄	mg/L	41.36	NS*	APHA(32 rd Ech)4500 SO4 E Turkkometric method
10.	Silica as SiO ₂	mg/L	4.8	NS*	APE/A(22** Ed)/4500-SI C
11.	COD	mg/L	20	100 mg/L	APHA(22 ^{PD} ECI) 9520-0 OPEN REFUIX
12.	BOD (3 Days @ 27 °C)	mg/L	8,0	36 mg/L	15 3025 (P-44)
13.	Ammonical Nitrogen as NH3	mg/L	1,28	50 mg/L	IS-3025-(P-34)
14.	Temperature	٩C	30	40 °C	1\$-3025(P-9)
15.	Iron as Fe	mg/L	0.24	Lind/L	AAS APHA(12* E00)3111 B
16.	Nitraté Nitrogen as NO3	.mg/L	0.20	NS*	158025(P-04)48 Chremotropic Add (Aethod
17.	Sodium as Na ow Detection Limit Nationum Detection Limits Of a	%	47.89	GÓ	AAS APHA (22° 520)6523 No. 5

BDL*: Below Detection Linkt, Minimum Detection Limit: Oil & Greeset 1.0 mail, Anationical Ritragent (1.05 most Hitrate Introgen: 0.15 mort. NS": Not specified #Details given by client.

H. T. Shah

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• FSSAI Approver Bill Managersed by MoEF, New Delhi, Under Sec. 12 of Environmental (Pretection) Act-1986

GPCB appred schedule II anditor Dr. Arun Bajpai

Head Office > 544, Belgium ToweNDing Prost-Oper Meso But BreenSugl-395(003-fGvidnTeles(0254);2455751, 2601224, 2501106 Branch Office : Plot No :5/6, Pollucon House, Opp. Balaji Industrial Soc. Old Shanimath Sik Mill Lane, Navivan Circle, Udhana Magdalla Road, Surat-3905007 Tele : (0261) 2635750, 2635751 E-mail; pollucon@gmail.com, Website ; www.polluconlab.com

TEST CERTIFICATE FOR RAW WATER

POLLU (CON LABORATORIES PLC LIC

Customer's Name and Address :	QR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD. HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT, INDIA. PIN CODE – 394510	Test Report No. : PL/LT 0059 Issue Date : 2D/05/2017 Customer's Ref. : W.O. No. FL5001001 DTB 21.07.2016
Description of SampleWater SampleQuantity/No.Date of Sampling13/05/2017Sampling ProSampling ByPotitucion taboratories Pvt. 1td.Protocol (purSample Receipt Date15/05/2017Lab IDPacking/ SealSealedTest ParametDate of Starting of Test15/05/2017Date of Comp	cedure : Grab pose) : QC : LT/1705/14
TEST RESULT SR. TEST PARAMETERS UNIT RAW WATER	TEST METHOD

SR. NO	TEST PARAMETERS	UNIT	RESULT RAW WATER WTP 01	TEST METHOD
1	pH. The later of the second second		7.69	153025(P-11)83Re.02
2.	Turbidity	NTU	3,12	APHA 2130-B
3.	Electric Conductivity	µmho/cm	427	APHA 2510
4.	Total Suspended Solids	mg/L	30	IS3025(P-17)84Re.02
5.	Total Dissolved Solids	mg/L	229	153025(P-16)84Re.02
6.	Total Hardness as CaCO ₃	mg/L	128	153025(P-21)84EDTARe.02
7,	Residual Chlorine	mg/L	< 0.1	APHA(22 ^{ne} Edi)4500 Cl G-DPD Calorimetric method
8.	Dissolved Oxygen	mg/L	5.4	153025(P-38)89Re.99Titrimetric method
9,	Calcium as Ca	mg/L	23,2	153025(P-40)91Re.03EDTA Titrimetric method
10	Magnesium as Mg	mg/L	16.8	I53025(P-46)94Re.99EDTA method
11.	Silica as SiO ₂	mg/L	6.02	APHA(22 rd Edi)4500 SI C
12.	Fluoride as F	mg/L	BDL*	APHA(22 ^{ed} EdI) 4500 F D SPANDS Method
13.	Ammonical Nitrogen as NH3	mg/L	1.8	IS-3025-(P-34)
14	Temperature	°C	30	IS-3025(P-9)
15.	Nitrate Nitrogen as NO3	mg/L	0.26	IS3025(P-34)68Chromotropic Acid Method
16.	Total Alkalinity	mg/L	148	IS3025(P-23)86Re.03
17.	Sulphate as SO ₄	mg/L	23.6	APHA(22=0 Edi)4500 SO4 E
18.	Chloride as Cl	mg/L	32,49	153025(P32)88Re.99
19.	Iron as Fe	mg/L	0.014	AAS APHA(22NEdl)3111 B

BDL*: Below Detection Limit, Minimum Detection Limit: Fluonde as F: 0.01 mg/L

H. T. Shah

GPCB apprved • 150 schedule II auditor

Dr. Arun Bajpai

• ISO 14001 : 2004 3 8-188 9-189 • 150 9001 : 2008

Head Office : 544, Belgium Towen Bieg Rhielr Grantlinseb But Gerod Rosel Grad Biel (Snight Token (2006) 2455751, 2601224, 2601106 Branch Office : Piol No. 5/6, Pollucon House, Opp. Balail Industrial Soc., Old Shantinath, Silk Mill Lane, Navijvan Circle, Udhana Magdalia Road, Sural-3905007 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com POLLUCON LABORATORIES PUT KID.

TEST CERTIFICATE FOR RAW EFFLUENT WATER

HAZIRA MANUF	TEELS AND HEAVY FORGINGS PV (CTURING COMPLEX, DIST: SURAT, GUJARAT,	T. LTD. Test Report No.	i. : PL/LT 0058 : 20/05/2017
INDIA. PIN COD	E-394510	Customer's Re	W.O. No. FL5001001 DTD 21.07.2016
Description of Sample	: Water Sample	Quantity/No. of Samples	: 05 Lit/One
Date of Sampling	: 13/05/2017	Sampling Procedure	t Grab
Sampling By	: Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	; QC
Sample Receipt Date	; 15/05/2017	Lab ID	: LT/1705/13
Packing/ Seal	: Sealed	Test Parameters	: As per table
Date of Starting of Test	: 15/05/2017	Date of Completion of Test	: 20/05/2017
	TEST F		

SR			RESULT		
NO		UNIT	RAW EFFLUENT (CTBD TANK) WTP 06	TEST METHOD	
1	pH		8.66	IS3025(P-11)83Re.02	
2.	Total Suspended Solids	mg/L	66	153025(P-17)84Re.02	
3.	Total Dissolved Solids	mg/L	619	IS3025(P-16)84Re.02	
4	Total Hardness as CaCO ₃	mg/L	275	IS3025(P-21)84EDTARe.02	
5.	Alkalinity	mg/L	21,2	IS3025(P-23)86Re.03	
6.	Chloride as Cl	mg/L	119	153025(P-32)88Re.99 Argentometric method	
7.	Calcium as Ca	mg/L	21.6	1\$3025(P-40)91Re.03 EDTA Titrimetric method	
8,	Magnesium as Mg	mg/L	53.28	1S3025(P-46)94Re.99 EDTA method	
9.	Oil & Grease	mg/L	BDL*	APHA(22** Edi)5520 D	
10.	Iron as Fe	mg/L	0.59	AAS APHA(22 ^{IM} Edi)3111 B	
11.	Sulphate as SO4	mg/L	47.36	APHA(22 ¹⁴ Edi)4500 SO ₄ E Turbidimetric method	
12,	Silica as SiO ₂	mg/L	18.49	APHA(22 ^M Edi)4500 Si C	
13.	COD	mg/L	96	APHA(22 ^{#4} Edl) 5520-D OPEN REFLUX	
14.	BOD (3 Days @ 27 °C)	mg/L	24	IS 3025 (P-44)	

BOL*: Below Detection Limit, Minimum Detection Limit: Oil & Grease: 1.0 mg/L

H, T. Shah

• FSSAI Approvie bi Managaleed by MeEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1988

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 GPCE apprved. schedule II auditor

Head Office : 544, Belgium Towen, Bigg Fend, Ocn Usigab, Bengl, Rend, Rend, Rend, Rend, Rend, Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shanunath Silk Mill Lane, Naviivan Circle, Udhana Magdalla Road, Surat 3905007 Tele : (0261) 2535750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

TEST CERTIFICATE FOR TREATED EFFLUENT WATER

P(O)LLU(CO)NDAEORATORIES PUTATO

Customer's Name and Address :	QR/5.10/32 Page: 1 of 1
M/S. L& T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No. : PL/LT 0060
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date : 20/05/2017
INDIA. PIN CODE - 394510	Customer's Ref. : W.O. No. FL5091801
Description of Sample : Water Sample Quantity/No.	of Samples : 05 Lit/One
Date of Sampling : 13/05/2017 Sampling Pro	ocedure : Grab
Sampling By ; Pollucon Laboratories PvL Ltd. Protocol (pu	(pose) ; QC
Sample Receipt Date : 15/05/2017 Lab ID	: LT/1705/15
Packing/ Seal t Sealed Test Parame	ters : As per table

			TEST RESULT		
SR. NO.	TEST PARAMETERS	UNIT	RESULT TREATED EFFLUENT (RO PERMEATE) WTP 05	GPCB LIMIT.	TEST METHOD
1.	Colour	Co-pt	10	100 Co-șt	IS3025(P-4)83Re.02
2.	pH	-	8.48	6.5 to 8.5	IS3025(P-11)83Re.02
3.	Total Suspended Solids	mg/L	32	100 mg/L	IS3025(P-17)84Re.02
4	Total Dissolved Solids	_mg/L	50	2100 mg/L	IS3025(P-16)84Re.02
5.	Chloride as Cl	mg/L,	12,49	NS*	IS3025(P-32)88Re:99 Argentometric method
6.	Calcium as Ca	mg/L	0.28	NS*	IS3025(P-40)91Re.03 EDTA Turimetric method
7.	Magnesium as Mg	tng/L	0.96	NS*	153025(P-46)94Re.99 EDTA method
В,	Oil & Grease	mg/L	BDL*	10 mg/L	APHA(22 nd Edi)5520 D
9.	Sulphate as SO4	mg/L	2.76	N\$*	APHA(22 nd Edi)4500 SO, E Turbidimetric method
10.	Silica as SiO ₂	mg/L	2.04	NS*	APHA(22° Edi)4500 Si C
11.	COD	mg/L	22	100 mg/L	APHA(22 ⁷⁴ Edi) 5520-D Open Reflux
12.	BOD (3 Days @ 27 °C)	mg/L	7	30 mg/L	IS 3025 (P-44)
13.	Ammonical Nitrogen as NH3	mg/L	10.70	50 mg/L	IS-3025-(P-34)
14.	Temperature	°C.	30	40 °C	IS-3025(P-9)
15.	Iron as Fe	mg/L	0.16	1 mg/L	· AAS APHA(22™ Edi)3111 B
16.	Nitrate Nitrogen as NO3	. mg/L	0.87	NS*	153025(P-34)\$8 Chroniotropic Acid Method
17.	Sodium as Na	%	56.4	60	AAS APHA (22 ¹⁴ Eci.)3500 Ha B

Date of Completion of Test

: 20/05/2017

SDL*: Below Detection Limit, Minimum Detection Limit: Oil & Grease: 1.0 mg/L, Amnionical Mirogen: 0.05 mg/L, Narate Narogen: 0.15 mg/L N5*: Not specified #Details given by client.

H. T. Shah

• FSSAI Approverbul MORESElised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1936

Date of Starting of Test ; 15/05/2017

 GPCB approved schedule If auditor

Dr. Arun Bajpai • 150 14001 : 2004 - 10 MAD 4991 (20) + 150 2001 : 2008

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	<u>IESI CERI</u>	FICALE	<u>FOR RO REJECT V</u>	VALER
Custo	mer's Name and Address :			QR/5.10/32 Page: 1 of 1
M/s.	1. & T SPECIAL STEELS AND HEAV		PVT. LTD. Test Re	part No. : PL/LT 0061
•	HAZIRA MANUFACTURING COM POST: BHATHA, DIST: SURAT, G		Issue D	ate : 20/05/2017
	INDIA. PIN CODE - 394510		Custor	W.O. No. FLS001001
Desci	ription of Sample : Water Sa	ample	Quantity/No. of Samp	les : 05 Lit/One
Date	of Sampling : 13/05/20)17	Sampling Procedure	: Grab
Samı	oling By : Pollucon La	poratories Pvt. Ltc	Protocol (purpose)	; QC
Samp	ole Receipt Date : 15/05/20	117	Lab ID	: LT/1705/16
Pack	ing/ Seal Sealed		Test Parameters	: As per table
Date	of Starting of Test : 15/05/20)17	Date of Completion o	f Test : 20/05/2017
		TES	<u>T RESULT</u>	
SR.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
NO			RO REJECT WTP 12	
1:	Colour	Co-pt	20	1S3025(P-4)83Re.02
Ζ.	рН		7.73	IS3025(P-11)83Re.02
3,	Total Suspended Solids	ing/L	66	153025(P-17)84Re.02
4.	Total Dissolved Solids	mg/L	1281	IS3025(P-16)84Re.02
5.	Chloride as Cl	mg/L	300	153025(P-32)88Re:99 Argentometric method
6.	Calcium as Ca	mg/L	93	153025(P-40)91Rq.03
				EDTA Titrimetric method
7.	Magnesium as Mg	mig/L	75	EDIA Infinetric metroa 153025(P-46)94Re.99 EDTA metroa
7. 8.	Magnesium as Mg Oil & Grease	mg/L mg/L	75 BDL*	153025(P-46)94Rc.99
				153025(P-46)94Re.99 EDTA method
8.	Oil & Grease	mg/L	BDL*	153025(P-46)94Re.99 EDTA method APHA(22 rd Edl)5520 D AAS APHA(22 rd Edl)3111 B
8. 9.	Oll & Grease Iron as Fe	mg/L mg/L	BDL* BDL*	153025(P-46)94Re.99 EDTA method APHA(22 rd Edi)5520 D AA5 APHA(22 rd Edi)3111 B APHA(22 rd Edi)4500 So, E Turbidimetric method APHA(22 rd Edi)4500 Si C
8. 9. 10.	Oll & Grease Iron as Fe Sulphate as SQ ₄	mg/L mg/L mg/L	BDL* BDL* 23.9	153025(P-46)94Re.99 EDTA mathod APHA(22 rd Edi)5520 D AA5 APHA(22 rd Edi)3111 B APHA(22 rd Edi)4500 SO, E Turbid/matho method

TEST CERTIFICATE EC

BDL*: Belaw Detection Limit, Ninimum Detection Limit: Oil & Grease: 1.0 mg/L, Ammonical Nitrogen: 0,05 mg/L

mġ/L

mg/L

°C

mg/L

%

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BOD (3 Days @ 27 °C)

Nitrate Nitrogen as NO3

Temperature

Sodium as Na

Ammonical Nitrogen as NH3

• 150 14001 ; 2004 - b.Manager; (9) - 150 9001 ; 2006

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Dr. Arun Bajpai

15 3025 (P-44)

IS-3025-(P-34)

IS-3025(P-9) 153025(P-34)88 Chromotropic Acid Method

AAS APHA (22[™] Edi.)3500 Na B

GPED approved schedule II auditor

TEST CERTIFICATE FOR RAW EFFLUENT WATER

Customer's Name and Address :		QR/5.10/32 Page: 1 of <u>1</u>
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS	PVT. LTD. Test Report N	o. : PL/LT 0072
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date	: 06/07/2017
INDIA. PIN CODE - 394510	Customer's Re	H. W.O. No. FLS001001 DTD 21,07.2016
Description of Sample : Water Sample	Quantity/No. of Samples	: 05 Lit/One
Date of Sampling : 24/06/2017	Sampling Procedure	: Grab
Sampling By Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	i QC
Sample Receipt Date : 26/06/2017	Lab ID	: LT/1706/13
Packing/ Seal : Sealed	Test Parameters	: As per table
Date of Starting of Test : 26/06/2017	Date of Completion of Test	: 01/07/2017

TEST RESULT

	SR,	TEST PARAMETERS	Libiren.	RESULT	
	NO	TLOT FARAMETERS	UNIT	RAW EFFLUENT (CTBD TANK) WTP 06	TEST METHOD
ing sing sa Kalat Tao taokat - ta	1.	рН		8.93	IS3025(P-11)83Re.02
	2.	Total Suspended Solids	mg/L	60	IS3025(P-17)84Re,02
	3.	Total Dissolved Solids	mg/L	i 829	IS3025(P-16)84Re.02
	4	Total Hardness as CaCO3	mg/L	328	IS3025(P-21)84EDTARe.02
	5.	Alkalinity	mg/L	192	IS3025(P-23)86Re.03
en de la filipación V Alta Marina das	6.	Chloride as Cl	mg/L	149	IS3025(P-32)88Re.99 Argentometric method
	7	Calcium as Ca	mg/L	32.0	IS3025(P-40)91Re.03 EDTA Titrimetric method
n Onanger Distantion (20 Viewer distant)	8.	Magnesium as Mg	mg/L	59.52	IS3025(P-46)94Re,99 EDTA method
in an	9.	Oil & Grease	mg/L	0.70	APHA(22 nd Edi)5520 D
	10.	Iron as Fe	mg/L	0.58	AAS APHA(22 [™] Edi)3111 B
reito r urtukon	11	Sulphate as SO4	mg/L	65.2	APHA(22 rd Edi)4500 SO ₄ E Turbidimetric method
त्तः अस्त्रोर्थप्रचे हेन्द्र १९ सन्द्र दिस्त इन्द्रन	_12,	Silica as SiO ₂	, mg/L	18.76	APHA(22 [™] Edi)4500 Si C
reponde (s. 1 Marine (s. 1947)	13.		mg/L	82	APHA(22 ^{id} Edi) 5520-D OPEN REFLUX
n an Angel a Angel an Angel an Ange	14°.	BOD (3 Days @ 27 °C)	mg/L	30	IS 3025 (P-44)

CONTROLLED IN BOL & Below Detection Limit, Minimum Detection Limit: Oil & Grease: 1.0 mg/L

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• GPCB apprved schedule II auditor

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Head Office: 544, Belgium Towel Marg Roadsport Ismebjede total and Buset Sabara Sabara Sabara (03) 124, 2601224, 2601106 Branch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmall.com, Website : www.polluconlab.com

