

Chandigarh Pollution Control Committee

Paryavaran Bhawan, Madhya Marg, Sector 19-B, Chandigarh-160 019

CPCC/2020/ 5173

Dated: 31-08-2020

To

Ms. Divya Sinha
Additional Director & In-charge, UPC-II
Central Pollution Control Board,
Ministry of Environment, Forest and Climate Change,
Parivesh Bhawan, C.B.D. Cum-Office Complex
East Arjun Nagar, Shahdara,
Delhi - 110032.

Sub: Submission of Annual Report for the calendar year 2019 on implementation of "Solid Waste Management Rules, 2016" - regarding.

This is in reference to the subject cited above.

In this regard, please find enclosed herewith the Annual Report in Form-IV as submitted by Municipal Corporation, Chandigarh and Form-V by Chandigarh Pollution Control Committee for the calendar year 2019 regarding implementation of Solid Waste Management Rules, 2016.

(Debendra Dalal, IFS) Member Secretary

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Form-V

Annual report to be submitted by the State Pollution Control Board or Pollution Control Committee to the Central Pollution Control Board

PART-A

To,

The Chairman Central Pollution Control Board Parivesh Bhawan, East Arjun Nagar, Delhi – 1100032

1.	Name of the State/Union Territory	:	Chandigarh (U.T.)
2.	Name & address of the State	Ė	Chandigarh Pollution Control Committee, Paryavaran
250	Pollution Control	· .	Bhawan, Ground Floor, Sector - 19B, Chandigarh
3.	Number of local bodies responsible for management of solid waste in the State/Union Territory under these rules	:	01, Municipal Corporation, Chandigarh
4.	No. of authorisation application received	:	01
5.	A Summary Statement on progress made by local body in respect of solid waste management	:	The Chandigarh Solid Waste Management Policy has been notified on 04.09.2018. The Municipal Corporation, Chandigarh has notified Solid Waste Management Bye-Laws on 18.03.2019. User charges are also incorporated in the Solid Waste Management Bye-Laws. Segregation of waste has started. State Level Advisory Board (SLAB) has been constituted by Municipal Corporation, Chandigarh.
6.	A Summary Statement on progress made by local bodies in respect of waste collection, segregation, transportation and disposal	:	The Municipal Corporation, Chandigarh has facilitated door to door collection system and is in all the 26 wards of Chandigarh and 1415 no. of waste pickers and door to door collectors have been incorporated for collection and segregation of municipal solid waste. 39 Nos. of Sehaj Safai Kendras (SSKs) have been constructed as secondary storage facilities of MSW in the city. Municipal Corporation is using dumpers, tractors, trolleys, tippers for transportation of MSW to the garbage processing plant set up by M/s Jai Prakash Associates where they process the municipal solid waste to produce Refuse Derived Fuel (RDF) and compost. The domestic hazardous waste shall be collected in separate bags and will be stored at the transfer stations and further be transported for incineration.
7.	A summary statement on progress made by local bodies in respect of implementation of Schedule-II	•	One RDF plant of 500 TPD capacity and one compost plant of 300 TPD capacity have been installed by M/s Jai Prakash Associates for processing of MSW. Waste collected from vegetable, fruit, flower, meat, poultry and fish market is treated in a bio- methanation plant of 5 TPD capcity. The Municipal Corporation, Chandigarh has also started windrow composting at dumping ground having capacity 250-300 TPD. In addition pit composting is in practice in 105 Nos. Gardens/ parks of the city.

	Also all the bulk waste generators are practicing onsite composting.
Date: 28.08.20 Place: CHANDIGARY	Member Secretary Chandigarh Pollution Control Committee

PART-B

Towns/Cities	
Total number of towns/cities	01
Total number of ULBs	01
Number of class I & class II cities/towns	01 Class - I
Authorisation status (names/number)	
Number of applications received	01
Number of authorisations granted	01
Authorisations under scrutiny	Nil
SOLID WASTE Generation status	
Solid waste generation in the state (TPD)	450 TPD
Collected	450 TPD
Treated	179.61 TPD
Landfilled	270.39 TPD
Compliance to Schedule I of SW Rules (Number	
Good practices in cities/towns	Yes
House to house collection	Yes 100%
Segregation	Yes 80%
Storage	Yes 100%
Covered transportation	Yes
Processing of SW (Number/names of	Municipal Corporation transport MSW to the
towns/capacity)	garbage processing plant set up by M/s Jai
51 470.000	Prakash Associates where they process the
	municipal solid waste to produce Refuse Derived
	Fuel (RDF) and compost.

Solid Waste processing facilities setup:

Sr. No.	Composting	Vermi-composting	Biogas	RDF/Pelletisation
1	01	-	02	01

Processing facility operational:

Sr. No.	Composting	Vermi-composting	Biogas	RDF/Pelletisation
1	Compost plant of 300 TPD capacity has been installed by M/s Jai Prakash Associates.		3 MT Bio-methanation plant is working at slaughter house, Industrial Area Phase – 1. 5 MT capacity Biomethanation plant has been established in Industrial Area Phase – 1.	Corporation transport MSW to the garbage processing plant set up by M/s Jai Prakash Associates where they process the municipal solid waste to produce

${\bf Processing\ facility\ under\ installation/planned:}$

Sr. No.	Composting	Vermi-composting	Biogas	RDF/Pelletisation
1		-	-	-

Waste-to Energy Plants: (Number/names of towns/capacity)

Sr. No.	Plant Location	Status of operation	(MW)	RDF/Pelletisation
1	M/s Jaiprakash Associates Ltd. (Greentech Fuel Processing Plant), Opp. Dumping ground, Dadumajra, Sector - 25 West, Chandigarh		RDF generated is utilised in their own Hot Air Generator and the rest is supplied to nearby industries	RDF production: 175 MT/day (Optimum), Approx. 60 MT/day (present production)

Disposal of solid waste (number/names of towns/capacity):

Landfill sites identified	01 (45 acres)
Landfill constructed	01 (25 acres)
Landfill under construction	-
Landfill in operation	01 (A sanitary landfill has been developed over an area of 8.28 acres of 25 acres which is now used for dumping)
Landfill exhausted	
Landfill capped	01 (16.72 acres out of 25 acres)

Solid Waste Dumpsites (number/names of towns/capacity):

Total number of existing dumpsites	01	
Dumpsites reclaimed/capped	01 (25 acres out of 45 acres)	
Dumpsites converted to sanitary landfill	01 (8.28 acres of 25 acres)	

Monitoring at Waste processing/Landfills sites:

Sr. No.	Name of facilities	Ambient air	Ground water	Leachate quality	Compost quality	VOCs
1.	Dumping/ Landfill site	Taditorna control or discol	Attached as Annexure A	Attached as Annexure A	82 4	-
2.	RDF plant	Attached as Annexure B	-	-	Attached as Annexure C	-

Status of Action Plan prepared by Municipalities:

Total number of municipalities:	01
Number of Action Plan submitted:	Already submitted



cpcc-chd@nic.in

Submission of annual report of Solid Waste Management for the calendar year 2019.

From: sanitationbrmoh17@gmail.com

Thu, Aug 27, 2020 01:43 PM

Subject: Submission of annual report of Solid Waste Management for

@1 attachment

the calendar year 2019.

To: Chandigarh Pollution Control Committee <cpcc-chd@nic.in>

Please find enclosed annual report of Solid Waste Management for the calendar year 2019.

REgards:-

Sanitation Branch

O/o MOH, MCC.

12/8 12/8

Final annual report-2019.docx 36 KB

Form-IV

[See rules 15(za),24(2)]

Format for annual report on solid waste management to be submitted by the local body