TEST CERTIFICATE FOR RAW EFFLUENT WATER

	Cust	omer's Name and Address :	·		QR/5.10/32 Page: 1 of 1
	M/S	L & T SPECIAL STEELS AND H HAZIRA MANUFACTURING CO POST: BHATHA, DIST: SURAT	MPLEX.	NGS PVT. LTD.	Test Report No. PL/LT 0073 Issue Date : 06/07/2017
	- 	INDIA. PIN CODE - 394510			Customer's Ref. W.O. No. FL5001001
					Customer's Rel. : DTD 21.07.2016
	Desc	ription of Sample : Water	Sample	Quantity/No. of	Samples : 05 Lit/One
a sina di Galanda da d	- Date	of Sampling : 24/06	/2017	Sampling Proces	
	Sam		Laboratories Pv		
	e Ditayayî	ple Receipt Date : 26/06			
				Lab ID	: LT/1706/14
				Test Parameters	: As per table
		of Starting of Test : 26/06/	/2017	Date of Complet	ion of Test : 01/07/2017
		nahya Namalata, mara y	<u></u>	<u>EST RESULT</u>	
	SR.	TECT DADAMETERS		RESULT	
n de general poles. Gregoria de la contra de la	NO	TEST PARAMETERS	UNIT	RAW WATER	TEST METHOD
	1.	pH		WTP 01 8.72	
an Alexandra Martin Santa	2.	Turbidity	NTU	3.58	IS3025(P-11)83Re.02
	3.	Electric Conductivity	µmho/cm	386	АРНА 2130-В АРНА 2510
	4.	Total Suspended Solids	mg/L	32	IS3025(P-17)84Re.02
	5.	Total Dissolved Solids	mg/L	212	IS3025(P-16)84Re.02
	6.	Total Hardness as CaCO ₃	mg/L	134	IS3025(P-21)84EDTARe.02
	7.	Residual Chlorine	mg/L	< 0.1	APHA(22 nd Edi)4500 Cl G-DPD Calorimetric
	8.	Dissolved Oxygen		· · · · · · · · · · · · · · · · · · ·	method
	9.	Calcium as Ca	mg/L	5.6	IS3025(P-38)89Re.99Titrimetric method 153025(P-40)91Re.03EDTA Titrimetric
	10.	Magnesium as Mg	mg/L	24.80	method
ng philosophie a strain Angel Shang Shang Sh		Silica as SiO ₂	mg/L	17.28	IS3025(P-46)94Re.99EDTA method
an tagan tagan Tagan tagan taga	12	Fluoride as F	mg/L	5.46	APHA(22 nd Edi)4500 Si C
	13.	Ammohical Nitrogen as NH ₃	mg/L	BDL*	APHA(22 nd Edi) 4500 F D SPANDS Method
n in word n Owegetete	14	Temperature	mg/L	1.92	IS-3025-(P-34)
n MCHUNNER Gesennenn	15	Nitrate Nitrogen as NO ₃	°C	29	IS-3025(P-9)
	16,	Total Alkalinity	mg/L	0.58	IS3025(P-34)88Chromotropic Acid Method
elan terebedi MARKINGEN K	17.	Sulphate as SO ₄	mg/L mg/L	122	IS3025(P-23)86Re.03
Contratoron NACOLICIA M		Chloride as Cl	mg/L	22.60	APHA(22 nd Edi)4500 SO4 E
COMPANDED STORE	19.	Iron as Fe	mg/L mg/L	38.49	IS3025(P32)88Re.99
가 있는 것 같은 것 같은 것 고려한 것이라 있는 것 같은 것		Below Detection Limit, Minimum Detection Lin	mg/L	0.013	AAS APHA(22 nd Ed!)3111 B

BDL*: Below Detection Limit, Minimum Detection Limit: Fluoride as F: 0.01 mg/L

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2 Dr. Arun Bajpai

• ISO 14001 : 2004 - 0 Manager : (20)7 • ISO 9001 : 2008

10.2 Head Office : 544, Belgium Towel Ring Huadeport Isman But Bater But to Bater B Branch Office : Plot No. 5/6, Pollucon House, Opp. Baiali Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007 Tele: (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com l ateña

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TEST CERTIFICATE FOR RAW EFFLUENT WATER

	Custo	mer's Name and Address :				QR/5.10/32 Page: 1 of 1
		L & T SPECIAL STEELS AND HEAT HAZIRA MANUFACTURING COMP POST: BHATHA, DIST: SURAT, GU	PLEX,	INGS PVT. LTD.	Test Report I Issue Date	
		INDIA. PIN CODE – 394510			Customer's R	ef. : W.O. No. FLS001001 DTD 21.07.2016
997 - 1972 - 1973 - 1973 - 1973 - 1973 - 1973 - 1973 - 1973 - 1973 - 1973 - 1975 - 1975 - 1975 - 1975 - 1975 -	1					
ر المراجع (المراجع) مرجع المستحد المراجع	Descri	ption of Sample : Water Sa	mple	Quantity/No. c	f Samples	: 05 Lit/One
	Date d	of Sampling : 24/06/20	17	Sampling Proc	edure	: Grab
	Sampl	ing By : Pollucon Lab	oratories F	vt. Ltd. Protocol (purp	ose)	1 QC
	Sampi	e Receipt Date : 26/06/20	17	Lab ID		; LT/1706/15
	Packin	g/ Seal : Sealed		Test Paramete	re	As per table
	Date o	of Starting of Test : 26/06/20	17	the second s		
	. <u> </u>			Date of Compl		: 01/07/2017
		$\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}$	<u></u>	<u>'EST RESULT</u>		
	SR. NO,	TEST PARAMETERS	UNIT	RESULT TREATED EFFLUENT (RO PERMEATE) WTP 05	GPCB LIMIT#	TEST METHOD
	1.	Colour	Co-pt	1 20	100 Co-pt	IS3025(P-4)83Re.02
	2	рН		9.28	6.5 to 8.5	IS3025(P-11)83Re.02
	3.	Total Suspended Solids	_mg/L_	34	100 mg/L	IS3025(P-17)84Re.02
	4.	Total Dissolved Solids	_mg/L_	47	2100 mg/L	IS3025(P-16)84Re.02
	5.	Chloride as Cl	_mg/L	9.99	NS*	IS3025(P-32)88Re.99 Argentometric method
	6.	Calcium as Ca	mg/L	2.4	NS*	IS3025(P-40)91Re.03 EDTA Titrimetric method
	7.	Magnesium as Mg	mg/L	1.2	NS*	IS3025(P-46)94Re.99
elestationen Antonionen	8.	Oil & Grease	mg/L	BDL*	10 mg/L	EDTA method APHA(22 nd Edi)5520 D
	9.	Sulphate as SO ₄	mg/L	2.03	NS*	APHA(22nd Edl)4500 SO4 E
	10.	Silica as SiO ₂	mg/L	3.06	NS*	Turbidimetric method APHA(22 nd Edi)4500 Si C
, 20 2049년 위험(19 3년 1997년 - 1997년 - 1997년 1997년 - 1997년	_11,	COD	mg/L	26	100 mg/L	APHA(22 Ed)+500 SFC APHA(22 ^{pd} Edi) 5520-D OPEN REFLUX
a na zakraje i Selitan ingeleta	_ 12	BOD (3 Days @ 27 °C)	mg/L	8	30 mg/L	IS 3025 (P-44)
vialacius Térretalez	13.	Ammonical Nitrogen as NH ₃	mg/L	6.79	50 mg/L	IS-3025-(P-34)
y na paant Anteistrat	14.	Temperature	ို	28	40 °C	IS-3025(P-9)
PRODUCT CULUCIAN CONTROL	<u>.</u> 15	Iron as Fe	mg/L	0.35	1 mg/L	AAS APHA(22 nd Edi)3111 B
그는 그는 가지 않는 것이 같다.	12	Mithacka Mithaca and an Alco		· · · · · · · · · · · · · · · · · · ·		

AAS APHA (22nd Edl.)3500 Na B BDL*: Below Detection Limit, Minimum Detection Limit: Oil & Grease: 1.0 mg/L, Ammonical Nitrogen: 0.05 mg/L, Nitrate Nitrogen: 0.15 mg/L i Kachi Chaji Yos NS*: Not specified #Details given by client. an haitean i

mg/L

%

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Nitratè Nitrogen as NO.

Sodium as Na

• GPCB apprved

Dr. Arun Bajpai

NS*

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schedule II auditor

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• ISO 14001 : 2004 - BIMANASEF: (9) • ISO 9001 : 2008

IS3025(P-34)88

Chromotropic Acid Method

Head Office : 544, Belgium ToweNating Roled epopt Lansablant Electrific Releasing Conjenting active Conjenting Roled 2007 106 Branch Office Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com 151

TEST CERTIFICATE FOR RAW EFFLUENT WATER

Custo	omer's Name and Address :			QR/5.10 Page: 1 d
M/S	L & T SPECIAL STEELS AND HEA HAZIRA MANUFACTURING COM	VY FORGING	S PVT. LTD. Test	Report No. : PL/LT 0075
	POST: BHATHA, DIST: SURAT, G		โรรมด	Date : 06/07/2017
	INDIA. PIN CODE - 394510		Custo	Omer's Ref. : W.O. No, FLSD010 DTD 21.07.2016
Daan				
	iption of Sample : Water Sa		Quantity/No. of Samp	les : 05 Lit/One
a da an	of Sampling : 24/06/20		Sampling Procedure	: Grab
		boratories Pyt. Lt	(pulpese)	: QC
	le Receipt Date : 26/06/20	J 17	Lab ID	: LT/1706/16
	ng/ Seal : Sealed		Test Parameters	: As per table
Date	of Starting of Test : 26/06/20	017 	Date of Completion of	Test : 01/07/2017
		TES	T RESULT	
SR.	TEST PARAMETERS	UNIT	RESULT	
NO			RO REJECT WTP 12	TEST METHOD
1.	Colour	Co-pt	20	IS3025(P-4)83Re.02
2.	рН ————————————————————————————————————		7.92	IS3025(P-11)83Re.02
3. 4.	Total Suspended Solids	mg/L	5	IS3025(P-17)84Re.02
4. 5.	Total Dissolved Solids	mg/L	1428	IS3025(P-16)84Re.02
5. 6.	Chloride as Cl	l mg/L	356	IS3025(P-32)88Re.99 Argentometric method
ъ. 7.	Calcium as Ca	mg/L	116	IS3025(P-40)91Re.03 EDTA Titrimetric method
7. 8.	Magneslum as Mg	mg/L	88.08	IS3025(P-46)94Re.99 EDTA_method
<u> </u>	Oll & Grease	mg/L	BDL*	APHA(22 nd Edi)5520 D
9.	Iron as Fe	mg/L	0.018	AAS APHA(22 nd Edi)3111 B
10.	Sulphate as SO ₄	mg/L	84	APHA(22 nd Edi)4500 SO ₄ E Turbidime method
11.	Silica aš SiO ₂	mg/L	51.98	APHA(22 nd Edi)4500 SI C
12.	COD	'mg/L	86	APHA(22 nd Edi) 5520-D OPEN REFLUX
13.	BOD (3 Days @ 27 °C)	mg/L	20	IS 3025 (P-44)
14.	Ammonical Nitrogen as NH ₃	mg/L	2	IS-3025-(P-34)
15.	Temperature	°C	29	IS-3025(P-9)
16.	Nitrate Nitrogen as NO ₃	mg/L	1.82	IS3025(P-34)88 Chromotropic Acid Method
17.	Sodium as Na low Detection Limit, Minimum Detection Limit: Oil	%	38.11	AAS APHA (22 nd Edi.)3500 Na E

Oil & Grease: 1.0 mg/L, Ammonical Nitrogen: 0.05 mg/

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• GPCB apprved schedule II auditor Dr. Arun Bajpai

• ISO 14001 : 2004 60 Manager (0) • ISO 9001 : 2008

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1.12 Head Office : 544, Belgium Tower, Role Rolls Capartiles: Startersus & 338 Witicits (1) entlene (2012 4, 2601224, 2601106 Branch Office : Flot No: 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007 Tele: (0261) 2635750, 2635751 E-mail: pollucon@gmail.com, Website: www.polluconlab.com



TEST CERTIFICATE FOR RAW EFFLUENT WATER

Customer's Name and Address :		QR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No.	PL/LT 0087
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date 🔹	05/08/2017
INDIA, PIN CODE - 394510	Customer's Ref.	W.O : FL5001153 DTD:20.06.2017
	•	
Description of Sample : Water Sample Quantity/No. or	f Samples : 02	Lit/One

T				:
	Date of Sampling	12/07/2017	Sampling Procedure	Grab
	Sampling By	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose) :	QC
	Sample Receipt Date :	: 13/07/2017	Lab ID	LT/1707/14
	Packing/ Seal	Sealed	Test Parameters :	As per table
	Date of Starting of Test	: 13/07/2017	Date of Completion of Test	24/07/2017

SR. NO	TEST PARAMETERS	UNIT	RESULT RO REJECT WTP 12	TEST METHOD
1.	Colour	Co-pt	30	IS3025(P-4)83Re.02
2.	рH		8.13	IS3025(P-11)83Re.02
3.	Total Suspended Solids	mg/L	- 52	IS3025(P-17)84Re.02
4.	Total Dissolved Solids	mg/L	1118	IS3025(P-16)84Re.02
5.	Chloride as Cl	mg/L	348	IS3025(P-32)88Re,99 Argentometric method
6.	Calcium as Ca	mg/L	92	IS3025(P-40)91Re.03 EDTA Titrimetric method
7,	Magnesium as Mg	mg/L	62	IS3025(P-46)94Re.99 EDTA method
8.	Oil & Grease	mg/L	BDL*	APHA(22 nd Edi)5520 D
9.	Iron as Fe	mg/L	0.011	AAS APHA(22 nd Edi)3111 B
10.	Sulphate as SO ₄	mg/L	56	APHA(22 nd Edi)4500 SO₄ E Turbidimetric method
11,	Silica as SiOz	mg/L	28	APHA(22 nd EdI)4500 SI C
12.	COD	mg/L	90	APHA(22 nd Edi) 5520-D OPEN REFLUX
13.	BOD (3 Days @ 27 ℃)	mg/L	22	IS 3025 (P-44)
14.	Ammonical Nitrogen as NH ₃	mg/L	2.2	IS-3025-(P-34)
15,	Temperature	°C	29	IS-3025(P-9)
16.	Nitrate Nitrogen as NO ₃	mg/L	0.013	153025(P-34)88 Chromotropic Acid Method
17.	Sodium as Na	%	45.67	AAS APHA (22 nd Edi.)3500 Na B

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 GPCB apprved schedule II auditor

Dr. Arun Bajpai Lab Manager (Q) • OHSAS 18001 : 2007 • ISO 8001 : 2008 ● ISO 14001:2004

Head Office: 544, Belgium Tower, RAFRJAS OFFOLINEATBIES Integinal 393063 (35) Tele (326) 2455751, 2601224, 2601106 ranch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

TEST CERTIFICATE FOR RAW EFFLUENT WATER

Customer's Name and Address :	QR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD. HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Test Report No. : PL/LT 0086 Issue Date : 05/08/2017
INDIA. PIN CODE - 394510	Customer's Ref. : W.O : FLS001153 DTD:20.06.2017
	and the second secon
Description of Sample : Water Sample Quantity,	/No. of Samples : 02 Lit/One
Date of Sampling : 12/07/2017 Sampling) Procedure : Grab
Sampling By : Pollucon Laboratories Pvt. Ltd. Protocol	(purpose) : QC
Sample Receipt Date : 13/07/2017 Lab ID	LT/1707/13
Packing/ Seal : Sealed Test Para	ameters : As per table
Date of Starting of Test : 13/07/2017 Date of C	Completion of Test : 24/07/2017

TEST RESULT

				the set of the set of the	
SR. NO.	TEST PARAMETERS	UNIT	RESULT TREATED EFFLUENT (RO PERMEATE) WTP 05	GPCB LIMIT#	TEST METHOD
1.	Colour	Co-pt	10	100 Co-pt	IS3025(P-4)83Re.02
2.	рН		8.33	6.5 to 8.5	IS3025(P-11)83Re.02
3.	Total Suspended Solids	mg/L	38	100 mg/L	IS3025(P-17)84Re.02
4.	Total Dissolved Solids	_mg/L	44	2100 mg/L	IS3025(P-16)84Re.02
5.	Chloride as Cl	mg/L	7.49	NS*	IS3025(P-32)88Re.99 Argentometric method
6.	Calcium as Ca	mg/L	2.4	NS*	IS3025(P-40)91Re.03 EDTA Titrimetric method
<u>7.</u>	Magnesium as Mg	mg/L	1.32	NS*	IS3025(P-46)94Re.99 EDTA method
8.	Oil & Grease	mg/L	BDL*	10 mg/L	APHA(22 nd Edi)5520 D
9.	Sulphate as SO₄	mg/L	2.9	NS*	APHA(22 ^{od} Edi)4500 SO ₄ E Turbidimetric method
10.	Silica as SiOz	_mg/L	4.87	NS*	APHA(22 [™] Edi)4500 Si C
<u>1</u> 1.	COD	mg/L	29	100 mg/L	APHA(22 nd Edi) 5520-D OPEN REFLUX
12.	BOD (3 Days @ 27 °C)	mg/L	7	30 mg/L	IS 3025 (P-44)
_13.	Ammonical Nitrogen as NH ₃	mg/L	0.74	50 mg/L	IS-3025-(P-34)
14.	Temperature	°C	28	40 °C	IS-3025(P-9)
15.	Iron as Fe	mg/L	0.56	1 mg/L	AAS APHA(22 nd Edi)3111 B
16.	Nitrate Nitrogen as NO3	mg/L	0.21	NS*	IS3025(P-34)88 Chromotropic Acid Method
17.	Sodium as Na	%	55.36	60	AAS APHA (22 nd Edi.)3500 Na B

#Limit as per CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022 BDL*: Below Detection Limit, Minimum Detection Limit: Oil & Grease: 1.0 mg/L NS*: Not specified #Details given by client.

D H. T. Shah

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 Sec. 12 of Environmental (Protection) Act-1986
 Schedule II auditor

Dr. Arun Bajpai Lab Manager (Q) • OHSAS 18001 : 2007 • ISO 9001 : 2008

ISO 14001 : 2004

Head Office : 544, Belgium Tower, Nate: Rola, 1899. Lines: 1985. 56. 18, 1998. 199 3ranch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdaila Road, Surat-3905007 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

TEST CERTIFICATE FOR RAW EFFLUENT WATER

Customer's Name and Address :				QR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS A HAZIRA MANUFACTURI	Test Report No. :	PL/LT 0085		
POST: BHATHA, DIST: SI			Issue Date :	05/08/2017
INDIA. PIN CODE – 394			Customer's Ref. :	W.O: FL5001153 DTD:20.06.2017
				<u> </u>
Description of Sample : V	ater Sample	Quantity/No. of	Samples : 02	Lit/One
Date of Sampling : 1	2/07/2017	Sampling Proce	dure : Gr	ab
Sampling By	llucon Laboratories	Pvt. Ltd. Protocol (purpo	ose) : QC	5 10 10 10 10 10
Sample Receipt Date : 1	3/07/2017	Lab ID	: LT	/1707/12
Packing/ Seal 🛛 🚦 🕻 S	ealed	Test Parameter	s : As	per table
Date of Starting of Test : 1	3/07/2017	Date of Comple	ition of Test : 24	1/07/2017
		TEST RESULT		
SR.		RESULT		
NO TEST PARAMETERS	UNIT	RAW EFFLUEN (CTBD TANK) WT		ST METHOD
1. pH		8,15	IS302	5(P-11)83Re.02

1.	рН		8,15	IS3025(P-11)83Re.02
2.	Total Suspended Solids	mg/L	60	IS3025(P-17)84Re.02
.3.	Total Dissolved Solids	mg/L	828	IS3025(P-16)84Re.02
4.	Total Hardness as CaCO ₃	mg/L	328	IS3025(P-21)84EDTARe.02
5.	Alkalinity	mg/L	192	IS3025(P-23)86Re.03
6.	Chloride as Cl	mg/L	149	IS3025(P-32)88Re.99 Argentometric_method
7.	Calcium as Ca	mg/L	32.35	IS3025(P-40)91Re.03 EDTA Titrimetric method
8.	Magnesium as Mg	mg/L	59.14	IS3025(P-46)94Re.99 EDTA method
9.	Oil & Grease	mg/L	0.70	APHA(22 nd Edi)5520 D
10,	Iron as Fe	mg/L	0.58	AAS APHA(22 nd Edi)3111 B
11,	Sulphate as SO4	mg/L	65.27	APHA(22 nd Edl)4500 5O₄ E Turbidimetric method
12.	Silica as SiO2	mg/L	18.76	APHA(22 [™] Edi)4500 Si C
13.	COD	mg/L	82	APHA(22 nd Edi) 5520-D OPEN REFLUX
14.	BOD (3 Days @ 27 °C)	mg/L	30	IS 3025 (P-44)



H. T. Shah

 FSSAI Approved Lab
 Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

• GPCB apprved schedule II auditor Dr. Arun Bajpai Lab Manager (Q) •ISO 14001:2004 •OHSAS 18001:2007 •ISO 9001: 2008

Head Office : 544, Belgium Tower, Wile Rolas, George Bass Stante, Strat 399005. (G.) Pelge 225751, 2601224, 2601106 Branch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-390500 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

TEST CERTIFICATE FOR STACK GAS MONITORING

Customer's Name and Address :	QR/5.10/32B
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD. HAZIRA MANUFACTURING COMPLEX,	Page: 1 of 1 Test Report No. ; PL/LT 0090
POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date : 05/08/2017
INDIA. PIN CODE - 394510	Customer's Ref. : W.O : FLS001153 DTD:20.06.2017

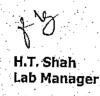
STACK DETAILS & RESULT

Location of Sampling :	FES Stack	Sampling Procedure	As Per Table
Date of Sampling	12/07/2017	Protocol (purpose)	Stack Gas Monitoring
Sampling By	Pollucon Laboratories Pvt, Ltd.		11:45
Sample Receipt Date	13/07/2017	en de la companya de la factoria de la companya de	LT/1707/03 [A - C]
Date of Starting of Test :	13/07/2017	Date of Completion	18/07/2017
Fuel#	Natural Gas	Stack Temperature	140 °C
Stack Height#	35 meter	Velocity	7.28 m/sec
Instrument Used & Calibration Due Date	Ecotech instrument stack sa	mpier ESS 100,Sl.No.13-1-	

· · · · · · · · · · · · · · · · · · ·					
SR NO		UNIT	RESULTS	GPCB NORM ^{**}	TEST / SAMPLING METHOD
	Particulate Matter	mg/Nm ³	BDL*	150	IS:11255 (Part-I):1985
2	Sulfur dioxide (as SO ₂)	ppm	2.49	100	IS:11255 (Part-II):1985
3	Oxides of Nitrogen (as NO _x)		15.75	50	IS:11255 (Part-VII):2005

A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022 BDL*: Below Detection Limit. Minimum Detection Limit : Particulate Matter: 10 mg/Nm³.

Results on 11 % O₂ Correction when Oxygen is greater than 11 % and 12 % CO₂ Correction when CO₂ is less than 12 % # Detailed given by customer



Dr. Arun Bajpai Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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TEST CERTIFICATE FOR RAW EFFLUENT WATER

Customer's Name and Address :		QR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No.	: PL/LT 0096
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date	; 22/08/2017
INDIA. PIN CODE - 394510	Customer's Ref.	W.0 : FLS001153 DTD:20.06.2017

Description of Sample		Water Sample	Quantity/No. of Samples	: 02 Lit/One	
Date of Sampling	:	12/08/2017	Sampling Procedure	: Grab	
Sampling By	, t .	Pollucon Laboratories PvL Ltd.	Protocol (purpose)	: QC	
Sample Receipt Date	· · ·	13/08/2017	Lab ID	: LT/1708/09	т. Эт. н
Packing/ Seal	. 8	Sealed	Test Parameters	: As per table	
Date of Starting of Test	;	13/08/2017	Date of Completion of Test	: 22/08/2017	

TEST RESULT

SR. NO	TEST PARAMETERS	UNIT	RESULT RAW EFFLUENT (CTBD TANK) WTP 06	TEST METHOD
1.	рН		8.96	IS3025(P-11)83Re.02
2.	Total Suspended Solids	mg/L	48	IS3025(P-17)84Re.02
3.	Total Dissolved Solids	mg/L	768	IS3025(P-16)84Re.02
4.	Total Hardness as CaCO3	mg/L	428	IS3025(P-21)84EDTARe.02
5.	Alkalinity	mg/L	348	IS3025(P-23)86Re.03
6.	Chioride as Cl	mg/L	111	IS3025(P-32)88Re.99 Argentometric method
7.	Calcium as Ca	mg/L	23.2	IS3025(P-40)91Re.03 EDTA Titrimetric method
В	Magnesium as Mg	mg/L	88.8	IS3025(P-46)94Re.99 EDTA method
9.	Oll & Grease	mg/L	BDL*	APHA(22 nd Edi)5520 D
10.	Iron as Fe	mg/L	0.43	AAS APHA(22 nd Edi)3111 B
11.	Sulphate as SO4	mg/L	25.76	APHA(22 ^{ad} Edi)4500 SO₄ E Turbidimetric method
12.	Silica as SiOz	mg/L	16,66	APHA(zz rd Edi)4500 Si C
13.	COD	mg/L	88	APHA(22 nd Edl) 5520-D OPEN REFLUX
14.	BOD (3 Days @ 27 °C)	mg/L	26	1S 3025 (P-44)

BDL*: Below Detection Limit, Minimum Detection Limit: Oil & Grease: 1.0 mg/L

Ф *() H. T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf

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TEST CERTIFICATE FOR RAW EFFLUENT WATER

ress :		QR/5.10/32 Page: 1 of 1
ELS AND HEAVY FORGINGS P	T. LTD. Test Report No.	: PL/LT 0097
TURING COMPLEX,	Issue Date	: 22/08/2017
- 394510	Customer's Ref.	W.0 ; FLS001153 DTD:20.06.2017
: Water Sample	Quantity/No. of Samples	: 02 Lit/One
: 12/08/2017	Sampling Procedure	: Grab
: Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	; QC
: 13/08/2017	Lab ID	: LT/1708/10
: Sealed	Test Parameters	: As per table
: 13/08/2017	Date of Completion of Test	: 22/08/2017
	ELS AND HEAVY FORGINGS P TURING COMPLEX, IST: SURAT, GUJARAT, - 394510 : Water Sample : 12/08/2017 : Pollucon Laboratories Pvt. Ltd, : 13/08/2017 : Sealed	ELS AND HEAVY FORGINGS PVT. LTD. Test Report No. TURING COMPLEX, Issue Date IST: SURAT, GUJARAT, Customer's Ref. - 394510 Customer's Ref. : Water Sample Quantity/No. of Samples : 12/08/2017 Sampling Procedure : Pollucon Laboratories Pvt. Ltd. Protocol (purpose) : 13/08/2017 Lab ID : Sealed Test Parameters

		· · · · · ·			
SR. NO.	TEST PARAMETERS	UNIT	RESULT TREATED EFFLUENT (RO PERMEATE) WTP 05	GPCB LIMIT#	TEST METHOD
1.	Colour	Co-pt	30	100 Co-pt	IS3025(P-4)83Re.02
2,			8.31	6.5 to 8.5	IS3025(P-11)83Re.02
3.	Total Suspended Solids	img/L	52	100 mg/L	IS3025(P-17)84Re.02
4.	Total Dissolved Solids	mg/L	80	. 2100 mg/L	IS3025(P-16)84Re.02
5.	Chloride as Cl	mg/L	13.99	NS*	153025(P-32)88Re.99 Argentometric method
6,	Calcium as Ca	mg/L	2.8	NS*	IS3025(P-40)91Re.03 EDTA Titrimetric method
7.	Magnesium as Mg	mg/L	0.72	NS*	IS3025(P-46)94Re.99 EDTA method
. 8,	Oil & Grease	mg/L	BDL*	10 mg/L	APHA(22 nd Edl)5520 D
9.	Sulphate as SO4	mg/L	3.08	NS*	APHA(22 nd Edi)4500 SO ₄ E Turbidimetric method
10,	Silica as SiO ₂	mg/L	6.4	NS*	APHA(22 nd Edi)4500 Si C
11.	COD	mg/L	28	100 mg/L	APHA(22 nd Edi) 552D-D OPEN REFLUX
12.	BOD (3 Days @ 27 °C)	mg/L	9,0	30 mg/L	IS 3025 (P-44)
13.	Ammonical Nitrogen as NH3	img/L	0.62	50 mg/L	IS-3025-(P-34)
14.	Temperature	°C	29	40 °C	IS-3025(P-9)
15.	Iron as Fe	mg/L	0.47	1 mg/L	AAS APHA(22 nd Edi)3111 B
16,	Nitrate Nitrogen as NO ₃	mg/L	0.22	NS*	IS3025(P-34)88 Chromotropic Acid Method
17.	Sodium as Na	%	58.02	60	AAS APHA (22 nd Edi.)3500 Na B

#Limit as per CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022 BDL*: Below Detection Limit, Minimum Detection Limit: Oil & Grease: 1.0 mg/L NS*: Not specified #Details given by client.

н.` T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf

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 Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

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TEST CERTIFICATE FOR RAW EFFLUENT WATER

Customer's Name and Add	ress		Page: 1 of 1		
M/S. L & T SPECIAL ST HAZIRA MANUFA		Test Report No.	: PL/LT 0098		
•		SURAT, GUJARAT,		Issue Date	; 22/08/2017
INDIA. PIN CODE			· · ·	Customer's Ref.	W.O: FLS001153 DTD:20.06.2017
Description of Sample	:	Water Sample	Quantity/No.	of Samples	: 02 Lit/One
Date of Sampling	:	12/08/2017	Sampling Proc	cedure	: Grab
Sampling By	1	Pollucon Laboratories Pvt. Ltd.	Protocol (pur	pose)	: QC
Sample Receipt Date	:	13/08/2017	Lab ID	•	: LT/1708/11
Packing/ Seal	:	Sealed	Test Paramet	ers	: As per table
Date of Starting of Test		13/08/2017	Date of Comp	eletion of Test	: 22/08/2017

	a ferrar a second s		1000001	
SR.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
NO		- Cital	RO REJECT WTP 12	
1.	Союцг	Co-pt	30	IS3025(P-4)83Re.02
2.	рН	-	8.05	IS3025(P-11)83Re.02
3.	Total Suspended Solids	mg/L	78	IS3025(P-17)84Re.02
4	Total Dissolved Solids	mg/L	2488	IS3025(P-16)84Re.02
5.	Chloride as Ci	mg/L	599	IS3025(P-32)B8Re.99 Argentometric method
6.	Calcium as Ca	mg/L	136	IS3025(P-4D)91Re.03 EDTA Titrimetric method
7.	Magnesium as Mg	mg/L	115	153025(P-46)94Re.99 EDTA method
8.	Oll & Grease	mg/L	BDL*	APHA(22 nd Edi)5520 D
9.	Iron as Fe	mg/L	0.017	AAS APHA(22 nd Edi)3111 B
10.	Sulphate as SO4	mg/L	138	APHA(22 nd Edi)4500 SO ₄ E Turbidimetric method
11.	Silica as SiO ₂	mg/L	92,6	APHA(22 nd Edi)4500 SI C
12.	COD	mg/L	128	APHA(22 nd Edi) 5520-D OPEN REFLUX
13.	BOD (3 Days @ 27 °C)	mg/L	32	IS 3025 (P-44)
14.	Ammonical Nitregen as NH3	mg/L	1.79	IS-3025-(P-34)
. 15.	Temperature	°C	29	IS-3025(P-9)
16.	Nitrate Nitrogen as NO ₃	mg/L	0,49	IS3025(P-34)88 Chromotropic Acid Method
17.	Sodium as Na	%	41.54	AAS APHA (22 nd Edi.)3500 Na B

BDL*: Selow Detection Limit, Minimum Detection Limit: Oll & Grease: 1.0 mg/L.

Φ 2 0 H. T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

OR/5 10/37

Note: This report is subject to terms & conditions mentioned overleaf

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

● ISO 14001:2004 ● OHSAS 18001:2007 ● ISO 9001: 2004 GPCB apprved

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ON /F 3 0/22

TEST CERTIFICATE FOR RAW EFFLUENT WATER

HAZIRA MANUFACI	ST: SURAT, GUJARAT,	Issue	Report No. e Date comer's Ref.	 PL/LT 0109 29/09/2017 W.0: FLS001153 DTD:20.06.2017
Description of Sample	: Water Sample	Quantity/No. of Samp	•	02 Lit/One
Date of Sampling	: 07/09/2017	Sampling Procedure		Grab
Sampling By	: Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	• • • • • •	QC
Sample Receipt Date	: 08/09/2017	Lab ID		LT/1709/08
Packing/ Seal	: Sealed	Test Parameters		As per table
Date of Starting of Test	: 08/09/2017	Date of Completion o		18/09/2017

SR,	TEST PARAMETERS	UNIT	RESULT	
NO	TEST PARAPIETERS	UNIT .	RAW EFFLUENT	TEST METHOD
1.	рH		8,67	IS3025(P-11)83Re.02
2.	Total Suspended Solids	mg/L	52	I\$3025(P-17)84Re.02
3.	Total Dissolved Solids	mg/L	616	IS3025(P-16)84Re.02
4.	Total Hardness as CaCO ₃	mg/L	216	I53025(P-21)84EDTARe.02
5.	Alkalinity	mg/L	192	IS3025(P-23)86Re.03
6.	Chloride as Cl	mg/L	79.97	IS3025(P-32)88Re,99 Argentometric method
7.	Calcium as Ca	mg/L	14.4	IS3025(P-40)91Re.03 EDTA Titrimetric method
8.	Magnesium as Mg	mg/L	43.2	IS3025(P-46)94Re.99 EDTA method
9.	Oil & Grease	mg/L	302	APHA(22 nd Edl)5520 D
10,	Iron as Fe	mg/L	0.51	AAS APHA(22 nd Edi)3111 B
11.	Sulphate as SO ₄	mg/L	17.6	APHA(22 nd Edi)4500 SO₄ E Turbidimetric method
12.	Silica as SiO _z	mg/L	19.2	APHA(22 nd Edi)4500 Si C
13.	COD	mg/L	90	APHA(22 nd Edi) 5520-D OPEN REFLUX
14.	BOD (3 Days @ 27 °C)	mg/L	28	IS 3025 (P-44)

H. T. Shah

SSAI Approved Labat Managery MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

• GPCB apprved schedule II auditor

Dr. Arun Bajpai Lab Manager (Q)

● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 9001 : 2008 Head Office : 544, Belgium Tower, Ringle Read Neprepoeals Busherin to Star Seconditions mentioned overleaf fice : Plot No. 5/6, Pollucon House. Opp. Balali industrial Soc. Old Spantingth Star Second Structure (30261) 2455751, 2601224, 2601106 ich Office : Plot No. 5/6, Pollucon House, Opp. Balaji industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007. Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmall.com, Website : www.polluconlab.com

TEST CERTIFICATE FOR RAW EFFLUENT WATER

QR/5.10/32 Page: 1 of 1 Customer's Name and Address : PL/LT 0110 Test Report No. • M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD. HAZIRA MANUFACTURING COMPLEX. 29/09/2017 **Issue Date** POST: BHATHA, DIST: SURAT, GUJARAT, W.O. No. FLS001001 INDIA. PIN CODE - 394510 Customer's Ref. DTD 21,07.2016 : 05 Lit/One Quantity/No. of Samples Description of Sample Water Sample Sampling Procedure Grab Date of Sampling 07/09/2017 QC Protocol (purpose) 1 Pollucon Laboratories Pvt, Ltd. Sampling By LT/1709/09 'Lab ID Sample Receipt Date 08/09/2017 As per table **Test Parameters** Sealed Packing/ Seal : 18/09/2017 08/09/2017 Date of Completion of Test Date of Starting of Test

TEST RESULT

SR.		RESULT		TEST METHOD
NO	TEST PARAMETERS	UNIT	RAW WATER	
1.	рН		9.25	IS3025(P-11)83Re.02
2.	Turbidity	NTU	2.02	АРНА 2130-В
3.	Electric Conductivity	µmho/cm	229	APHA 2510
4.	Total Suspended Solids	mg/L	36	I53025(P-17)84Re.02
5.	Total Dissolved Solids	mg/L	156	IS3025(P-16)84Re.02
6.	Total Hardness as CaCO ₃	mg/L	82	IS3025(P-21)84EDTARe.02
7.	Residual Chlorine	mg/L	<0.1	APHA(22 nd Edi)4500 CI G-DPD Calorimetric method
8.	Dissolved Oxygen	mg/L	5.2	IS3025(P-38)89Re.99Titrimetric method
9.	Calcium as Ca	mg/L .	16	IS3025(P-40)91Re.03EDTA Titrimetric method
10.	Magnesium as Mg	mg/L	10.08	IS3025(P-46)94Re,99EDTA method
11.	Silica as SiO ₂	mg/L	6.06	APHA(22 nd Edi)4500 Si C
12.	Fluoride as F	mg/L	BDL*	APHA(22 nd EdI) 4500 F D SPANDS Method
13.	Ammonical Nitrogen as NH3	mg/L	2.32	IS-3025-(P-34)
14.		°C	30	IS-3025(P-9)
15.	Nitrate Nitrogen as NO ₃	mg/L	0.76	IS3025(P-34)88Chromotropic Acid Method
. 16.	Total Alkalinity	mg/L	96	IS3025(P-23)86Re.03
17.	Sulphate as SO4	mg/L	5.8	APHA(22 nd Edi)4500 SO ₄ E
18.	Chloride as Cl	mg/L	30.99	IS3025(P32)88Re.99
19.	Iron as Fe	mg/L	0.017	AAS APHA(22 nd Edi)3111 B

BDL*:/Below Detection Limit, Minimum Detection Limit: Fluoride as F: 0.01 mg/L

H. T. Shah

 FSSAI Approved Lab an Principage MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

 GPCB apprved schedule II auditor Dr. Arun Bajpal Lab Manager (Q) • ISO 14001 : 2004 • OHSAS 18001 : 2007 • ISO 9001 : 2008

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TEST CERTIFICATE FOR RAW EFFLUENT WATER

Customer's Name and A	ddress :	QR/5.10/32 Page: 1 of 1
	TEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No. : PL/LT 0111
	ACTURING COMPLEX, DIST: SURAT, GUJARAT, DE 394510	Issue Date : 29/09/2017 Customer's Ref. W.O : FLS001153 ptp:20,06.2017
Description of Sample	: Water Sample Quantity/i	No. of Samples : 02 Lit/One
Date of Sampling		Procedure : Grab
Sampling By	; Pollucon Laboratories Pvt. Ltd. Protocol (purpose) : QC

			Dumping Procedure		Brub	
Sampling By		Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	:	QC	
Sample Receipt Date	. :	08/09/2017	Lab ID	. :	LT/1709/10	
Packing/ Seal	i	Sealed	Test Parameters	•	As per table	21
Date of Starting of Test		08/09/2017	Date of Completion of Test		18/09/2017	

TEST RESULT

SR. NO.	TEST PARAMETERS	UNIT	RESULT TREATED EFFLUENT (RO PERMEATE)	GPCB LIMIT#	TEST METHOD
1.	Colour	Co-pt	10	100 Co-pt	IS3025(P-4)83Re.02
2.	рН		8.10	6.5 to 8.5	IS3025(P-11)83Re.02
3.	Total Suspended Solids	mg/L	46	100 mg/L	IS3025(P-17)84Re.02
4.	Total Dissolved Solids	mg/L	4 4	2100 mg/L	IS3025(P-16)84Re.02
5.	Chloride as Ci	mg/L	12,99	NS*	153025(P-32)88Re.99 Argentometric method
6.	Calcium as Ca	mg/L ·	4.0	NS*	IS3025(P-40)91Re.03 EDTA Titrimetric method
7.	Magnesium as Mg	mg/L (2.88	NS*	IS3025(P-46)94Re.99 EDTA method
8.	Oil & Grease	mg/L	BDL*	10 mg/L	APHA(22 nd Edi)5520 D
9.	Sulphate as SO4	mg/L	2.76	NS*	APHA(22 nd Edi)4500 SO ₄ E Turbidimetric method
. 10.	Silica as SiOz	mg/L 🐰	2.84	NS*	APHA(22 nd Edi)4500 Si C
11.	COD	mg/L	24	100 mg/L	APHA(22 nd Edi) 5520-D OPEN REFLUX
· 12.	BOD (3 Days @ 27 °C)	mg/L1	8.0	30 mg/L	IS 3025 (P-44)
13,	Ammonical Nitrogen as NH ₃	mg/L	0.56	50 mg/L	IS-3025-(P-34)
14.	Temperature	°C	30	40 °C	IS-3025(P-9)
15.	Iron as Fe	mg/L	0.21	1 mg/L	AAS APHA(22 nd Edi)3111 B
16.	Nitrate Nitrogen as NO ₃	mg/L	0.019	NS*	IS3025(P-34)88 Chromotropic Acid Method
17,	Sodium as Na	%	54.55	60	AAS APHÀ (22 rd Edi.)3500 Na B

#Limit as per CC & A: AWH-87212 Issued Date; 20/07/2017 Valid up to: 22/05/2022 BDL* Balow Detection Limit, Minimum Detection Limit: Oil & Grease: 1.0 mg/L

NS*: Not specified #Details given by client.