CALENDAR YEAR	DATE OF SUBMISSION OF REPORT
2019	

1	Name of the City/Town and State	Chandigarh
2	Population	1055450 Lacs as per census 2011
3	Area in sq Kilometers	114 Sq. KM.
4	Name and Address of the local body Telephone No.	Commissioner, Municipal Corporation, Chandigarh, New Deluxe building, Sec-17-E, Chandigarh. Tel No: 0172-5021402
	Fax No.	Nil
5	Name of the officer incharge dealing with Solid Waste Management(SOLID WASTE)	Dr. Amrit Pal Singh Medical Officer of Health Municipal Corporation, Chandigarh.
	Phone No:	0172-2773340
	E-Mail	mohmcc-chd@nic.in
6	Number of House hold in the city/town Number of non-residential premises in the city	234033 (Census 2011 Urban)
	Number of election/administrative wards in the city/town	26 wards
7	Quantity of Solid waste (SOLID WASTE)	
	Estimated quantity of solid waste generated in the local body area per day in metric tonnes	450TPD
	Quantity of Solid waste collected per day	450 TPD
	Per capita waste collected per year	156Kg
	Quantity of solid waste processed	179.61TPD
	Quantity of solid wastes disposed at dumpsite/landfill	270.39 TPD
8	Status of Solid waste Management Service	
	Segregation and storage of waste at source	Yes
	Whether solid waste is stored at source in domestic/commercial/institutional bins, if yes,	Yes
	Percentage of households practice storage of waste at source in domestic bins	100%
	Percentage of non residential premises practice storage of waste at source in commercial/institutional bins	100%
	Percentage of house hold dispose of throw solid waste on the streets	0.5 to 1% (If any person found throwing Solid
	Percentage of non residential premises dispose or throw solid waste on the streets	waste in the streets, his/her challan is issued)
	Whether SOLID WASTE is stored at source in segregated form, if yes	
	Percentage of premises segregating the waste at source	
	Door to door collection of solid waste	100%
	Whether door to door collection (D2D) is being done in the city/town	Yes
	If yes	By Informal door to door waste collector and they have been integrated with MCC.

Num	per of words assessed in DOD and all all	I				
of was	per of wards covered in D2D collection	In all the 26	wards			
THE RESERVE TO SHARE THE PARTY OF THE PARTY	f households covered	234033 (Ce	nsus 2	011 Urban)		
	of non residential premises including	32186	11000 2	OTT OIDAII)		
comm	ercial establishments, hotels,	30.000 and 0.000				
	irants, educational institutions/offices					
The same of the same of the same of	overed					
	entage of residential and non	100%		E.E.		
reside	ential premises covered in door to					
	collection through ized vehicles	NEI			-	
	ainerized tricycle/handcart	Nil 100%				
	r device	Nil				
	, method of primary collection adopted	N.A.				
Swee	eping of streets		sidenti	al Area & T	Twice in	Commercial
	, ,	Area.	olderial	ai 711ca di 1	WICE III	Commercial
Leng	th of roads, streets, lanes, bye lanes in	1994.84 Km	1			
the cit	ty that need to be cleaned		20			
Frequ	uency of street sweeping percentage of	Frequency	Daily	Alternate	Twice	Occasional
popula	ation covered	8 8	13.523	days	а	ly
					week	-
		% of	100			Service
1 1		population covered	%			Lane
		covered				Once in a week.
Tools	sused	Long hand	le Bro	oms Scrai	oper Ka	assi, Panja,
		Cycle Cart,	Dumpe	r Placer, Tr	ollevs. Ti	ppers, Front
		Loaders etc		. ,,		pp=:=, : :=:
Manu	al sweeping	65%				
Mech	anical sweeping			- 1500 -		
	aa. on ooping			ices 179.84	4Km- lir	near length
Mhoti	her long handle broom used by	which cove	er)			
	her long handle broom used by ation workers	Yes				
	her each sanitation work is given					
hando	cart/tricycle for collection of waste	Yes/ Garbag	ge bin v	vith Tyre als	o provid	ed.
	ther handcart/tricycle is containerized					
VVIIC	their natiocal viricycle is containenzed	Yes (in resp	ect of D	D2D Collecto	ors)	
Whet	her the collection tool synchronizes with	Yes	A CONTRACTOR OF THE PERSON OF			
	tion/waste storage containers utilized	103				
	ondary waste storage facilities					
	and types of waste storage depots in the	There are 3	9 Nos.	SSKs in the	city	
city/to					5854	
	waste storage sites	Nil				
	nry bins	Nil				
	ent concrete cylinder bins	Nil				9
	o/covered rooms/space red metals/plastic containers	Nil	- D:			
	1.1 m3 bins	470 Garbag Nil	e Bin o	f 4.5 cubic r	netre	
	m3 bins	Nil				
	e 5 m3 containers	Nil				
	less city			-		
	opulation ratio	1:2245 (10	55450/	470=2245 6	(3)	
	•		-5.50/	0 2270.0	,,,	
	wise details of waste storage depots	39 Nos.	SSKs	under Mu	inicipal	Corporation
(attac	:h)	Chandigarh	. (List a	attached)		P = . 30011
Ward	No.	2570	***********			
Area:						
Popul						
	per of bins placed:	470 Garbag	e bin o	4.5 cubic n	netre	
	Storage capacity of waste storage es in cubic meters	450-475				
	waste actually stored at the waste	180 MT /A-	nroy 1			
storac	ge depot daily	180 MT (Ap	hiox")			
Give	frequency of collection of waste from	Frequency				No. of bins
the de						. 10. 01 01110
	· ·					