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7SSAI Approved Lail abr Manager MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

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Dr. Arun Bajpai Lab Manager (Q) ● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 9001 : 2008

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Head Office : 544, Belgium Tower, Ring/Bted,T0pprenest/B6998ard, Strat-395003. (Guj.) Tele : (0261) 2455751, 2601224, 2601106 ich Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

TEST CERTIFICATE FOR RAW EFFLUENT WATER

Customer's Name and Addre	25S ;	QR/5:10/32 Page: 1 of 1
M/S. L & T SPECIAL STE	ELS AND HEAVY FORGINGS PVT. LTD.	Test Report No. : PL/LT 0112
HAZIRA MANUFACI POST: BHATHA, DI INDIA. PIN CODE -	ST: SURAT, GUJARAT,	Issue Date : 29/09/2017 Customer's Ref. W.O : FLS001153 DTD:20.06.2017
Description of Sample	: Water Sample Quantity	/No, of Samples : 02 Lit/One
Date of Sampling	: 07/09/2017 Sampling	g Procedure : Grab
Sampling By	; Pollucon Laboratories Pvt. Ltd. Protocol	(purpose) : QC
Sample Receipt Date	: 08/09/2017 Lab ID	: LT/1709/11
Packing/ Seal	: Sealed Test Par	ameters : As per table
Date of Starting of Test	: 08/09/2017 Date of	Completion of Test : 18/09/2017

TEST RESULT

· · · · ·	······	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
SR.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
NO			RO REJECT	
1.	Colour	Co-pt	40	153025(P-4)83Re.02
2.	рН		8.03	IS3025(P-11)83Re.02
3.	Total Suspended Solids	mg/L	84	IS3025(P-17)84Re.02
4.	Total Dissolved Solids	mg/L	2832	IS3025(P-16)84Re.02
5.	Chloride as Cl	mg/L	652	IS3025(P-32)88Re.99 Argentometric method
6.	Caicium as Ca	mg/L	160	IS3025(P-40)91Re.03 EDTA Titrimetric method
7.	Magnesium as Mg	mg/L	168	IS3025(P-46)94Re.99 EDTA method
8.	Oll & Grease	mg/L	BDL*	APHA(22 nd Edi)5520 D
9.	Tron as Fe	mg/L	0.021	AAS APHA(22 nd Edl)3111 B
10.	Sulphate as SO4	mg/L	144	APHA(22 nd Edi)4500 SO₄ E Turbidimetric method
11.	Silica as SiO ₂	mg/L	84	APHA(22 nd Edi)4500 SI C
12.	COD	mg/L	108	APHA(22 nd Edi) 5520-D OPEN REFLUX
13.	BOD (3 Days @ 27 °C)	mg/L	34.0	IS 3025 (P-44)
14.	Ammonical Nitrogen as NH ₃	mg/L	1.59	IS-3025-(P-34)
:15.	Temperature	°C	30	IS-3025(P-9)
16.	Nitrate Nitrogen as NO ₃	mg/L	.0.58	IS3025(P-34)88 Chromotropic Acid Method
17	Sodium as Na		40.54	AAS APHA (22 nd Edi.)3500 Na B

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FSSAI Approved Lehab Mapage by MoEF. New Delhi Under

Dr. Arun Bajpai Lab Manager (Q) ● ISO 14001:2004 ● OHSAS 18001:2007 ● ISO 9001: 2005

Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor

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Head Office : 544, Belgium Tower, Ring dead Naprepladas Bulb satio dorm 595005 (Gul.) Tele : (0261) 2455751, 2601224, 2601106 nch Office : Plot No. 5/6, Pollucon House, Opp. Balait Industrial Soc., Old Shantinath Slik Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007, Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com $V = 2\pi^{-1}$

Annexure 6:

Raw Sewage and Treated Sewage Analysis Reports

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TEST CERTIFICATE FOR RAW SEWAGE WATER

Customer's Name and Address :		OR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HAZIRA MANUFACTURING (HEAVY FORGINGS PVT. LTD.	Test Report No. : PL/LT 0045
POST: BHATHA, DIST: SURA	T, GUJARAT,	Issue Date : 01/05/2017
INDIA. PIN CODE - 394510.		Customer's Ref
Description of Sample : Wate	r Sample Ouantky/w	2. of Samples : 05 Lit/One
	4/2017 Sampling P	n ha stadione ta cala a la feta de la facilitada a ser en en esta a
	an Laboratorias Put. Ltd. Protocol. (pr	
	4/2017 Lab ID	: LT/1704/06
Packing/ Seal Seale Date of Starting of Test 1 22/0		
	TEST RESULT	npletion of Test. : 01/05/2017
SR. NO TEST PARAMETERS	UNIT RAW SEWAGE STF 01	TEST METHOD
1. pH	7.26	IS3025(P-11)83RE.02
2. Total Suspended Solids	mg/L 1#0	I53025(P-17)84Re.02
3. Total Dissolved Solids	mg/L 578	IS3025(P+16)848a.02

190

40

mg/L

mg/L

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COD

BOD (3 Days @ 27 °C)

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• FSEAI Approved Leb Manager Sec. 12 of Equinamental (Protection) Act-1986 Dr. Arun Bajpai • ISO 14001 : 2004 - 2010 Manager (20)7 • ISO 9007 : 2004

APHA(22rd Edi) 5520-DOPEN REFLUX

15 3025 (P-44)

Head Office : 544, Belgium Toweld and Roode Dort, Kissen Bas Steld Strat 38503. (Glibhile Bac (0284) 2455751, 2601224, 2601105 Branch Office : Ploi No. 5/6, Polhicon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navivan Circle, Udhane Magdalla Road, Surat 390500 riele : (0261), 2635750, 2635751, E-mail : pollucon@gmail.com, Website : www.polluconlab.com

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TEST CERTIFICATE FOR TREATED SEWAGE WATER

HAZIRA MANUFACT FOST: BHATHA, DI	5T: SURAT, GUJARAT,		Test Réport No. Issue Date	: PL/LT 0046 : 01/05/2017
INDIA. PIN CODE -	394510	1	Customer's Ref.	W.O. No. FLSCO1001 GTD 21.07.2015
Description of Sample	: Water Sample	Quantity/No. of S	amples	: 05 Lit/One
Date of Sampling	: 22/04/2017	Sampling Procedu	ure	: Grab
Sampling By	Pollucon Laboratories Put. Ltd.	Protocol (purpose	<u>a</u>)	: QC
Sample Receipt Date	: 22/04/2017	Lab ID	lant gan a	: LT/1704/07
Packing/ Seal	: Sealed	Test Parameters	e Al an	: As per table
Date of Starting of Test	: 22/04/2017	Date of Completi	on of Test	: 01/05/2017

SR. NO	TEST PARAMETERS	UNIT	RESULT TREATED SEWAGE STP 02	GPĆB LIMIT.	TEST METHOD
1.	рН	-	7.58	Not Specified	153025(P-11)83Re.02
2	Total Suspended Solids	тg/L	24	30	IŠ3025(P-17)84R≘,02
3.	Total Dissolved Solids	mg/L	599	Not Specified	IS3025(P-16)84Re.02
4.	COD	mg/L	72	Not Specified	APHA(22 ^{#)} E(II) 5520-DOPEN REFLUX
5	BOD (3 Days @ 27 °C)	mg/L	18	< 20	IS 3025 (P-44)
6,	Free Residual Chlorine	tng/L	< 0.1	Min 0.5	APHA(22** Edi)4500 Cl G-DPD Calorimetric method

BDL+: Below Detection Limit, Minimum Detection Limit, BOD: 10 mg/L, #Details over by clear.



• FSSAI Approv Labs Managelised by MuEE, New Delhi Under • CPCB apprved Sec. 12 of Environmental (Protection) Act-1985 schedule II auditor

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• ISO 14001:2004 . DOMANGURT (CD) . ISO 9001:2005

Head Office : 544, Belgium Towen, Reg Rosd (2011 Linsin) Bie State States States (0251) 2455761, 2601224, 2601106 Branch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shanilmain Silk Mill Lane, Navivan Circle, Udhana, Magdalla Road, Sural-3905007 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

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TEST CERTIFICATE FOR RAW SEWAGE WATER

POST: BHATHA, D	CTURING COMPLEX, IST: SURAT, GUJARAT,	Issue Date	: 20/05/2017
INDIA, PIN CODE	- 394510.	Customer's	Ref. W.O. No. FLS00100 DTD 21.07,2016
Description of Sample	: Water Sample	Quantity/No. of Samples	: 05 Lit/One
Date of Sampling	: 13/05/2017	Sampling Procedure	1 Grab
Sampling By	2 Pollucon Laboratories Pyt. Ltd.	Protocol (purpose)	: OC
Sample Receipt Date	: 15/05/2017	, Lab ID	: LT/1705/11
^p acking/ Seal	: Sealed	Test Parameters	: As per table
Date of Starting of Test	: 15/05/2017	Date of Completion of Test	: 20/05/2017
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		TEST PARAMETERS	UNIT	 	
	NO		UNII	RAW SEWAGE STP 01	TEST METHOD
.†.	1.	₽Ħ		7,15	IS3025(P-11)83Re.02
	2.	Total Suspended Solids	mg/L	82	IS3025(P-17)84Re.02
 	3,	Total Dissolved Solids	mg/L	609.	IS3025(P-16)84Re.02
	4,	COD	mg/L	132	APHA(2214 Edi) 5520-DOPEN REFLUX
	5.	BOD (3 Days @ 27 °C)	mg/L	34	IS 3025 (P-44)
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• FSSAI Approver Approver Barrier Sec. 12 of Environmental (Protection) Act-1986

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Dr. Arun Bajpal.

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Head Office : 544, Belgium ToweNDies Rost Open Lansablett EventinSuelce/SfillBr/FrienTehedO264N2455751, 2601224, 2601106 Branch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lene, Navjivan Circle, Udhana Magdalla Road, Surat 3905007. Tele : (0261) 2535750, 2635751 E-mail : pollucon@gmail.com, Websile : www.polluconlab.com ROLLIGC) NOAMERATORIES PUTE ID.

TEST CERTIFICATE FOR TREATED SEWAGE WATER

M/S. L& T SPECIAL STEELS AND HEAVY FORGINGS PVT HAZIRA MANUFACTURING COMPLEX,	Page: 1 of , LTD. Test Report No. : P1/LT 0057		
POST: BHATHA, DIST: SURAT, GHIARAT	Issue Date : 20/05/2017		
INDIA. PIN CODE - 394510	Cústomer's Ref. t W.O. No. F15001001 DTD 21:07,2015		
Description of Sample : Water Sample	Ginalia Martin Contractor		
Data of Samultan	Quantity/No: of Samples 1: 05 Lit/One Sampling Procedure: : Grab		
Samolino Ry	Direction of the second s		
Sample Receipt Date : 15/05/2017			
arking/ Seal			
Date of Starting of Test 15/05/2017	Test Parameters : As per table Date of Completion of Test : 20/05/2017		

SR.	TEST PARAMETERS	UNIT	RESULT		
NO		0/141	TREATED SEWAGE STP 02	GPCB LIMIT.	TEST METHOD
1	pH		7.61	Not Specified	IS3025(P-11)83Re.02
2.	Total Suspended Solids	mg/L	22	30	IS3025(P-17)84Re.02
3	Total Dissolved Solids	mg/L	567	Not Specified	IS3025(P-16)84Re.0Z
4,	COD	mg/L	38	Not Specified	APHA(22 [#] Eai) 5520-DOPEN REFLUX
5 .	BOD (3 Days @ 27 °C)	mg/L	11	< 20	IS 3025 (P-44)
6. BDL*: 8-	Free Residual Chlorine low Detection Umit, Minimum Detecti	mg/L	0.8	Min 0.5	APHA(22 nd Edi)4500 Cl G-DPD Calorimetric method

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Dr. Arun Bajpai • 150 14001 : 200 Lab Manager (Q) + ISO 8001 : 200

Read Office : 544, Belgium Tower, Reg Rngdeger, kirstar Ber Greyn Ster (385030), Gtlehrtefred (3851), 265751, 2601224, 2601106 Branch Office : Plot No. 5/6, Pollucon House, Opp. Balait Industrial Soc., Old Shantinath Silk Mill Lane, Navivan Circle, Udhana Magdalla Road, Surat Tele : (0261) 2635750, 2685751 E-mail : ppl/ucon@gmail.com, Website : www.polluconlab.com

TEST CERTIFICATE FOR RAW SEWAGE WATER

Customer's Name and Address :	QR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS P	VT. LTD. Test Report No. : PL/LT 0070
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date : 06/07/2017
INDIA. PIN CODE - 394510.	Customer's Ref. W.O. No. FL5001001
Description of Sample : Water Sample	Quantity/No. of Samples : 02 Lit/One
Date of Sampling : 24/06/2017	Sampling Procedure : Grab
Sampling By) : Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)
Sample Receipt Date : 26/06/2017	Lab ID : LT/1706/11
Packing/ Seal : Sealed	Test Parameters : As per table
Date of Starting of Test : 26/06/2017	Date of Completion of Test : 01/07/2017

TEST RESULT

SR,			RESULT	TEST METHOD	
NO	TEST PARAMETERS	UNIT	RAW SEWAGE STP 01		
1.	pH 0.1		7,49	IS3025(P-11)83Re.02	
2.	Total Suspended Solids	mg/L	102	IS3025(P-17)84Re.02	
3.	Total Dissolved Solids	mg/L	525	IS3025(P-16)84Re.02	
4	COD	mg/L	125	APHA(22 nd Edi) 5520-DOPEN REFLUX	
5.	BOD (3 Days @ 27 °C)	mg/L	28	IS 3025 (P-44)	

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Head Office : 544, Belgium ToweNorty Thisdeport Isisch Betstelten Busetel Black Battel Black Battel Branch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc.; Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-390500 Tele: (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com 44.4

TEST CERTIFICATE FOR TREATED SEWAGE WATER

M/S. L & T SPECIAL S HAZIRA MANUE	TEELS AND HEAVY FORGINGS P ACTURING COMPLEX,	VT. LTD.	Test Report No.	Page: 1 of : PL/LT 0071
POST: BHATHA,	DIST: SURAT, GUJARAT,		Issue Date	: 06/07/2017
INDIA. PIN COD	E – 394510		Customer's Ref.	W.O. No. FLS001001 DTD 21,07.2016
Description of Sample	: Water Sample	Quantity/No. of	Samples	05 Lit/One
Date of Sampling	: 24/06/2017	Sampling Proce		Grab
Sampling By	Pollucon Laboratories Pvt. Ltd.	Protocol (purpo		QC
Sample Receipt Date	: 26/06/2017	Lab ID		LT/1706/12
Packing/ Seal	: Sealed	Test Parameter		As per table
Date of Starting of Test	: 26/06/2017	Date of Comple		01/07/2017

e de la company de la comp La company de la company de				TEST RESULT		
	SR.	TEST PARAMETERS		RESULT		
	NO)	UNIT	TREATED SEWAGE STP 02	GPCB LIMIT#	TEST METHOD
	1.	рН		8.07	Not Specified	IS3025(P-11)83Re.02
	2	Total Suspended Solids	mg/L	26	30	IS3025(P-17)84Re.02
	3.	Total Pissolved Solids	mg/L	556	Not Specified	IS3025(P-16)84Re.02
i si gante pri Se di taganging	4	COD	mg/L	42	Not Specified	APHA(22 nd Edi) 5520-DOPEN REFLUX
	5.	BOD (3 Days @ 27 °C)	mg/L	10	< 20	IS 3025 (P-44)
lik-da en en el 6 esemble y el ma 2 el marche y el marche	. .6	Free Residual Chlorine	mg/L	0.7	Min 0.5	APHA(22 nd Edi)4500 Cl G-DPD Calorimetric method

Base and B on Limit, BOD: 10 mg/L, #Details given by client. ANY N 1 - 14**1** 11

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Dr. Arun Bajpai • ISO 14001 ; 2004 - 5 MAUAGET (Q) • ISO 9001 : 2008

Branch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007 Tele: (0261) 2635750, 2635751 E-mail ; pollucon@gmail.com, Website ; www.polluconlab.com

TEST CERTIFICATE FOR RAW SEWAGE WATER

Customer's Name and Address :	QK/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No. : PL/LT 0083
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date : 05/08/2017
INDIA. PIN CODE - 394510.	Customer's Ref. : W.O : FLS001153 DTD:20.06.2017
Description of Sample : Water Sample Quantity/No. o	Samples : 02 Lit/One
Date of Sampling : 12/07/2017 Sampling Proce	dure : Grab
Sampling By : Pollucon Laboratories Pvt. Ltd. Protocol (purpo	ose) : QC
Sample Receipt Date : 13/07/2017 Lab ID	: LT/1707/10
Packing/ Seal Test Paramete	s : As per table
Date of Starting of Test : 13/07/2017 Date of Complete	etion of Test : 24/07/2017

TEST RESULT

SR. NO	TEST PARAMETERS	UNIT	RESULT RAW SEWAGE STP 01 Inlet	TEST METHOD
1.	рН		7.42	IS3025(P-11)83Re.02
2,	Total Suspended Solids	mg/L	44	IS3025(P-17)84Re.02
3.	Total Dissolved Solids	mg/L	946	IS3025(P-16)84Re.02
4.	COD	mg/L	92	APHA(22 nd Edi) 5520-DOPEN REFLUX
5.	BOD (3 Days @ 27 °C)	mg/L	26	IS 3025 (P-44)

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Dr. Arun Bajpai Lab Manager (Q) ● ISO 14001:2004 ● OHSAS 18001:2007 ● ISO 8001: 2008.