-	Number of bins cleared	Daily		230
		Daily		
		Alternate Day		60
		Twice a week		10
		Once a week		-
		Occasionally		l -
		In addition above, MOH), 10 Tractor also transported th city and makes app	Trolleys of Lions e garbage from variox 190 trips per o	services Lt
	Whether storage depots have facility for storage of segregated waste in green, blue and black bins	Yes (Green and Blu	e)	
		(If yes, add details)		
		No. of green bins:		300
		No. of blue bins:		150
		No. of Black bins:		
	Whether lifting of solid waste from storage depots in manual or mechanical. Give percentage	Mostly Mechanical a	and partially Manu	ial.
	(%) of Manual Lifting of solid	20%		
	Waste (%) of Mechanical lifting	80%		
	If mechanical-specify the method used	Each SSK have g Hydrolic system a loader.	arbage bin and and rest of garb	lifted throug page throug
	Whether solid waste is lifted from door to door and transported to treatment plant directly in a segregated form	Yes The door to door from every house centre/point and th to treatment plant be Trolley.	and transport to ereafter waste is	o collection transported
_	Waste transportation per day	450MTPD		
	Type and Number of Vehicles used	100111111111111111111111111111111111111		
	Animal Cart			
	Tractors	32		
7				
	Non tipping Truck	27/2W	as Cmall	
	Tipping Truck	4 Nos. Large & 7 No	os. Siliali	
	Dumper Placers	58		
	Refuse Collectors/compactors	3		
	Others			
	JCB/Loader	2+4=6	T	
	Frequency of transportation of waste	Frequency Daily	(%) of waste tran 100% MSW is to daily basis at du	ransported o
		Alternate day	1 22	71
		Twice a week		
		Once a week	-	
		Occasionally	-	
	Quantity of waste transported each day	450 MTPD	.1.	
		100%		
	Percentage of total waste transported daily	The state of the s	I1- 1	
	Waste Treatment Technologies used	Waste to RDF & W	raste to compost	
	Whether solid waste processed daily/accepted If yes, Quantity of waste processed	Yes 179.61 TPD		
	daily/accepted Whether treatment is done by local body or	By Outsourced a	gency i.e. M/s	Jai Prakas
	through an agency	Associates.	J,	
	Land(s) available with the local body for waste processing (in Hectares)	4.04 Hectare		
	Land currently utilized for waste processing	Sector-25(West) C	handigarh	
		RDF, Bio-methana	tion & Compost	
	Solid waste processing facilities in operation	RDF, DIO-Memana	tion a Compost	