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TEST CERTIFICATE FOR TREATED SEWAGE WATER

Customer's Name and Address :			QR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS P	νт. LTD. Τ	est Report No.	: PL/LT 0084
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Ī	sue Date	: 05/08/2017
INDIA. PIN CODE - 394510	C	ustomer's Ref.	W.O: FL5001153 DTD:20.06.2017
Description of Sample : Water Sample	Quantity/No. of Sa	imples :	02 Lit/One
Date of Sampling : 12/07/2017	Sampling Procedu	re :	Grab
Sampling By : Pollucon Laboratories Pvt. Ltd.	Protocol (purpose) :	QC
Sample Receipt Date : 13/07/2017	Lab ID		LT/1707/10
Packing/ Seal : Sealed	Test Parameters	•	As per table
Date of Starting of Test : 13/07/2017	Date of Completio	n of Test	24/07/2017

SR.	TEST PARAMETERS		RESULT		
NO		UNIT	TREATED SEWAGE STP 02 Outlet	GPCB LIMIT#	TEST METHOD
1.	рН		7.23	Not Specified	1S3025(P-11)83Re.02
2.	Total Suspended Solids	mg/L	24	30	IS3025(P-17)84Re.02
3.	Total Dissolved Solids	·mg/L	762	Not Specified	IS3025(P-16)84Re.02
4.	COD	mg/L	39	Not Specifled	APHA(22 nd Edi) 5520-DOPEN REFLUX
5.	BOD (3 Days @ 27 °C)	mg/L	8.0	< 20	IS 3025 (P-44)
6.	Free Residual Chlorine	mg/L	0.7	Min 0.5	APHA(22 nd EdI)4500 Cl G-DPD Calorimetric method

TEST RESULT

#Limit as per CC & A: AWH-87212 Issued Date: 20/07/2017 Valid up to: 22/05/2022

H. T. Shah

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Dr. Arun Bajpai Lab Manager (Q) • OHSAS 18001 : 2007 • ISO 9001 : 2008 • ISO 14001 : 2004

Head Office : 544, Belgium Tower, KRig RDals, Gpp: Linesubjectstanters: a 595005. (Conf.)=ntil9: 628172955751, 2601224, 2601106 3ranch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com



TEST CERTIFICATE FOR RAW SEWAGE WATER

Customer's Name and Address :	QR/5.10/32 Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD. HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Test Report No. : PL/LT 0094 Issue Date : 22/08/2017
INDIA. PIN CODE - 394510.	Customer's Ref. : W.O : FL5001153 DTD:20.05.2017

Description of Sample		Water Sample	Quantity/No. of Samples	;	02 Lit/One
Date of Sampling	÷	12/08/2017	Sampling Procedure		Grab
Sampling By		Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)		QC
Sample Receipt Date	5	13/08/2017	Lab ID	•	LT/1708/07
Packing/ Seal	:	Sealed	Test Parameters	1	As per table
Date of Starting of Test	:	13/08/2017	Date of Completion of Test		22/08/2017

TEST RESULT

SR.	- TEST PARAMETERS		RESULT	TEST METHOD	
NO		UNIT	RAW SEWAGE STP D1 Inlet		
1	рH		6.91	IS3025(P-11)83Re.02	
2.	Total Suspended Solids	mg/L	48	IS3025(P-17)84Re.02	
3.	Total Dissolved Solids	mg/L	914	IS3025(P-16)84Re.02	
4.	COD	mg/L	102	APHA(22 nd Edi) 5520-DOPEN REFLUX	
5.	BOD (3 Days @ 27 °C)	mg/L	28	IS 3025 (P-44)	

H. T. Shah Lab Manager Dr. Arun Bajpai Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf

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Head Office : 544, Belgium Tower, Ring Road, Opp. Linear Bus Stand, Surat-395003: (Guj.) Tele : (0261) 2455751, 2601224, 2601106 3ranch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-39050 Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

TEST CERTIFICATE FOR TREATED SEWAGE WATER

Custom	er's Name and Address :				QR/5.10/32 Page: 1 of 1
H P	& T SPECIAL STEELS ANI IAZIRA MANUFACTURING OST: BHATHA, DIST: SUR NDIA. PIN CODE - 39451	COMPLEX	ς,	Test Repo Issue Date Customer	e ; 22/08/2017
Descrip	otion of Sample ; Wa	ter Sample	e Quantity	//No. of Samples	: 02 Lit/One
Date of Sampli		/08/2017 ucon Laborat		g Procedure I (purpose)	: Grab : QC
Sample Packing	g/ Seal : Sea	/08/2017 iled /08/2017	Lab ID Test Pa	rameters Completion of Tes	: LT/1708/08 : As per table
			TEST RESULT		
SR. NO	TEST PARAMETERS	UNIT	RESULT TREATED SEWAGE STP 02 Outlet	GPCB LIMIT#	TEST METHOD
1	рН	-	7.38	Not Specified	IS3025(P-11)83Re.02
2.	Total Suspended Solids	mg/L	28	30	153025(P-17)84Re.02
3,	Total Dissolved Solids	mg/L	880	Not Specified	IS3025(P-16)84Re.02
4.	COD	mg/L	36	Not Specified	APHA(22 ^{re} Edi) 5520-DOPEN

11

0.6

mg/L #Limit as per CC & A: AWH-B7212 Issued Date: 20/07/2017 Valid up to: 22/05/2022

.mg/L

BOD (3 Days @ 27 °C)

Free Residual Chlorine

H. T. Shah Lab Manager

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6.

Dr. Arun Bajpai Lab Manager (Q)

IS 3025 (P-44)

APHA(22rd Edi)4500 CI G-DPD

Calorimetric method

< 20

Min 0.5

Note; This report is subject to terms & conditions mentioned overleaf

• GPCB apprved ● ISO 14001 : 2004 ● OHSAS 16001 : 2007 ● ISO 9001 : 2008 ●FSSAI Approved Lab ● Recognised by MoEF. New Delhi Under schedule II auditor Sec. 12 of Environmental (Protection) Act-1986

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TEST CERTIFICATE FOR RAW SEWAGE WATER

Customer's Name and Add	ress :			Page: 1 of 1
	EELS AND HEAVY FORGINGS	S PVT. LTD.	Test Report No.	: PL/LT 0107
HAZIRA MANUFAC	CTURING COMPLEX,		Issue Date	: 29/09/2017
POST: BHATHA, D INDIA. PIN CODE	IST: SURAT, GUJARAT, – 394510.		Customer's Ref.	W.O: FLS001153 DTD:20.06.2017
<u> </u>		· · · · · · · · · · · · · · · · · · ·		
Description of Sample	: Water Sample	Quantity/No. o		: 02 Lit/One
Date of Sampling	: 07/09/2017	Sampling Proc	edure	: Grab
Sampling By	Pollucon Laboratories Pvt. Li	a. Protocol (purp	ose)	: QC
Sample Receipt Date	: 08/09/2017	Lab ID		: LT/1709/06
Packing/ Seal	: Sealed	Test Paramete	er s	: As per table
Date of Starting of Test	: 08/09/2017	Date of Comp	letion of Test	: 18/09/2017

TEST RESULT

	TEST PARAMETERS		RESULT	TEST METHOD	
SR. NO		UNIT	RAW SEWAGE STP_Iniet		
1.	рН		6.99	IS3025(P-11)83Re.02	
2.	Totai Suspended Solids	mg/L	138	IS3025(P-17)84Re.02	
3.	Total Dissolved Solids	, mg/L	632	IS3025(P-16)84Re.02	
4.	COD	mg/L	114	APHA(22 [™] Edi) 5520-DOPEN REFLUX	
5.	BOD (3 Days @ 27 °C)	mg/L	34	IS 3025 (P-44)	

H. T. Shah

FSSAI Approved Lab Manager (Q)
 Sec. 12 of Environmental (Protection) Act-1986 schedule II auditor
 Schedule II auditor
 Lab Manager (Q)

Dr. Arun Bajpai

Head Office : 544, Belgium Tower, Ring Read HopephotalsBub Standy Serial Sconditions mentioned overleaf ranch Office : Plot No. 5/6, Pollucon House, Opp. Balaji Industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007. Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com



SO /F 40/01

TEST CERTIFICATE FOR TREATED SEWAGE WATER

HAZIRA MANUFA	EELS AND HEAVY FORGINGS P CTURING COMPLEX,	VT. LTD. Test Report No Issue Date	QR/5.10/32 Page: 1 of 1 . : PL/LT 0108 : 29/09/2017
POST: BHATHA, D INDIA. PIN CODE	15T: SURAT, GUJARAT, 394510	Customer's Ref	W.O: FLS001153 DTD:20.06.2017
Description of Sample	: Water Sample	Quantity/No. of Samples	: 02 Lit/One
Date of Sampling	: 07/09/2017	Sampling Procedure	: Grab
Sampling By	Pollucon Laboratories Pvt. Ltd.	Protocol (purpose)	: QC
Sample Receipt Date	: 08/09/2017	Lab ID	: LT/1709/07
Packing/ Seal	: Sealed	Test Parameters	: As per table
Date of Starting of Test	: 08/09/2017	Date of Completion of Test	: 18/09/2017

TEST RESULT

SR. NO	TEST PARAMETERS	UNIT	RESULT	·	
			TREATED SEWAGE STP Outlet	GPCB LIMIT#	TEST METHOD
1	рН	· _ ·	7.70	Not Specified	IS3025(P-11)83Re.02
2.	Total Suspended Solids	mg/L	26	30	IS3025(P-17)84Re.02
3.	Total Dissolved Solids	mg/L	504	Not Specified	IS3025(P-16)84Re.02
4	COD	mg/L	40	Not Specified	APHA(22 nd Edi) 5520-DOPEN REFLUX
5.	BOD (3 Days @ 27 °C)	mg/L	12	< 20	IS 3025 (P-44)
6.	Free Residual Chlorine	mg/L	0.8	Min 0.5	APHA(22 nd Edi)4500 Ci G-DPD Calorimetric method

#Limit as per CC & A; AWH-87212 Issued Date; 20/07/2017 Valid up to: 22/05/2022

H. T. Shah FSSAI Approved Lain An Anthenry MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986

 GPCB apprved schedule II auditor

Dr. Arun Bajpai Lab Manager (Q)

● ISO 14001;2004 ● OHSAS 18001:2007 ● ISO 9001:2008 Head Office : 544, Belgium Tower, Ring Boad Depreposal Bashand, Strans & conditions mentioned overleaf nch Office ; Plot No. 5/6, Pollucon House, Opp. Balaji industrial Soc., Old Shantinath Silk Mill Lane, Navjivan Circle, Udhana Magdalla Road, Surat-3905007. Tele : (0261) 2635750, 2635751 E-mail : pollucon@gmail.com, Website : www.polluconlab.com

Annexure 7:

Toxic Chemical Leach Potential Study & ETP Sludge Analysis Reports

POLAT (CONTATORIES PUTTIEN

TEST CERTIFICATE FOR ETP SLUDGE

Customer's Name and Address			QR/5.10/32/ Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGIN HAZIRA MANUFACTURING COMPLEX,	VGS PVT, LTD. Te	st Report No.	: FL/LT 0051
POST: BHATHA, DIST: SURAT, GUJARAT.	Ĵ\$\$	uo Date	: 01/05/2017
INDIA. PIN CODE - 394510	C	stomer's Ref.	FLSCOASA4 Date3:08/07/2013
Description of Sample : ETP Sludge Sample	Quantity/No. of St	amples :	01 Kg/One
Date of Sampling : 22/04/2017	Sampling, Procedu		Grab
Sampling By	n. Protocol (purpose		QC
Sample Receipt Date : 22/04/2017	Lab ID		LT/1704/11
Packing/ Seal : Sealed	Test Parameters		As per table
Date of Starting of Test : 22/04/2017	Date of Completio	n of Test	01/05/2017

 ĵ.	1	E	<u>ST</u>	RE	SULT	

SR. NO	TEST PARAMETERS	UNIT	RESULT
			ETP SLUDGE
1.	DH		8.72
2.	LOD	%	18,60
3	SIO ₂	%	13,50
4	Al ₂ O ₃	%	16.42
5.	Fe ₂ O ₃	6%	 31.48
6	CaO	%	 8.29
7.	MgO	9%	6.96

H.T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

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 GRCE appreci
 Sec. 12 of Environmental (Protection) Act-1986 schedule I auditor

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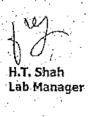


TEST CERTIFICATE FOR ETP SLUDGE

Customer's Name and Address :		QR/5.10/32A Page: 1 of 1
M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD.	Test Report No.	: PL/LT 0062
HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT,	Issue Date	: 20/05/2017
INDIA. PIN CODE - 394510	Customar's Ref.	F15000384 Dated:08/07/2013
Description of Sample : ETP Sludge Sample Quantity/No.	of Samples :	01 Kg/One
Date of Sampling : 13/05/2017 Sampling Pri	bcedure :	Grab
Sampling By Pollucin Laboratories Pvt. Ltd. Protocol (pu	rpose)	QC
Sample Receipt Date : 15/05/2017 Lab ID		LT/1705/17
Packing/ Seal : Sealed Test Parame	ters i	As per table
Date of Starting of Test : 15/05/2017 Date of Com	pletion of Test	20/05/2017

TEST RESULT

SR.	TEST PARAMETERS			RESULT
NO	I COL FARAPIELEND	UNIT		ETP SLUDGE
1.	рН	-		8,39
2.	LOD	%		15.42
3.	SiO ₂	%		14,58
4	Al ₂ O ₃	%		21.96
5	Fe ₂ O ₃	%		31,28
6.	СаО	%		4.72
7.	MgO	%		4.26



Dr. Arun Bajpai Lab Manager (Q)

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Recognised by MoEF, New Delhi Under
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TSO 14001 (2004
OHSAS 18001 : 2007
ISO 2001 : 2008
Sec. 12 of Environmental (Protection) Act-1866 schedule B suditor

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POLLUCON MABORATORIES PIZANO

TEST CERTIFICATE FOR SOIL QR/5.10/32A Customer's Name and Address Page: 1 of M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD. Test Report No. PL/LT 0064 HAZIRA MANUFACTURING COMPLEX, 23/05/2017 **Issue Date** POST: BHATHA, DIST: SURAT, GUJARAT, INDIA: PIN CODE - 394510. W.O. No. FL5001001 DTD 21.07.2016 Customer's Ref. Description of Sample : Soil Sample Date of Sampling 12/05/2017 Quantity/No. of Samples 05 Kg/Two Sampling By Pollucon Laboratories Pvt: Ltd. Sampling Procedure USEPA/IS 2720 etc. Sample Receipt Date 13/05/2017 Protocol (purpose) USEPA/IS 2720 etc. Packing/ Seal : Sealed Lab ID LT/1705/09 & 10 Date of Starting of Test 1 13/05/2017 Test Parameters : As per table Test Method USEPA/IS 2720 etc. Date of Completion of Test : 23/05/2017

TEST RESULT

SR.	TEST PARAMETERS	UNIT	RESULT			
NO	ILGI FAAAPILIERD	an an Ulivit in the second The second second second	NEAR RESERVOIR	Near STP		
1	pH		B.47	9.01		
2	Electrical Conductivity	µmho/cm	11	844		
3_	Molsture	%	26.2	.24.6		
4	Texture		Sandy Loam	Sandy Loam		
5	Organic Matter	%	0.49	0,33		
6	Nitrogen as N	%	0.051	0.058		
7	Phosphorus as P ₂ O ₅	%	0.18	0.27		
8	Potassium as K	mg/L	158	150		
9	Sulphate as SO ₄	mg/L	119	110		
10	Calcium as Ca	mg/L	78	92		
11	Magnesium as Mg	mg/L	19.2	18.4		
12	C:N Ratio		1.9.6	1:5.6		

H.T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

TSSAI Approved Lab
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 GPCB appived
 Sec. 12 of EnviroNotecal his report As subject to them is & conditions mentioned overleaf.

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TEST CERTIFICATE FOR ETP SLUDGE

Custo	mer's Name and Address :		QR/5.10/32A Page: 1 of 1
1 .	L & T SPECIAL STEELS AND HEAVY H HAZIRA MANUFACTURING COMPLEX POST: BHATHA, DIST: SURAT, GUJA INDIA. PIN CODE - 394510	X,	D. Test Report No. : PL/LT 0091 Issue Date : 05/08/2017 Customer's Ref. : W.O : FLS001153 DTD:20.06.2017
Date Samp Samp Packin	iption of SampleETP Sludge Samof Sampling:12/07/2017iling By:Pollucon Laboratoriole Receipt Date:13/07/2017ng/ Seal:Sealedof Starting of Test:13/07/2017	Sampling ies Pvt. Ltd. Protocol () Lab ID Test Parar	No. of Samples : 02 Kg/One Procedure : Grab purpose) : QC : LT/1707/09
e Alexant		TEST RESULT	
SR. NO	TEST PARAMETERS	UNIT	RESULT ETP SLUDGE
1.	рН		8.45
2.	LOD	%	18.41
3.	SiO ₂	%	13.89
4,	Al ₂ O ₃	%	21.35
5,	Fe ₂ O ₃	%	29.50
6.	CaO	%	4.46



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Dr. Arun Balpai Lab Manager (Q)

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Note: This report is subject to terms & conditions mentioned overleaf.

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TEST CERTIFICATE FOR SOIL Customer's Name and Address :

QR/5.10/32A Page: 1 of 1

M/S. L & T SPECIAL STEELS AND HEAVY FORGINGS PVT. LTD. HAZIRA MANUFACTURING COMPLEX, POST: BHATHA, DIST: SURAT, GUJARAT, INDIA. PIN CODE – 394510.

Test Report No.	: PL/LT 0089
Issue Date	: 05/08/2017
Customer's Ref.	W.O: FLS001153 DTD:20.06.2017

Description of Sample	: Soil Sample	
Date of Sampling	: 12/07/2017	Quantity/No. of Samples ; 05 Kg/Two
Sampling By	I Pollucon Laboratories Pvt. Ltd	Sampling Procedure : USEPA/IS 2720 etc.
Sample Receipt Date	: 13/07/2017	Protocol (purpose) : USEPA/IS 2720 etc.
Packing/ Seal	: Sealed	Lab ID : LT/1707/07 & 08
Date of Starting of Test	: 13/07/2017	Test Parameters : As per table
Test Method	: USEPA/IS 2720 etc.	Date of Completion of Test : 23/07/2017

TEST RESULT

SR.	TEST PARAMETERS	UNIT	RESULT			
NO	ILSI FARMIMETERS	CIALL	NEAR RESERVOIR	Near STP		
1	pH		8.35	8,48		
2	Electrical Conductivity	µmho/cm	302	82		
3.	Moisture	%	25,25	25.05		
4	Texture	<u> </u>	Sandy Loam	Sandy Loam		
5	Organic Matter	%	0.40	0.36		
6	Nitrogen as N	%	0.06	0.062		
7	Phosphorus as P ₂ O ₅	%	0.24	0.23		
8	Potassium as K	mg/L	151	139		
9	Sulphate as SO4	mg/L	110	103		
10	Calcium as Ca	mg/L	79	83		
11	Magnesium as Mg	mg/L	19.56	16.52		
12	C:N Ratio	-	1:6.6	1:5.8		

H.T. Shah Lab Manager

Dr. Arun Bajpai Lab Manager (Q)

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TEST CERTIFICATE FOR ETP SLUDGE

Customer's Name and A	ddress :	QR/5.10/32A Page: 1 of 1
	STEELS AND HEAVY FORGI ACTURING COMPLEX,	NGS PVT. LTD. Test Report No. : PL/LT 0100 Issue Date : 22/08/2017
POST: BHATHA, INDIA. PIN COI	DIST: SURAT, GUJARAT, DE - 394510	Customer's Ref. 22/05/2017 DTD:20.05.2017
Description of Sample	: ETP Sludge Sample	Quantity/No. of Samples : 02 Kg/One
Date of Sampling	: 12/08/2017	Sampling Procedure ; Grab
Sampling By	Pollucon Laboratories Pvt.	Lttl. Protocol (purpose) : QC

	Sample Receipt Date		13/08/2017		Lab ID	;	LT/1708/06	•
•	Packing/ Seal	;	Sealed	÷	Test Parameters	4 P	As per table	
	Date of Starting of Test	ŗ	13/08/2017		Date of Completion of Test		22/08/2017	

TEST RESULT

SR.			RESULT
NO	TEST PARAMETERS	UNIT	ETP SLUDGE
1.	рН		7.38
2.	LOD	%	13.04
3.	SiO ₂	%	11.30
4.	Al _z O ₃	%	21.18
5.	Fe ₂ O ₃	%	33.74
6.	CaO	%	5.66
7.	MgO	%	6.28





Note: This report is subject to terms & conditions mentioned overleaf.

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TEST CERTIFICATE FOR ETP SLUDGE

HAZIRA MANUF	TEELS AND HEAVY FORGINGS PVT. LTD. ACTURING COMPLEX, DIST: SURAT, GUJARAT,	Test Report No. Issue Date	: PL/LT 0114 : 29/09/2017
INDIA. PIN COD		Customer's Ref.	W.O : FLS001153 DTD:20.06.2017
<u> </u>		-	
Description of Sample	: ETP Sludge Sample Quantity/No.	of Samples	02 Kg/One
Date of Sampling	: 07/09/2017 Sampling Proc	edure :	Grab
Sampling By	: Pollucon Laboratories Pvt. Ltd. Protocol (purp	oose) :	QC
Sample Receipt Date	: 08/09/2017 Lab ID	•	LT/1709/12
Packing/ Seal	: Sealed Test Paramete	ers :	As per table
Date of Starting of Test	: 08/09/2017 Date of Comp	letion of Test :	19/09/2017

SR.	TEST PARAMETERS	LIBITT	RESULT	
NO		UNIT	ETP SLUDGE	
1.	рĤ		7.79	
2.	LOD	%	13.46	
3.	SIO ₂	%	11.92	
4.	Al ₂ O ₃	%	21.57	
5.	Fe ₂ O ₃	%	33.37	
6.	CāO	%	5.44	
7.	MgO	%	5.58	

TEST RESULT

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Dr. Arun Bajpai Lab Manager (Q)

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Annexure 8:

Common Hazardous Waste Management Facility Membership Certificate

BHARUCH ENVIRO INFRASTRUCTURE LIMITED



1

Date 27/04 2012

To, L & T Special Steels and Heavy Forgings Pvt. Ltd. Hazira Manufacturing Complex, Post: Bhatha, Dist. Surat.

Sub ; <u>Membership Certificate for Common Solid Waste Dispose</u> Facility.

Dear Sir,

We hereby certify that you have become member for the common Solid/Hazardoua waste disposal facility of Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar. You have booked solid waste quantity of <u>\$12 MT/year</u>. You have also paid your capacity communent charges. Your Membership No. is Oth/147.

Waste will be accepted after submitting valid authorization of GPCB.

Thonking you,

Yours faithfully, For BHARUCH ENVIRO INFRASTRUCTURE LTD.

nhah AUTHORISED BIGNATORY



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BHARUCH ENVIRO INFRASTRUCTURE LIMITED

DATE: 1782.2012

L & T Special Steels and Heavy Forgings Pet. Ltd. Hegira Manufacturing Complex, Post: Bhatha, Dist. Surat.

Sub ; Membership Certificate for Common Inductaling Parilly.

Dear Sir.

We hereby certify that you have become member for the common indocention facility of Bhanch Enviro Infrastructure List, at GREC. Ankleslovic. You have booked quantity of <u>21MTOYar</u>. You have paid Registention fees for common inducement membership. Your Membership No. is CI/ORF/070.

Waste will be accepted offer submitting valid authorization of GPCH.

Thanking you,

Your failfuly. For BHARUCH ENVIRO INFRASTRUCTURE LTD.

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AUTHORISED SIGNATORY

Pist Ne. 9701-16 GBQC Estate. Post Box No. 82, Arribationar 383 GB2, Bist : Biranuch (Skrjana) Phones (32548):453135, 323238 - Fax : (02646) 222844 - Centerl : patywane@uriphos.com

Annexure 9:

CREP Compliance Report

•		
	Integrated Iron & Steel Industry	Nut Amplicable on Our write is an integrated foreing
	Integrated non & Steer moustry	Not Applicable as Our unit is an integrated forging
	1. Coke Oven Plants	facility, not the integrated iron and Steen Industry.
		Not applicable
	2. Steel Melting Shop Reduction of fugitive emissions	
	Reduction of fugitive emissions	Provision of efficient Fume Extraction System (FES)
	· · · · · · · · · · · · · · · · · · ·	is there for entrapping fugitive emission and
. •		process emission. Analysis report for work area
	3. Blast Furnace	monitoring attached: Annexure-3.
		Not applicable
	4. Solid Waste /Hazardous Waste Management	
	Utilization of Steel/ Melting shop (SMS) Slag	Slag of Electrical Arc Furnace and Ladle Furnace is
	· · · ·	utilized as building material or other suitable
		application like road filling. It is non-hazardous in
		nature. Toxic Chemical Leach Potential Study
		Conducted, Analysis report attached: Annexure-7.
	Hazardous Wastes	
	- Charge of tar sludge/ ETP sludge to Coke Oven	Not applicable, no tar sludge or Coke Oven Plant.
		ETP Sludge (From WTP/ETP) is disposed to GPCB
		approved TSDF Facility.
	- Inventorization of the Hazardous waste as per	Noted.
	Hazardous Waste (M& H), Rules, 1989 as amended in	Tar Sludge, Acid Sludge etc. – Not Applicable as
	2000 and implementation of the Rules by Dec. 2003. (tar	ours is not an integrated iron and steel industry.
	sludge, acid sludge, waste Lubricating oil and type fuel	Inventorization for applicable hazardous waste
	falls in the category of Hazardous waste).	categories are in place.
	5. Water Conservation/ Water Pollution	· ·
	- To reduce specific water consumption	Noted. Efficient steps are taken to reduce the
		specific water consumption, this includes recycling
		the cooling tower blow down, boiler blow down,
	· · · · · · · · · · · · · · · · · · ·	reusing treated sewage etc.
•	- To operate the effluent treatment plant efficiently to	Noted and Confirmed. Analysis report attached:
	achieve the notified effluent discharge standards	Annexure-5.
· ·	6. Installation of Continuous stack monitoring system &	Noted and confirmed. Environment Monitoring
	its calibration in major stacks and setting up of the	Plan is in place for monitoring of stack and
	online ambient air quality monitoring stations.	ambient air quality at regular interval through
		MoEF approved Laboratory. Online monitoring
		system for Stack and Ambient Air is also installed.
• •	7. To operate the existing pollution control equipment	Noted and confirmed.
	efficiently and to keep proper record of run hours,	
	failure time and efficiency with immediate effect.	
	8. To implement the recommendations of Life Cycle	Carbon Foot Print and Life Cycle Assessment Study
	Assessment (LCA) study	carried out based on design data. The CFP data are
· .		being captured for Scope 1 & 2 on monthly basis.
	9. The industry will initiate the steps to adopt the	
	following clean technologies measures to improve the	· · ·
	performance of industry towards production, energy	
	land environment.	
	- Energy recovery of top Blast Furnace (BF) gas.	NA, As no blast furnace in our case.
	- Use of Tar- free runner linings.	NA
	- De- dusting of Cast house at tap holes, runners,	Noted.
	skimmers ladle and charging points.	Notea.
	- Suppression of fugitive emissions using nitrogen gas or	For raw material charging, closed conveyor belt
· ·	other inert gas	
	other mercigas	system is provided to avoid the fugitive emission
		during raw material charging. For other escapes
		efficient Fume Extraction System is provided.
	•	within the plant.

transportation back to the abandonal minor to fill up	suitable evaluation (the used filling it is not
transportation back to the abandoned mines, to fill up the cavities through empty railway wagons while they	suitable application like road filling. it is non- hazardous in nature. Toxic Chemical Leach
return back to the mines and its implementation.	Potential Study Conducted, Analysis report
return back to the mines and its implementation.	attached: Annexure-7.
- Processing of the waste containing flux & ferrous	Noted.
wastes through waste recycling plant.	Noted.
- To implement rainwater harvesting	Noted and complied with.
- Reduction Green House Gases by :	Noted and complied with
* Reduction in power consumption	Successfully Implemented ISO 50001 (Energy
	Management System) with a specific targets to
	reduce the energy consumption.
* Use of byproducts gases for power generation	NA, Ours is not a continuous process. Exhaust
	gases from RH Furnace is utilised for VAM for
	cooling of Admin building.
* Promotion of Energy Optimization technology	Successfully Implemented ISO 50001 (Energy
including energy/audit	Management System) with a specific targets to
· · · · · · · · · · · · · · · · · · ·	reduce the energy consumption.
 To set targets for Resource Conservation such as Raw 	Noted.
material, energy and water consumption to match	
International Standards.	
- Up- gradation in the monitoring and analysis facilities	Noted. In-house Environment Lab is operational.
for air and water pollution. Also to impart elaborate	Also third party monthly monitoring is also being
training to the manpower so that realistic data is	carried out through MoEF approved laboratory &
obtained in the environmental monitoring laboratories.	Schedule I Environment Auditor.
- To Improve overall house keeping.	Noted.

Annexure 10:

Environment Clearance from MoEF, Dtd. 20-10-2009 and

Amendment Dtd. 23-05-2012 &

09-04-2013

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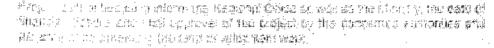
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Annexure 11:

Consent to Establish (CTE) from GPCB No. GPCB/CE/SRT-2129/49334,

Dtd. 20-04-2010



GUJARAT POLLUTION CONTROL BOARD PARYAVARAN BHAVAN Sector-10-A, Gandhinagar 382 010 Phone : (079) 23222425 (079) 23232152 Fax : (079) 23232156 Website : www.gpcb.gov.in

By R.P.A.D

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 3(c) & 5(5) of the Hazardous Waste (Management and Handling & Trans boundary Movement) Rules'2008 framed under the Environmental (Protection) Act-1986. This Board is empowered to Grant CC&A.

And whereas Board has received consolidated consent application letter no. 122554 dated 23/05/2017 for the Renewal of Consolidated Consent and Authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts. Consents & Authorization are hereby granted as under:

CONSENTS AND AUTHORISATION: .

(Under the provisions /rules of the aforesaid environmental acts)

To, M/s. L&T special Steels And Heavy Forgings Pvt.Ltd. Plot No:- Hazira Manufacturing Complex, S.No:- 446/A, 498/1, Surat-Hazira Road, Hazira Notified area, Bhatha:- 394510, Tal:- Chorasi, Dist:- Surat.

1. Consent Order No. <u>AWH-87212</u> Date of issue: 20/07/2017.

The consents shall be <u>valid upto 22/05/2022</u> for the use of outlet for the discharge of treated effluent and emission due to operation of industrial plant for manufacturing of the following items/ products:

.	Sr. No.	Product	Quantity
	1	Forgings	60,000 MT/Annum
	2	Steel Ingots, Casting & Liquid Metal	. 80,000 MT/Annum

Subject to specific condition:

2.

- 1. Unit shall manufacturing only products which are mentioned in CTE & EC, unit shall not manufacture Liquid metal as Product.
- 2. Unit shall strictly follow conditions stipulated in EC issued order F.no. J-11011/193/2009-I-A-II, dated:- 20/10/2009 & its amendment order dated:- 23/05/2012.
- 3. Industry shall manage Solid Wastes generated from industrial activities as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).
- 4. As per Provisions of Rule 18 of Solid Waste Management Rules-2016 you are directed to make an arrangement in Utilities to replace at least five percent (5%) of your solid fuel requirement by 'refused derived fuel', if applicable.
- 5. Industry shall obtain NOC from CGWA as per order of Hon. National Green Tribunal for the withdrawal of ground water, if applicable.

Clean Gujarat Green Gujarat

ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

3. CONDITIONS UNDER THE WATER ACT:

- 3.1. Source of Water:- Singanpore weir through existing water pipeline.
- 3.2. The quantity of the fresh water consumption for industrial purpose shall not exceed 8886 KL/Day.
- 3.3. The quantity of the fresh water consumption for domestic purpose shall not exceed 100 KL/Day.
- 3.4. The quantity of the industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 2409 KL/Day.
- 3.5. There shall be no discharge of industrial waste water. The effluent shall be treated into ETP and RQ Plant, RO permeate shall re-used and RO reject (570 KL/day)shall be used for Cooling of hot slag in SMS to maintain the Zero liquid discharge at all time.
- 3.6. Industry shall provide fixed pipeline with flow meter for the reuse of treated effluent (Ro permeate) and RO reject and maintain its records, separately, at Site.
- 3.7. The applicant shall operate effluent treatment system efficiently so that treated effluent from the industrial unit shall conform to the norms mentioned below.

PARAMETERS	CETP INLET NORMS
PH	6.5 TO 8.5
Temperature	40° C
Colour (pt.co.scale) in units	100 units
Suspended Solids	100 mg/l
Oil and Grease	10 mg/l
Sulphate	1000 mg/l
Phenolic Compounds	1 mg/1
Sulphides	2 mg/l
Ammonical Nitrogen	50 mg/l
Total Chromium	2 mg/l
Hexavelent Chromium	0.1 mg/l
BOD (5 days at 20°C)	30 mg/l
COD	100 mg/l
Total Dissolved Solids	2100 mg/l
Percent Sodium	60 %

- 3.8. The quantity of domestic waste water shall not exceed 80 KL/Day.
- 3.9. Domestic waste water shall be treated into STP consist of primary, secondary & tertiary treatment system. Treated Sewage conforming to the following standards shall be used for gardening & plantation within premises only:

BOD (5 days at 20 ⁰ C)	Less than 20 mg/l
Suspending Solids	Less than 30 mg/l
Residual Chlorine	Minimum 0.5 mg/l

- 3.10. Industry shall also provide fixed pipeline network for even distribution of treated Sewage onland for plantation.
- 3.11. The applicant shall provide storage tank of adequate capacity to store treated sewage during rainy season for at latest 7 days.

4. CONDITIONS UNDER THE AIR ACT:

4.1. The following shall be used as a fuel in Electric arc furnace, Ladle refining furnaceand, Reheating furnace(8 nos), Heat treatment furnace(8 nos), Natural gas based boiler (2 nos) and D.G.Set respectively.

Sr. No.	Utility	Fuel	Quantity
<u>*</u> 1	Electric Arc Furnace (100 MT)	Electricity	NA
2	Ladle refining furnace (100 MT)		INA
3	Reheating furnace-1 (250 MT)		
4	Reheating furnace-2 (300 MT)	-	· ·
5	Reheating furnace-3 (400 MT)		•
6	Reheating furnace-4 (400 MT)		
<u> </u>	Reheating furnace-5 (400 MT)	1	• .
. 8_	Reheating furnace-6 (600 MT)	-1	
9`	Reheating furnace-7 (600 MT)		
<u> </u>	Reheating furnace-8 (800 MT)	Natural Gas	28350 NM ³ /hr
11	Heat treatment furnace-1 (250 MT)		
23	Heat treatment furnace-2 (400 MT)		
13	Heat treatment furnace-3 (400 MT)	4	
14	Heat treatment furnace-4 (600 MT)	1	
<u>n 15</u>	Heat treatment furnace-5 (400 MT)		· · ·
	Heat treatment furnace-6 (300 MT)		
17	Heat treatment furnace-7 (600 MT)		· .
18	Heat treatment furnace-8 (800 MT)		
19	Natural gas based boiler-1(30 TPH)		
20	Natural gas based boiler-2(34 TPH)		· · · ·
21	D.G.Sets 3 nos (1010 KVA × 3)	High Speed Diesel	600 lit/hr
22	D.G.Set 1 nos (750 KVA)	High Speed Diesel	100 lit/hr
. 23	D.G.Set 1 nos(250 KVA)	High Speed Diesel	50 lit/hr

- 4.2. The applicant shall install & operate comprehensive adequate air pollution control system in order to achieve prescribed norms.
 4.3. The flue gas emission through stack attached to Electric endition of the system in the system of the system is a system of the system.
- 4.3. The flue gas emission through stack attached to Electric arc furnace, Ladle refining furnaceand, Reheating furnace(8 nos), Heat treatment furnace(8 nos), Natural gas based boiler (2 nos) and D.G.Set shall conform to the following standards:

Stack No.		Stack height in Meter	Air Pollution	Parameters	Permissible Limit
2	Electric Arc Furnace (100 MT) Ladle refining furnace	50	Furme extraction system & bag filter house	PM SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
3	(100 MT) Reheating furnace-1 (250 MT)	35		PM SO ₂	150 mg/NM ³ 100 ppm
4 · · · · · · · · · · · · · · · · · · ·	Reheating furnace-2 (300 MT) Reheating furnace-3	35	· · · ·	NO _x	50 ppm 150 mg/NM ³

		(400 MT)			SO ₂	100 ppm
6		Reheating furnace-4 (400			NO _x	50 ppm
U		MT)			T X	50 ppm
7		Reheating furnace-5 (400		and the second sec		
		MT)				
8	¥.	Reheating furnace-6 (600	 1-	2	4 C	
		MT)				
9		Reheating furnace-7 (600	35		PM	150.mg/NM ³
		MT)			SO ₂	100 ppm
10		Reheating furnace-8 (800	· .		NOx	50 ppm
	2	MT)	- -		· .	
11	ю.	Heat treatment furnace-1	35		PM	150 mg/NM^3
		(250 MT)		· · ·	SO ₂	100 ppm
12		Heat treatment furnace-2			NOx	50 ppm
		(400 MT)				
13		Heat treatment furnace-3				
		(400 MT)				
14		Heat treatment furnace-4				44.7
		(600 MT)			<u> </u>	
15	A.	Heat treatment furnace-5	35	-	РМ	150 mg/NM ³
•	<u>.</u>	(400 MT)			SO ₂	100 ррт
16		Heat treatment furnace-6			NOx	50 ppm
		(300 MT)				•
17		Heat treatment furnace-7				
1.0		(600 MT)	· ·			
18		Heat treatment furnace-8				
10		(800 MT)				
19	44	Natural gas based boiler-	45		PM	150 mg/NM ³
20		1(30 TPH)			SO ₂	100 ppm
20		Natural gas based boiler-			NOx	50 ppm
21	<u> </u>	2(34 TPH) D.G.Sets 3 nos	11			
21			11		PM	150 mg/NM^3
22		$(1010 \text{ KVA} \times 3)$ Stand by (750 KVA)	11		SO ₂	100 ppm
22		D.G.Set 1 nos (750 KVA) Stand by	11		NOx	50 ppm
23		D.G.Set 1 nos(250 KVA)	11	· · ·	· · · ·	
دے		Stand by	11			
1	61 (77)	Stand by				[

4.4. The process emission through the stack attached to the Shot Blasting Unit shall conform to the following standards:

Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control System	Parameters	Permissible Limit	
1	Shot Blasting Unit	15	Bag filter	PM	150 mg/NM ³	

4.5. The concentration of the following parameters in the ambient air within the premises of the industry and a distance of 10meters from the source) other than the stack/vent) shall not exceed the following levels.

PERMISSIBLE LIMIT
100 Microgram/M3
60 Microgram/M3
80 Microgram/M3
80 Microgram/M3

- 4.6. The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.
- 4.7. 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 standards in respect of noise to less than 75dB(A) during day time and70 dB (A) dúring night time. Daytime is reckoned in between 6a.m. and10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

5. D.G. SETS CONDITIONS

The D.G. Set shall have acoustic enclosure and shall comply sith the standards specified at Sr. no. 95 of Schedule-I of the rule-3 of E.P. Rules -1986 and Noise pollution level as per the Air Act-1981.

D.G. Sets standards:-

The flue gas emission through stack attached to D.G. Sets shall conform to the following standards.

- a) The minimum height of stack to be provided with each of the generator set shall be H=h + 0.2 (KVA)^{1/2}, where H= Total stack height in meter, h= height of the building in meters where or by the side of which the generator set is installed.
- a) Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.
 b) The acoustic enclosure or acoustic treatment of the many level of the second sec
- b) The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Under such circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.
- c) The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).
- d) All efforts shall be made to bring down the noise level due to the D.G.Set, outside the premises, within the ambient noise requirements by proper siting and control measures.
- e) Installation of a D.G. Sets must be strictly in compliance with the recommendations of the D.G.Set manufacturer.
- f) A proper routine and preventive maintenance procedure for the D.G.Set should be set and followed in consultation with the DG Set manufacture which would help prevent noise levels of the DG Set from deteriorating with use.