	city/town boundary	Majra, Chandigarh.
	Details of technologies adopted	The Jaypee plant authority are converting garbage into RDF and compost. The MC has also installed
		bio-methanation plant, Indl. Area, Phase-1, Chd having capacity of 5 TPD.
	Composting	Qty. raw material processed :- 23282 MT
		Qty. final product produced :- 924.57 MT
		Qty. Sold :- MT
		Quantity of residual waste landfilled :-MT
	Vermi composting	Qty. raw material processed:- Nil
		Qty. final product produced:-Nil Qty. sold:- Nil
		Quantity of residual waste landfilled:- Nil
	Bio-methanation	Qty. raw material processed:- 576 MT
	Bio-methanation	Qty. final product produced:- 17678 KVA
		Qty. sold:- Self used
		Quantity of residual waste landfilled:- 1.5 MT
	Refuse Derived Fuel	Qty. raw material processed:- 77793 MT
	Trojudo Bolliva I del	Qty. final product produced:- 12155.87MT
		Qty. sold :- MT
		Quantity of residual waste landfilled :- MT
	Waste to Energy technology	
	waste to Ellergy technology	Such as incineration, gasification, pyrolysis or any other technology (give detail) :- Nil
		Qty. raw material processed:- Nil
		Qty. final product produced:- Nil
		Qty. sold Quantity of residual waste land
		filled:- Nil
	Co-processing(Qty raw material processed)	
	Combustible waste supplied to cement plant	Nil
	Combustible waste supplied to solid waste based power plants	Nil
_	Solid waste disposal facilities	
	No. of dumpsites available with the local body	01
	No. of Sanitary landfill sites available with the local body	01
	Area of the as such site available for waste disposal sites	45 Acres
	Distance of dumpsite/landfill facility from city/Town	On the outskirts of Chandigarh near Village Dadu Majra, Chandigarh.
	Distance from the nearest habitation	0.2 Kms
	Distance from water body	8 Kms
	Distance from state/national highway	4 Kms
	Distance from airport	10 Kms
	Distance from important religious place or historical monuments	8 Kms
	Whether it falls in flood prone area	No
	Whether it falls in earthquake fault line area	Yes
	Quantity of waste landfill each day	270.39TPD (Approx.)
	Whether landfill site is fenced	Yes, Boundary wall/ Fenced
	Whether lighting facility is available on site	Yes
	Whether weigh bridge facility available	Yes
	Vehicles and equipments used at landfill (specify)	02 Nos. Chain Dozers, 02 Nos. JCB & 04 Nos. Tippers, 1 Nos. Tractor for E.M. Solution
	Man power deployed at landfill site	Chief Sanitary Inspector=01, Sanitary Inspector=02, Data Entry Operator=03, Drivers=02, Safaikaramchari=04, & Chowkidar=01
	Man power deployed at landfill site Whether covering is done on daily basis	

	deposited at landfill				
	Cover material used	Malba, Soil Cover etc			
	Whether adequate covering material is available	Yes			
	Provisions for gas venting provided	Yes			
	Provisions for leachate collection	Yes			
9	Whether an action plan has been prepared	Yes			
	for improving solid waste management practices in the city.				
10	What separate provisions are made for:				
	Dairy related activities:	The Cow Dung generated at Cattle pound processed at Bio-methanation plant and some of it handed over to XEN Horticulture for man purpose. The Cow Dung generated at Milk Col.	part nure		
		The Cow Dung generated at Milk Col- Dhanas is self used by the residents.	ony,		
	Slaughter Houses Waste:	The Solid waste of Slaughter House is treate Bio-methanation Plant situated at Slaughter Ho Complex Industrial area ph-1.			
	C& D Waste (Construction debris):	C& D plant has been installed Industrial Area F and starts working w.e.f 15.05.2019.	Ph-1		
11	Details of Post Closure Plan	Out of 45 acres of land 25 Acres of land ha	as		
		been reclaimed by way of capping, covering and closing in 17 Acres and Sanitary Landfill in 8 acres of land.			
12	How many slums are identified and whether	04 Nos.			
	these are provided with solid waste management facilities	(1.) Colony No.4 (2.) Sanjay Colony Indl.Area, Phase-1, (3) Bhaskar Colony,			
		Sec-25 & (4) Shahpur Colony, Sec-38, Chd			
		Yes, Solid Waste Management facilities are provided.			
13	Give details of:	are previous.			
	Local body's own manpower deployed for collection including street sweeping,	Detail of Manpowers deployed:-			
	secondary storage, transportation,	S.No Designation Nos.			
	processing & disposal waste	Health Supervisor (R) 01			
		2. Chief Sanitary Inspector 07 (R)			
		3. Sanitary Inspector (R) 18 4. Multi Purpose Worker (R) 8			
		Head Sanitary Jamadar 0 (R)			
		6. Sanitary Jamadar (R) 103			
		7. Drivers (R) 21			
		8. Cleaner (R) 0 9. Safaikaramcharis(R) 768			
		9. Safaikaramcharis(R) 768 10. Villages (Old) on Daily 37			
	1				
		57 (5.0) 51. Dully			
		11. Safaikaramcharis (Death Case) (Daily wage)			
		11. Safaikaramcharis (Death Case) (Daily wage) 12. 13 U.T villages 149			
4	Cina datalla at	11. Safaikaramcharis (Death Case) (Daily wage)			
4	Give details of: Contractor/concessionaire's manpower deployed for collection including street sweeping, secondary storage, transportation, processing & disposal waste	Wages 11. Safaikaramcharis (Death Case) (Daily wage) 12. 13 U.T villages 149 Total 1226 The manpower deployed for collection includes street sweeping, secondary storage, transportate processing & disposal waste are as under:-	ding tion,		
14	Contractor/concessionaire's manpower deployed for collection including street sweeping, secondary storage, transportation.	Wages 11. Safaikaramcharis (Death Case) (Daily wage) 12. 13 U.T villages 149 Total 1226 The manpower deployed for collection includes street sweeping, secondary storage, transportate processing & disposal waste are as under:-	ding tion,		
14	Contractor/concessionaire's manpower deployed for collection including street sweeping, secondary storage, transportation.	Wages 11. Safaikaramcharis (Death Case) (Daily wage) 12. 13 U.T villages 149 Total 1226 The manpower deployed for collection includes street sweeping, secondary storage, transportate processing & disposal waste are as under:- S.N Designation Nos. 0 1. Sanitary Inspector (C) 29	tion,		
14	Contractor/concessionaire's manpower deployed for collection including street sweeping, secondary storage, transportation.	Wages 11. Safaikaramcharis (Death Case) (Daily wage) 12. 13 U.T villages 149 Total 1226 The manpower deployed for collection includes street sweeping, secondary storage, transportate processing & disposal waste are as under:- S.N Designation Nos. 0 Sanitary Inspector (C) 29 2. Drivers (LMV) 105	tion,		
14	Contractor/concessionaire's manpower deployed for collection including street sweeping, secondary storage, transportation.	Wages 11. Safaikaramcharis (Death Case) (Daily wage) 12. 13 U.T villages 149 Total 1226 The manpower deployed for collection includes street sweeping, secondary storage, transportate processing & disposal waste are as under:- S.N Designation Nos. 0 1. Sanitary Inspector (C) 29	tion,		