6. AUTHORIZATION as per HAZARDOUS AND OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY) RULES, 2016 Form-2 [See rule 6 (2)]

Form for grant of authorization for occupier or operator handling Hazardous waste

- 6.1 Authorization order No:- <u>AWH-87212</u> date of Issue: <u>20/07/2017</u>.
- 6.2 <u>M/s. L&T special Steels And Heavy Forgings Pvt.Ltd.</u> is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at <u>Plot No:- Hazira</u> <u>Manufacturing Complex, S.No:- 446/A, 498/1, Surat-Hazira Road, Hazira Notified area,</u> <u>Bhatha:- 394510, Tal:- Chorasi, Dist:- Surat</u>

Sr. No.	Waste	Quantity MT/Year	Schedule-I/ Category	Facility	- · ·
	ETP Waste	1000	35.3	Collection,	Storage,
Ĺ				Transportation	and
].			:	disposal at	GPCB
<u> </u>	· · · · · · · · · · · · · · · · · · ·		<u> </u>	authorized TSDF	Site.

2	Used Oil	6	5.1	Collection, storage,
				transportation and disposal by selling to Registered re-
3	Discarded Containers/	500	33.1	refiners.Collection,storagetransportation and disposal
	Barrels/Liners	2		to authorized decontaminator
4	Dried left over paint (Paint Residue	1	21.1	Collection, Storage, Transportation and
5	Maintenance waste containing oil/waste oil	20	5.2	disposal by Incineration at approved CHWI facility.

6.3 The authorization shall be valid up to 22/05/2022.

- 6.4 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.
- 6.5 The authorization is granted to operate a facility for collection, storage within factory premises transportation and ultimate disposal of Hazardous wastes as per condition no.6.2 to the industry having valid CCA of this Board.

7. TERMS AND CONDITIONS OF AUTHORISATION

- 1. The applicant shall comply with the provisions of the Environment (Protection) Act-1986 and the rules made there under.
- 2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.
- 3. The persons authorized shall not rent, lend, sell, and transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.
- 4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a beach of this authorization.
- 5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
- 6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Wastes and Penalty"
- 7. It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- 8. An application for the renewal of an authorization shall be made as laid down in rules 6(2) under Hazardous Waste and Other Waste Rules, 2016.
- 9. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 10. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 11. The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- 12. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- 13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

- 14. The waste generator shall be totally responsible for (i.e. collection, storage, transportation and ultimate disposal) the wastes generated.
- 15. Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30th day of June of every year for the preceding period April to March.
- 16. In case of any accident, details of the same shall be submitted on Form-11 to Gujarat Pollution Control Board.
- 17. As per "Public Liability Insurance Act-91" company shall get Insurance Policy, if applicable.
- 18. Empty drums and containers of toxic and hazard material shall be treated as per guideline published for "Management & Handling of discarded containers". Records of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.
- 19. In case of transport of hazardous wastes to a facility for (i.e. treatment, storage and disposal) existing in a State other than the State where hazardous wastes are generated, the occupier shall obtain 'No Objection Certificate' from the State Pollution Control Board or Committee of the concerned State of Union Territory Administration where the facility exists.
- 20. Unit shall take all concrete measures to show tangible results in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with Form-4.
- 21. Industry shall have to display the relevant information with regards to hazardous waste as indicated in the Hon. Supreme Court's Order in W.P. No.657 of 1995 dated 14th October, 2003.
- 22. Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including wastewater and air. emissions and solid hazardous wastes generated within the factory premises.

8. GENERAL CONDITIONS: -

- 8.1. Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.
- 8.2. Applicant shall also comply with the general conditions given in annexure I.
- 8.3. Whenever due to accident or other unforeseen act or ever, 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 Service, Department of Explosives, Inspectorate of Factories and local body.
- 8.4. In case of failure of pollution control equipments, the production process connected to it shall be stopped. Remedial actions/measures shall be implemented immediately to bring entire situation normal.
- 8.5. The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environmental safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environmental statements.
- 8.6. The Environmental audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.
- 8.7. The Board reserves the right to review and/or revoke the consent and/or make variations in the conditions, which the Board deems, fit in accordance with Section 27 of the Act.
- 8.8. In case of change of ownership/management the name and address of the new owners/ partners/directors/proprietor should immediately be intimated to the Board.
- 8.9. Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Hon. Supreme order in w.p. no. 657 of 1995 dated 14th October 2003.

SPECIFIC CONDITIONS:-

- 9.1. The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.
- 9.2. Handling over of the hazardous and other wastes to the authorized actual user shall be only after making the entry in the passbook of the actual user.
- 9.3. In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.
- 9.4. The occupier of the facility shall comply Standard operating procedure/guidelines published by MOEF&CC or CPCB or GPCB from time to time.
- 9.5. Unit shall comply provisions of E-Waste Management Rules-2016.
- 9.6. The disposal of Hazardous Waste shall be carried out as per the waste Management hierarchy.
- 9.7. The occupiers of facilities shall not store the hazardous and other wastes for a period not exceeding **ninety days**. Prior permission of the Board shall be obtained for extension of the 'storage period.
- 9.8. The occupier shall maintain the records of generation, sale, storage, transport, recycling, co processing and disposal of hazardous waste and make available during the inspection.
- 9.9. The transportation of the hazardous waste shall be carried out in GPS mounted dedicated vehicles.

For and on behalf of Gujarat Pollution Control Board

Date:-

(Suit U.K. Upadhyay)

Environmental Engineer

NO: GPCB/CCA-SRT-1323(2)/ID-20924/ 4-21213

Issued to:

M/s. L&T special Steels And Heavy Forgings Pvt.Ltd. Plot No:- Hazira Manufacturing Complex, S.No:- 446/A, 498/1, Surat-Hazira Road, Hazira Notified area, Bhatha:- 394510, Tal:- Chorasi, Dist:- Surat.

9.

Annexure 12:

CTO (Consent to Operate) No. AWH-49308 from GPCB, Dtd. 05-09-2012



GUJARAT POLLUTION CONTROL BOARD PARYAVARAN BHAVAN Sector-10-A, Gandhinagar 382 010 Phone: (079) 23222425 (079) 23232152 Fax: (079) 23232156 Website : www.gpcb.gov.in

By R.P.A.D

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 3(c) & 5(5) of the Hazardous Waste (Management and Handling & Trans. boundary Movement) Rules'2008 framed under the Environmental (Protection) Act-1986. This Board is empowered to Grant CC&A.

And whereas Board has received consolidated consent application letter no. 122554 dated 23/05/2017 for the Renewal of Consolidated Consent and Authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts. Consents & Authorization are hereby granted as under:

CONSENTS AND AUTHORISATION: .

(Under the provisions /rules of the aforesaid environmental acts)

Το, M/s. L&Tspecial Steels And Heavy Forgings Pvt.Ltd. Plot No:- Hazira Manufacturing Complex, S.No:- 446/A, 498/1, Surat-Hazira Road, Hazira Notified area, Bhatha:- 394510.

Tal:- Chorasi, Dist:- Surat.

Consent Order No. AWH-87212 Date of issue: 20/07/2017.

2.

1.

The consents shall be valid up to 22/05/2022 for the use of outlet for the discharge of treated effluent and emission due to operation of industrial plant for manufacturing of the following items/ products:

1	Sr. No.	Product	Quantity
·	1	Forgings	60,000 MT/Annum
	2	Steel Ingots, Casting & Liquid Metal	80,000 MT/Annum

Subject to specific condition:

- 1. Unit shall manufacturing only products which are mentioned in CTE & EC, unit shall not manufacture Liquid metal as Product.
- 2. Unit shall strictly follow conditions stipulated in EC issued order F.no. J-11011/193/2009-I-A-II, dated:- 20/10/2009 & its amendment order dated:- 23/05/2012.
- 3. Industry shall manage Solid Wastes generated from industrial activities as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).
- 4. As per Provisions of Rule 18 of Solid Waste Management Rules-2016 you are directed to make an arrangement in Utilities to replace at least five percent (5%) of your solid fuel requirement by 'refused derived fuel', if applicable.
- 5. Industry shall obtain NOC from CGWA as per order of Hon. National Green Tribunal for the withdrawal of ground water, if applicable.

Clean Gujarat Green Gujarat

ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

CONDITIONS UNDER THE WATER ACT:

3.

- 3.1. Source of Water:- Singanpore weir through existing water pipeline.
- 3.2. The quantity of the fresh water consumption for industrial purpose shall not exceed 8886 KL/Day.
- 3.3. The quantity of the fresh water consumption for domestic purpose shall not exceed 100 KL/Day,
- 3.4. The quantity of the industrial effluent to be generated from the manufacturing process and other
- ancillary industrial operations shall not exceed 2409 KL/Day.
- 3.5. There shall be no discharge of industrial waste water. The effluent shall be treated into ETP and RQ Plant, RO permeate shall re-used and RO reject (570 KL/day)shall be used for Cooling of hot slag in SMS to maintain the Zero liquid discharge at all time.
- 3.6. Industry shall provide fixed pipeline with flow meter for the reuse of treated effluent (Ro permeate) and RO reject and maintain its records, separately, at Site.
- 3.7. The applicant shall operate effluent treatment system efficiently so that treated effluent from the industrial unit shall conform to the norms mentioned below.

PARAMETERS	CETP INLET NORMS
PH	6.5 TO 8.5
Temperature	40° C
Colour (pt.co.scale) in units	100 units
Suspended Solids	
Oil and Grease	10 mg/l
Sulphate	1000 mg/l
Phenolic Compounds	1 mg/i
Sulphides	2 mg/i
Ammonical Nitrogen	50 mg/l
Total Chromium	2 mg/l
Hexavelent Chromium	0.1 mg/i
BOD (5 days at 20°C)	30 mg/l
COD	100 mg/l
Total Dissolved Solids	2100 mg/l
Percent Sodium	60 %

- 3.8. The quantity of domestic waste water shall not exceed 80 KL/Day.
- 3.9. Domestic waste water shall be treated into STP consist of primary, secondary & tertiary treatment system. Treated Sewage conforming to the following standards shall be used for gardening & plantation within premises only:

BOD (5 days at 20 [°] C)	Less than 20 mg/1
Suspending Solids	Less than 30 mg/1
Residual Chlorine	Minimum 0.5 mg/l

- 3.10. Industry shall also provide fixed pipeline network for even distribution of treated Sewage onland for plantation.
- 3.11. The applicant shall provide storage tank of adequate capacity to store treated sewage during rainy season for at latest 7 days.

CONDITIONS UNDER THE AIR ACT:

4.

4.1. The following shall be used as a fuel in Electric arc furnace, Ladle refining furnaceand, Reheating furnace(8 nos), Heat treatment furnace(8 nos), Natural gas based boiler (2 nos) and D.G.Set respectively.

Sr. No.	Utility	Fuel	0
<u> </u>	Electric Arc Furnace (100 MT)		Quantity
2	Ladie refining furnace (100 MT)	Electricity	NA
3	Reheating furnace-1 (250 MT)		· · · · · · · · · · · · · · · · · · ·
4	Reheating furnace-2 (300 MT)	-	
5	Reheating furnace-3 (400 MT)		
6	Reheating furnace-4 (400 MT)	· · · · ·	
7	Reheating furnace-5 (400 MT)		
8	Reheating furnace-6 (600 MT)		
<u> </u>	Reheating furnace-7 (600 MT)	- 1 in 1	
<u> </u>	Reheating furnace-8 (800 MT)	Natural Gas	28350 NM ³ /hr
11	Heat treatment furnace-1 (250 MT)	- · ·	
23	Heat treatment furnace-2 (400 MT)		
13	Heat treatment furnace-3 (400 MT)		
14	Heat treatment furnace-4 (600 MT)		
<u>^ 15</u>	Heat treatment furnace-5 (400 MT)		· · ·
16	Heat treatment furnace-6 (300 MT)		· ·
17	Heat treatment furnace-7 (600 MT)		
18	Heat treatment furnace-8 (800 MT)		
<u> </u>	Natural gas based boiler-1(30 TPH)	•	
20	Natural gas based boiler-2(34 TPH)		
21		High Speed Diesel	600 lit/hr
22		High Speed Diesel	100 lit/hr
<u>23</u>	D.G.Set 1 nos(250 KVA)	High Speed Diesel	50 lit/hr

- 4.2. The applicant shall install & operate comprehensive adequate air pollution control system in order to achieve prescribed norms.
- 4.3. The flue gas emission through stack attached to Electric arc furnace, Ladle refining furnaceand, Reheating furnace(8 nos), Heat treatment furnace(8 nos), Natural gas based boiler (2 nos) and D.G.Set shall conform to the following standards:

	Stack height in Meter	Air Pollution Control System	Parameters	Permissible Limit
1 Electric Arc Furnace (100 MT)	50	Furme extraction system & bag filter house	PM SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
Ladle refining furnace (100 MT)	· · ·			
Reheating furnace-1 (250 MT) Reheating furnace-2	35		PM SO ₂	150 mg/NM ³ 100 ppm
(300 MT) Reheating furnace-3	35		NO _x	50 ppm 150 mg/NM ³

		(400 MT	<u></u>	· · · ·	<u> </u>		<u></u> .		100		·
6					ł				SO ₂) ppm
D		MT)	g furnace-4	. (400		:		· ·	NOx	50	ppm
7	- 6-		g furnace-5	(100	· · .						
/		MT)	g fumace-5	(400			· .				
8	41 ·			(Cob							
٥	. "	MT)	g furnace-6	(600							
9.			- C 7								
9 `			g furnace-7	(600	35				PM) mg/NM ³
10		MT)			l · · ·	•	-	· · · .	SO_2) ppm
10			g furnace-8	(800	:				NOx	50	ppm
11	ń.	<u>MT)</u>					• • •				
11			atment furr	lace-1	35				PM) mg/NM ³
10		<u>(250 MT</u>			-				SO ₂	1) ppm
12			atment furr	ace-2					NO _x	50	ppm
10		(400 MT								·	
13			tment furr	ace-3		• •	· ·				
		<u>(400 MT</u>			4					.	
14			tment furr	lace-4					· · ·		1917 - 19
	· ·	(600 MT)				-		- '	a de la composición d		н -
15	E I		tment furr	lace-5	35 ·	•	· .	•	PM	-15	0 mg/NM ³
		(400 MT)					· ·		SO ₂	: 100	0 ppm
16			itment furr	ace-6		· •			NOx	.50	ppm
	· ·	<u>(300 MT)</u>		<u></u>							
17			atment furn	ace-7]			-			e
		<u>(600 MT</u>)					1			· .	
18		Heat trea	tment furn	ace-8] .					·	N
		(800 MT)			· · •		· ·				
19		Natural g	as based b	oiler-	45		•		PM	15	0 mg/NM ³
	11	1(30 TPH) - (-			SO ₂) ppm
20		Natural g	as based b	oiler-			;		NOx		ppm
	[2(34 TPH)								, ,
21		D.G.Sets			11				PM	15	0 mg/NM ³
			A × 3) Star	ıd by	· · ·				SO ₂	10	0 ppm
22			nos (750 K		11				NO _x		ppm
		Stand by	、···· 2			·.				1.00	P.P.III
23			nos(250 K	VA)	11		·		<u></u>	- -	
	IA (Stand by				• •		-	· · .	ľ	-
4.				ough t	he stack	afte	ched to the	Shot I	Blasting Unit	<u>i</u> shall a	utorm to th
	foll	owing stan	dards:		Ditter	4 .tG		DUOL 1	Diasting Unit	Shan C	
•	Stac		attached	Steel	k height	A	ir Dau	ution	Donometer	n	nicall1
	No.	to		in M			ontrol Syst		Parameters		nissible
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			PM 2.5			1	60 Micro	gram/N	v13 i		

1

PARAMETERS	PERMISSIBLE LIMIT			
PM 10	100 Microgram/M3			
PM 2.5	60 Microgram/M3			
SO ₂	80 Microgram/M3			
NOx	80 Microgram/M3			

lite

- 4.6. The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.
 4.7. The industry shall take adequate maximum for the last of the
 - .7. 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 standards in respect of noise to less than 75dB(A) during day time and70 dB (A) during night time. Daytime is reckoned in between 6a.m. and10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

5. D.G. SETS CONDITIONS

The D.G. Set shall have acoustic enclosure and shall comply sith the standards specified at Sr. no. 95 of Schedule-I of the rule-3 of E.P. Rules -1986 and Noise pollution level as per the Air Act-1981.

D.G. Sets standards:-

The flue gas emission through stack attached to D.G. Sets shall conform to the following standards.

- a) The minimum height of stack to be provided with each of the generator set shall be H=h + 0.2 (KVA)^{1/2}, where H= Total stack height in meter, h= height of the building in meters where or by the side of which the generator set is installed.
- a) Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.
- b) The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Under such circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.
- c) The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).
- d) All efforts shall be made to bring down the noise level due to the D.G.Set, outside the premises, within the ambient noise requirements by proper siting and control measures.
- e) Installation of a D.G. Sets must be strictly in compliance with the recommendations of the D.G.Set manufacturer.
- f) A proper routine and preventive maintenance procedure for the D.G.Set should be set and followed in consultation with the DG Set manufacture which would help prevent noise levels of the DG Set from deteriorating with use.
- 6. AUTHORIZATION as per HAZARDOUS AND OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY) RULES, 2016 Form-2 [See rule 6 (2)]

Form for grant of authorization for occupier or operator handling Hazardous waste

- 6.1 Authorization order No:- <u>AWH-87212</u> date of Issue: <u>20/07/2017</u>.
- 6.2 <u>M/s. L&T special Steels And Heavy Forgings Pvt.Ltd.</u> is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at <u>Plot No:- Hazira</u> <u>Manufacturing Complex, S.No:- 446/A, 498/1, Surat-Hazira Road, Hazira Notified area</u>, <u>Bhatha:- 394510, Tal:- Chorasi, Dist:- Surat.</u>

Sr. <u>No.</u>	Waste	Quantity MT/Year	Schedule-I/	Facility
	ETP Waste	1000	35.3	Collection, Storage, Transportation and
				disposal at GPCB authorized TSDF Site.

· .	·	· ·		· · · · ·
2	Used Oil	- 6	5.1	Collection, storage,
				transportation and disposal by selling to Registered re- refiners.
3	Discarded Containers/	500	33.1	Collection, storage
	Barrels/Liners			transportation and disposal to authorized decontaminator
4.	Dried left over paint (Paint Residue	1	.21.1	Collection, Storage, Transportation and
5	Maintenance waste containing oil/waste oil	20	5.2	disposal by Incineration at approved CHWI facility.

- 6.3 The authorization shall be valid up to $\underline{22/05/2022}$.
- 6.4 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.
- 6.5 The authorization is granted to operate a facility for collection, storage within factory premises transportation and ultimate disposal of Hazardous wastes as per condition no.6.2 to the industry having valid CCA of this Board.