		5.	Sanitation Supervisor	4
		6	Safaikaramchans (O S)	1254
			Safaikaramchan by M/s Ligns Services Ltd (C)	1070
			Total	2669
15	Mention briefly, the difficulties being	The M	ICC is taking sincere effor	ts for source
15	Mention briefly, the difficulties being experienced by the local body in compliance with provisions of these rules		ation and non use of Polyther	

Medical Officer of Health Municipal Corporation Chandigarh

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Subject: Test Results of ambient air in Dumping Ground, Chaudigarh on 23.07.2019

S.No.	Location of Sample	PM ₁₀ (μg/m³)	PM 2.5 (μg/m³)	SO ₂ (μg/m³)	NOx (μg/m³)	CO (8 hourly average (mg/m³)
	Permissible Limits (24 hours)	100	60	80	80	2
1.	Location - A	128	-	2	33	<1
2.	Location - B	84	-	2	15	<1
3.	Location - C	51	-	2	16	<1

Location -A: Capped Dumping Ground opposite to the MSW Processing Plant

Location -B:Towards Dadumajra villagé in residential area

Location -C: Towards Dadumajra colony in residential area.

Results analyses:

The above results clearly indicate that all the parameters are well within the permissible limits. Results of Ground Water Samples collected from the periphery of Dumping Ground on (23.07.19)

S.No	Test Parameters	Units	Loc. I	Loc. II	Loc. III	Desirable Limits
0707074			(i)	Results		Desirable Limits
1	pH		7.1	7.2	7.5	6.5 to 8.5
2	Total Hardness	mg/l	318	318	274	Max 300
- 3	Iron	mg/l	0.11	0.12	0.34	Max 0.3
4	Chlorides	mg/l	50	45	33	Max 250
5	Total Dissolved Solids	mg/l	496	464	386	Max 500
6	Mercury	mg/l	0.01	0.01	0.01	Max 0.001
7	Cadmium	mg/l	0.01	0.01	0.01	Max 0.01
8	Arsenic	mg/l	0.01	0.01	0.01	Max 0.05
9	BOD	mg/l	1.5	1.6	<1	
10	COD	mg/l	18	30	16	
.11	Lead	mg/l	0.01	0.05	0.01	Max 0.05
12	Zinc	mg/l	0.34	0.01	0.02	Max 5
13	Total Chromium	mg/l	0.01	0.01	0.01	Max 0.05
14	Copper (as Cu)	mg/l	0.01	0.10	0.01	Max 0.05
15	Nickel	mg/l	0.01	0.01	.01	
16	Sulphate (as SO ₄)	mg/l	68	45	38	Max 200
17	Nitrate (as NO ₃)	mg/l	22	18	9.8	Max 45
18	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	0.76	0.50	0.50	Max 0.001
19	Cyanide	mg/l	0.05	0.05	0.05	Max 0.05
20	Total Coliform	MPN/100ml	<1	13	8	Absent
21	Faecal Coliform	MPN/100ml	<1 .	. <1	<1	Absent

Location-1: Hand pump(Near Dumping Ground)

Location-II: Hand pump (Near Dhaba, Vill-Dadoo majra,

Location-III: Hand pump (Shiv Mandir,/Gorkhnath mandirDMC Colony

The above result shows that most of the parameters are well within the permissible limits except following:-

1 Total hardness exceeds the permissible limit at Location I and Location II

2.Mercury exceeds the permissible limit at Location I and Location II Location III

3.Phenolic compounds exceeds the permissible limit at Location I and Location II Location III

Results of Leachate Water Samples collected from the Dumping Ground (23.07.2019)

S.No.	Test Parameters		Wastewater Leachate from Dumping Ground		
		Units	Results	Limits	
1	рН		7.8	5.5 to 9.0	
2	Chlorides	mg/l	6300	1000	
3	Total Dissolved Solids	mg/l	35000	2100	
4	Mercury	mg/l	0.02	.01	
5	Cadmium	mg/l	.01	2.0	
6	Arsenic	mg/l	0.21	0.2	
7	Cyanide	mg/l	0.05	0.2	
8	Lead	mg/l	0.22	0.1	
9	Zinc	mg/l	1.82	5.0	
10	Total Chromium	mg/l	0.79	2.0	
11	Copper (as Cu)	mg/l	0.48	3.0	
12	Nickel	mg/l ·	0.66	3.0	
13	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	0.5	0.1	
14	BOD	mg/l	12240	_	
15	Nitrate (as NO ₃)	mg/l	71		
16	Sulphate (as SO ₄)	mg/l	745	200	
17	Total Hardness	mg/l	9000	300	

Note:- There is no provision of treatment of leachate at dumping ground, but the leachate generated is transported for treatment in the Effluent Treatment Plant of Jaypee Plant.



Test Report

Document QF: 2501 Page 1 of 3

Sample Reg. No. :E01-1912060504	
Sample Reg. Date :06-12-2019	
Report Date :12-12-2019	
Report No. :ICE-1912120795	
NABL ULR No. :TC592619000017232P	
Customer Ref. No.:-	
Letter Dated :-	_
	Sample Reg. Date :06-12-2019 Report Date :12-12-2019 Report No. :ICE-1912120795 NABL ULR No. :TC592619000017232P Customer Ref. No.:-

Kep	ort as per IS:1S 10500 - 2012	With Amendment No.(s);
RT A	; PARTICULARS OF SAMPLE SUBMIT	TED
a) N	ature of Sample#	Ground Water
o) G	rade / Variety / Type / Class / Size etc.	NA
c) B	rand Name	NA
d) D	eclared Values, if any	NA
e) C	Code No.	
f) B	Satch Number#	NA
g) [D.O.M#	NA
h) [Date of Expiry#	NA
i) S	Sample Quantity #	5 Ltr
j) I	Batch Size/Location#	NA
)) !	Mode of Packing	Packed in can
1)	Date of Receipt	06-12-2019
m)	Date of Start	06-12-2019
n)	Date of Completion	12-12-2019
0)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. Mr. Sahil on 05.12.2019
r)	Test Request Submitted By	Medical Officer of Health-Chandigarh (Chandigarh)
s)	Manufactured By#	NA
	Supplied By#	NA

Grinap.1 --

Saurabh Sharma 12-12-2019 Reviewer

12-12-2019 PremKumar [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.
(ISO 9001:2008 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)
(A Government Approved Test House)
86, Industrial Area, Phase-I, Panchkula-134109 (Haryana)

Phone: (O) 0172-2561543, 2565825

Visit us : www.itclabs.com Email : customersupport@itclabs.com

Disclaimer:

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 Total Liability of this Laboratory is limited to the Invoiced amount.
 Test certificates in full or parts shall not be used for promotional or publicity
- purpose.

 If sample is not consumed during analysis, it will be stored as per SOP of controlled sample management.