7. <u>TERMS AND CONDITIONS OF AUTHORISATION</u>

- 1. The applicant shall comply with the provisions of the Environment (Protection) Act-1986 and the rules made there under.
- 2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.
- 3. The persons authorized shall not rent, lend, sell, and transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.
- 4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a beach of this authorization.
- 5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
- 6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Wastes and Penalty"
- 7. It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- 8. An application for the renewal of an authorization shall be made as laid down in rules 6(2) under . Hazardous Waste and Other Waste Rules, 2016.
- 9. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 10. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
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- 8.5. The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environmental safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environmental statements.
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- 8.8. In case of change of ownership/management the name and address of the new owners/
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SPECIFIC CONDITIONS:-

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- 9.1. The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.
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- 9.5. Unit shall comply provisions of E-Waste Management Rules-2016.
- 9.6. The disposal of Hazardous Waste shall be carried out as per the waste Management hierarchy.
- 9.7. The occupiers of facilities shall not store the hazardous and other wastes for a period not exceeding **ninety days**. Prior permission of the Board shall be obtained for extension of the 'storage period.
- 9.8. The occupier shall maintain the records of generation, sale, storage, transport, recycling, co processing and disposal of hazardous waste and make available during the inspection.
- 9.9. The transportation of the hazardous waste shall be carried out in GPS mounted dedicated vehicles.

For and on behalf of Gujarat Pollution Control Board

Date:-

(Smt U.K. Upadhyay) Environmental Engineer

NO: GPCB/CCA-SRT-1323(2)/ID-20924/ 4-21213

Issued to:

M/s. L&T special Steels And Heavy Forgings Pvt.Ltd. Plot No:- Hazira Manufacturing Complex, S.No:- 446/A, 498/1, Surat-Hazira Road, Hazira Notified area, Bhatha:- 394510, Tal:- Chorasi, Dist:- Surat.

Annexure 12A:

CTO Compliance Report

SR. NO.		CONSENT CO	COMPLIANCE		
1.	PRODU	CTS			· · ·
1.1	Forging	S		60,000 MT/Annum	Complied
1.2	Steel Ing	gots & Castings		80,000 MT/Annum	Complied
2.	SPECIFI	C CONDITIONS	· · · · ·	· · · · · · · · · · · · · · · · · · ·	
2.1	Unit sha	all manufacture products which are r	nentioned in	CTE & EC.	Complied
2.2	11011/1	Ill strictly follow conditions stipulate 193/2009-IA-II Dtd. 20-10-2009 & its	amendment	order Dtd. 23-05-2012.	Complied
2.3	letter N	all strictly follow conditions stipulate o. GPCB/CE/SRT-2129/49334 Dtd. 20 ide letter No. GPCB/CCA-SRT-1323/I	0-04-2010 &	its subsequent amendment	Complied
2.4	slag coo	all re use wastewater treated from R Iling purpose & shall maintain Zero d	lischarge of v	wastewater.	Complied
2.5	the sam	all provide online monitoring system e to the board.			Complied
2.6		Ill provide flow meter at reuse syste			Complied
2.7		all not generate electricity more than	<u>15 MW with</u>	out prior EC/CTE.	Noted & Confirmed
3.		ION UNDER THE WATER ACT			· · · · · · · · · · · · · · · · · · ·
3.1	other ar KL/Day water sl	Intity of trade effluent to be generat ncillary industrial operation shall not R.O. Reject water shall be used for s hall be Re- used in process. There sh mises of the unit.	Complied		
		ntity of Domestic effluent from the treated in STP to norms specified as		not exceed 80 KL/Day.&	Complied
	PARAM		GPCB NOR	 MS	
-	BOD		20 mg/l		Complied
3.2	Suspend	led Solids	30 mg/l	· · · · · ·	Complied
5. Z	Residua	l Chlorine	0.5 ppm	······	Complied
	gardeni	Il treated effluent confirming to the ng / plantation on land of area abou ge of domestic effluent outside the p	res. There shall be no	Complied, Treated sewage is reused for gardening and plantation on land (33 % green area provided)	
3.3	Trade E	ffluent:		-	
3.3.1		licant shall provide adequate efflue e industrial unit shall conform to the		Complied	
3.3.2	process		Complied		
3.3.3	Unit sha	all provide flow meter at ETP & STP.		· · · · · · · · · · · · · · · · · · ·	Complied
4.		ION UNDER THE AIR ACT		·····	
<u> </u>	The foll	owing shall be used as fuel.			
4.1·	No.	Fuel		Quantity	
	1	Natural Gas		28350 NM3//Hr	Complied

L & T Special Steels and Heavy Forging Pvt. Ltd.

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	2	High Speed Diesel (HSI) For D.G.	Sets only	800 Lit/Hr		Complied
4.2	The applicant shall install & operate a comprehensive adequate air pollution control system in order to achieve prescribed norms.						Complied, Adequate Fume Extraction System provided with Bag filter house for Electrical Arc Furnace and Ladle Refining Furnace.
	The flue	gas emission through st			e following sta	ndards.	
· . ·	Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control System	Parameters	Permissible limit	
		(1) Electric arc Furnace (100 MT)		Fume Extraction	Particulate Matter	150mg/NM ³	
	1	(2) Ladle Refining Furnace (100 MT)	50	System & Bag Filter House	SO ₂ NO _x	100 ppm 50 ppm	Complied
	2	Reheating Furnace-1 (250 MT) Reheating Furnace-2 (300 MT)	35		Particulate Matter SO ₂ NO _x	150mg/NM ³ 100 ppm 50 ppm	Complied
4.2.1	3	Reheating Furnace-3 (400 MT) Reheating Furnace-4 (400 MT) Reheating Furnace-5 (400 MT) Reheating Furnace-6	35 .		Particulate Matter SO ₂ NO _x	150mg/NM ³ 100 ppm 50 ppm	NA, Not installed yet.
• •	4	(600 MT) Reheating Furnace-7 (600 MT) Reheating Furnace-8 (800 MT)	35		Particulate Matter SO ₂ NO _x	150mg/NM ³ 100 ppm 50 ppm	NA, Not installed yet.
	5	Heat Treatment Furnace-1 (250 MT) Heat Treatment Furnace-2 (400 MT) Heat Treatment Furnace-3 (400 MT) Heat Treatment Furnace-4 (600 MT)	35		Particulate Matter SO ₂ NO _x	150mg/NM ³ 100 ppm 50 ppm	Complied NA, Not installed yet. NA, Not installed yet. NA, Not installed yet.
	6	Heat Treatment Furnace-5 (400 MT) Heat Treatment Furnace-6 (300 MT) Heat Treatment Furnace-7 (600 MT) Heat Treatment	35		Particulate Matter SO ₂ NO _x	150mg/NM ³ 100 ppm 50 ppm	Complied NA, Not installed yet. NA, Not installed yet. NA, Not installed yet.

L & T Special Steels and Heavy Forging Pvt. Ltd.

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	· · · · · ·	Furnace-8 (800) MT)	l		1		
		Natural Gas Ba				Particulate	150mg/NM ³	
	7	Boiler -1 (30 TF				Matter	TOOLIGUNIN	
		Natural Gas Based		45		SO ₂	100 ppm	Complied
	8		Boiler -2 (34 TPH)			NOx	50 ppm	
						Particulate	150mg/NM ³	· · ·
	9	D.G.Sets - 3 Nos. 1010 KVA X 3		30		Matter		Complied, 2 DG sets installed,
	5			50		SO2	100 ppm	1 yet to be installed.
	· · ·	· · · · · · · · · · · · · · · · · · ·	-			NO _x	50 ppm	
		D.G.Sets - 1 No.				Particulate	150mg/NM ³	NA, Not installed yet
	10			6		Matter	1	
		750 KVA		_		SO2	100_ppm	this too mounce yet
					· · · · ·	NOx	50 ppm	· · · ·
		D.G.Sets - 1 No				Particulate	150mg/NM ³	
	- 11	250 KVA).	3	·	Matter	100	Complied
•						SO ₂ NO _x	100 ppm	
	The pro	Less emission th	rough th	L		the shot blasting	50 ppm	
	to the f	ollowing standa	nougn u rds:	IC SLALF		the shot masting	, shall conform	· ·
`			<u> </u>	· [Air	1		
· .	Stack	Stack	Stac		Pollution		Permissible	· · · · · · · · · · · · · · · · · · ·
	No.	attached	Heig		Control	Parameters	limit	· · ·
4.2.2		to .	in Me	eter	System			NA, Not installed yet
						Particulate	late 150mg/NM ³	-
-	1.	Shot	4 -	.		Matter		
	<u> </u>	Blasting Unit	15		Bag filter	SO ₂	100 ppm	
						NO _x	50 ppm	· -
	The cor	centration of th	o followi	ing nor	motors in th	e ambient air wit	· · · · ·	Complied, For monitoring of
. .	premise	es of the industry	e totiowi v and a d	ing para listance	of 10 meter	e ambient air wit s from the source	nin the	Ambient Air Quality, 4 Nos.
	the star	ck/vent) shall no	of AAQM stations developed and kept at defined location					
4.2.3	PARAMETERS				ERMISSIBLE L	JMJT	as per the standard for manual monitoring on monthly basis. Also Online	
4,2.5	Particulate matter 10				0 Microgram	per cubic meter		
	PM 2.5		· .			per cubic meter	Monitoring system is installed for regular	
	Oxides	of Sulphur				per cubic meter		
						·		monitoring of Ambient Air
	Oxides of Nitrogen) Microgram	per cubic meter	Quality.	
						rm, etc at chimne		
	monito	ring the air emis	sion and	the sar	me shall be o	pen for inspectio	n to/and for	
4.2.4	use of E	Board's staff. The	e chimne	iy(s) vei	nts attached	to various source	s of emission	Complied
	shall be	designated by n						
		/displayed to fac						
	The ind	ustry shall take a						
4.2.5	sources	within the prem	Complied					
		of noise to less t						
_	Line. D	ayume is reckon	eu in bei	weent	5a.m. and 10	p.m and nighttim	ie is reckoned	

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	betw	een 10 p.m. and 6	a.m.			
5.		RAL CONDITION	· · · · · · · · · · · · · · · · · · ·			
5.1	conse	hange in personne ents form/order sh	Noted			
5.2	Appli	cant shall also com	Noted and Confirmed			
5.3	their to pa	established by an industrial activities y the compensatio	Noted			
6.	Form	IORISATION FOR T -2 (See rule 3 (c)				
6.1		per of authorizatio	Noted			
. *	autho situat	L & T Special Steel prization to operatied at Plot No. Haz e, Bhatha- 394 510	Noted			
	Sr. No.	Waste	Quantity	Schedule-1 Process No.	Facility	
		ETP Sludge	1000 MT/Yr	34.3	Collection, storage, transportation disposal at TSDF Site M/S. BEIL, Ankleshwar	Complied
6.1.1	-	Dried Left over Paint (Paint Residue)	1 MT/Yr	21. <u>1</u>	Collection, storage, transportation disposal by Incineration at Approved CHWI Facility.	Complied, We are member of CHWMF, M/s BEIL, Ankleshwar for TSDF and Incineration facility.
·		Used/Spent Oil	6 MT/Yr	5.1	Collection, storage, transportation disposal by selling to GPCB Registered rerefiners.	Complied
		Maintenance Waste Containing Oil/Waste Oil	20 MT/Yr	5.2	Collection, storage, transportation disposal by Incineration at Approved CHWI Facility.	Complied, We are member of CHWMF, M/s BEIL, Ankleshwar for TSDF and Incineration facility.
		Discarded Containers	500 #/Yr	33.3	Collection, Storage, decontamination.	Complied
6.1.2	facto: Site. I	uthorization is gra ry premises transp M/S. Bharuch Envi	Complied			
6.1.3		uthorization shall	Noted			
6.1.4	as ma (Prote	uthorization is sub by be specified in the specified in the specified in the specified in the sub- action) Act-1986 and specified in the specified specified in the specified sp	Noted			
		IS AND CONDITION				
6.1.5	A	ne applicant shall c ct-1986 and the ru	Noted and Confirmed			
	b) Th au	e authorization sh uthorized by the G	Noted and Confirmed			

L & T Special Steels and Heavy Forging Pvt. Ltd.

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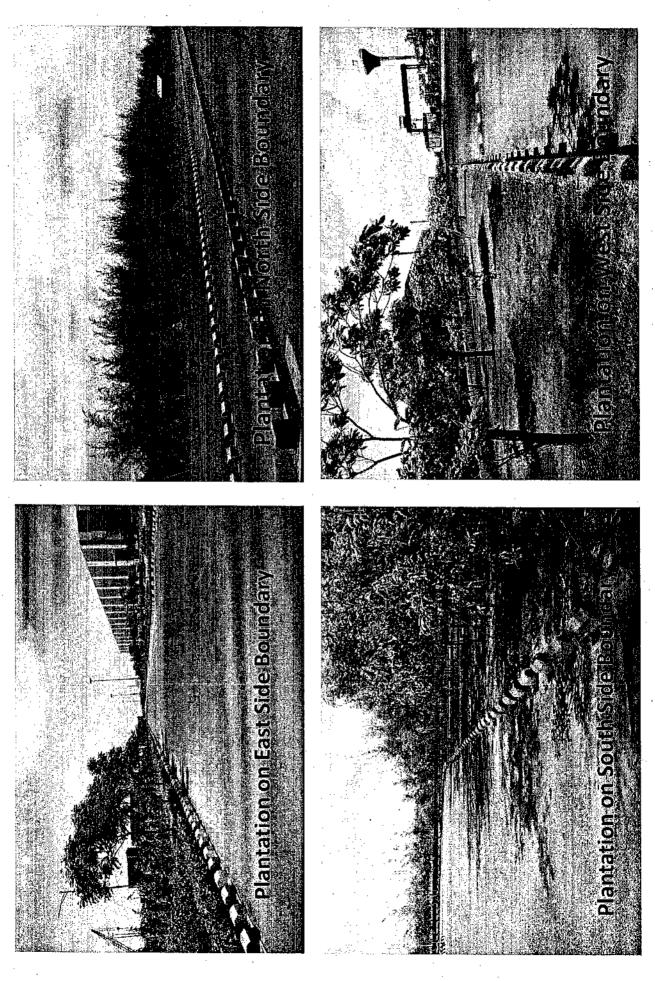
	c) The persons authorized shall not rent, lend, sell, and transfer of otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.	Noted and Confirmed
	 Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization. 	Noted
	 e) It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility. 	Noted
· ·	 f) An application for the renewal of an authorization shall be made as laid down in rule 5 (6) (ii) 	Noted
	 g) Industry shall have to manage waste oil, discarded containers etc. as per amended rules 2003. 	Complied
	 h) Industry shall submit annual report within 15 days and subsequently by 31st January every year. 	Complied
7.	Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Supreme Court's order in W.P. No. 657 of 1995 dated 14 th October 2003.	Complied
8.	Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emissions and solid hazardous wastes generated within the factory premises.	Complied

L & T Special Steels and Heavy Forging Pvt. Ltd.

Annexure 13:

Photographs of Green Belt Area

Plantation Across the plant (More than 30 acres of Green Area & More than 7702 nos. of trees)



Annexure 14:

Certificates and Recognitions

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 178521-2015-AQ-IND-RvA inilai censilasilon date: 18, June, 2015 Veld: 12, June, 2015 - 17, Jane, 2016

DNV GL

This is to certify that the management system of

L & T Special Steels and Heavy Forgings Pvt. Ltd.

Hazira Manufacturing Complex, Surat - 394 510, Gujarat, India

has been found to conform to the Quality Management System standard: ISO 9001:2008

This certificate is valid for the following scope: Manufacture and supply of liquid metals, ingots & forgings (including semis)

^{la}lion orașe

flace and date: Chennal, 17, Jone, 2015



For the Issuing office: DNV GL – Business Assurance ROHA, No. 10, GST Road, Alandur, Chennal, PIN – 600 026, India

Sivadesan Madiyath Management Representative



Revision date: 10 December 2014

L&T Special Steels and Heavy Forgings Pvt. Ltd.

Hazira, India.

Bureau Veritas Certification certify that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standard detailed below

Standard

BS OHSAS 18001:2007

Scope of excipication

Manufacture and Supply of Ferrous Heavy Forgings, Special Steels and Liquid Metals for Nuclear & Thermal Power, Hydrocarbon, Steel, Ship Building, Defense Equipment & Systems and Steel Fabrication

Certification cycle start date: **30 August 2014** Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **29 August 2017**

Original certification date;

11 July 2012

Certificate No. IND14.6417U/HS/15 Version: 2

Signed on behalf of BVCH SAS – UK Branch Rainesh KOREGAVE General Manager, CERTIFICATION South Asia Region

Certification body address Sh Floot 85 Pressol Silvet London, E1 8482, United Response

E hayyar antifican

Marwan Centre¹ Brit Floor, Kilahanan Marwan Marg. Dp.n. Arras Industriat Estate, Off Saet Vitra: Rosaf Andhari (Estal), Mundust - 400 072, India

Further Electrosecond reparding the score of the centerate and the applicability of the transpernent bystem requirements ranging to obtained by consulting the organization. To shedd this periodicized validity phase or 1+81 32 5695 5300.



L&T Special Steels and Heavy Forgings Pvt. Ltd.

Hazira, India.

Bureau Veritas Conflication certify that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standard detailed below

Stenderd ISO 14001:2004

Score of certification

Manufacture and Supply of Ferrous Heavy Forgings, Special Steels and Liquid Metals for Nuclear & Thermal Power, Hydrocarbon, Steel, Ship Building, Defense Equipment & Systems and Steel Fabrication

Certification cycle start date: 30 August 2014 Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 28 August 2017

Original certification date: 11 July 2012

Certificate No. IND14.5417U/E/12 Version : 2 Revision date: 10 December 2014

Signed an pehalf of BVCH SAS – UK Branch Rebut NGYAK General Managor, TECHNICAL (CER BL) Scuth Asin Region UKAS ANNOLOGY MANDER MANDER

:Certification body activess Local omos;

WishYah Cenho" BD Flour, Kitahanlar idanwah Mark Opp Zonia Industrial Gatater, Of Sant Kitar Road. Anatomi (Euni): Muchali - 400 072, baitei

Further deviliations regarding the scape of the contributo and the applicability of the rear-system system angular method in the vic abtelling by consulting the organization, to these this contribute velicity places as 1391 22 6669 6300.

597 Floor, 68 Pressol Street, London, 51 8H9, United Knapdom.



L&T Special Steels and Heavy Forgings Pvt. Ltd.

Hazira, India.

Bureau Ventas Certification certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standard detailed below

Stenderd

ISO 50001:2011

Scope of certification

Manufacture and Supply of Ferrous Heavy Forgings, Special Steels and Liquid Metals for Nuclear & Thermal Power, Hydrocarbon, Steel, Ship Building, Defense Equipment & Systems and Steel Fabrication

Certification cycle star, date: 23 December 2014 Subject to the continued sat sfactory operation of the organisation's Management System, this can floate expires on: 22 December 2017

Original certification date:

.

15 May 2013

Certificate No. IND14.6527/EN/1

úros(o%ss:

Version 1 Revision date 23 December 2014

Dertification Authority Rahui NAYAK Bebera Manager, TECHNICAL (CER BL) South Asta Region

> Marwali Centre' Oni Flost, Koshanisi Marush idag Opo Ansa Indusida Estate, Cifi San Kasy Kost, Antheni (Easti, Manusei – 450-573, Indis.

Further clautical one regarding the score of this contrasts and the sophishing of the manuformer system requirements may be obtained by consulting the organization To show this can ficate validity please call +61 22 6656 6366.

CII ion of Indian Industry Indian Green Building Council (IGBC) hereby certifies that Administrative Block for L&T Special Steels & Heavy Forgings Pvt. Ltd. Hazira - Surat has successfully achieved the Green Building Standards required for the following level of certification under the Leadership in Energy and Environment Design (LEED) for India Green Building Rating System **LEED India for New Construction Platinum** September 2013 مان ج C N Raghavendran Dr Prem C Jain S Raghupathy Chairman, LEED India Chairman, IGBC Executive Director, CII-Godrej GBC



Firojkhan Shaikh, Bipeen Chaugule, Umang Patel, Amol Mahulkar, Vivek Patel, Gopinathan & Baljeet Shah