Test Report

Document QF: 2501 Page 2 of 3

Issued To

Medical Officer of Health

Municipal Corporation, SCO 6, 7, 8 & 9, 30 Bays Building,

Chandigarh

Sample Reg. No. :E01-1912060504 Sample Reg. Date :06-12-2019 :12-12-2019 Report Date

:ICE-1912120795

NABL ULR No. :TC592619000017232P

Customer Ref. No .:-

Letter Dated

..... Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or : N/A photographs as appropriate to test reports, if any

Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any

PART C: TEST RESULTS

Description

Clear colourless liquid Description

S.No.	Test Parameter	Method	Requirement	Result
est De	ails:			
1.	General Parameters			
a.	pH Value	1S:3025 (Part - 11):1983(RA:2017)	6.5-8.5	7.22
b.	Total Hardness(As CaCO ₃)(mg/l)	IS:3025(Part 21)	300 Max.	285
c.	Chloride(as Cl)(mg/l)	IS:3025(P-32)	250 Max.	26
O _d .	Total Dissolved Solids,(mg/L)	IS:3025(Part 16):1984(RA.2006)	500 Max.	450
e.	Copper(As Cu)(mg/l)	IS:3025(P-65)	0.05 Max.	BLQ(LOQ:0.001)
f.	Sulphate(as SO4)(mg/l)	IS:3025(P-24)	200 Max.	11.2
g.	Nitrate as NO ₃ (mg/l)	IS:3025(P-34)	45.0 Max.	BLQ (LOQ: 1.0)
h.	Phenolic Compounds (as C ₆ H ₅ OH) (mg/L)	IS:3025(P-43)	0.001 Max.	BLQ (LOQ: 0.001)
i.	Mercury(As Hg)(mg/l)	IS:3025(P-65)	0.001 Max.	BLQ(LOQ:0.001)
j.	Cadmium(as Cd)(mg/l) *	IS:3025(P-65)	0.01 Max.	BLQ(LOQ:0.001)
k.	Arsenic(as As)(mg/l)	IS:3025(P-65)	0.01 Max.	BLQ(LOQ:0.001)
l.	Cyanide (as CN),(mg/l)	IS:3025(P-27)	0.05 Max.	BLQ (LOQ: 0.01)
m.	Lead(as Pb)(mg/l)	IS:3025(P-65)	0.05 Max.	BLQ(LOQ:0.001)
n.	Zinc(as Zn)(mg/l)	IS:3025(P-65)	5.0 Max.	0.001
0,	Chromium (as Cr ⁶⁺),(mg/l)	Apha 23rd Edn.2017- 3120 B/IS:3025(Part 57):2004(RA:2017)	0.05 Max.	BLQ (LOQ : 0.01)
p.	Nickel(as Ni),mg/l	IS:3025(P-65)	Not Specified	BLQ(LOQ:0.001)

- المادينين

Saurabh Sharma 12-12-2019

12-12-2019 PremKumar [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd. (ISO 9001:2008 & 14001:2015 OHSAS 18001:2007 Certified Laboratory) (A Government Approved Test House) 86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

Phone: (O) 0172-2561543, 2565825

Visit us : www.itclabs.com Email : customersupport@itclabs.com

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Test Report

Document QF: 2501

Page 3 of 3

Issued To

Medical Officer of Health

Municipal Corporation, SCO 6, 7, 8 & 9, 30 Bays Building,

Chandigarh

Sample Reg. No. :E01-1912060504 Sample Reg. Date :06-12-2019 Report Date

Report No.

:12-12-2019 :ICE-1912120795

NABL ULR No. :TC592619000017232P

Customer Ref. No .:-

Letter Dated

Iron as Fe,(mg/L)

IS:3025(P-65)

0.3 Max.

0.137

** _presents categories/test parameters not covered under NABL | *** represents outsource sample | *# represents Customer Defined Fields

NOTE: NA- Not Applicable, BLQ: - Below Limit of Quantification, LOQ: - Limit of Quantification, Requirements as per Solid waste Management Rules 2016

PART D: REMARKS: N/A

*****End Of Report****

Quere bil...

Saurabh Sharma 12-12-2019 Reviewer

12-12-2019 [Authorized Signatory]

Interstellar Testing Centre Pvt, Ltd. (ISO 9001:2008 & 14001:2015 OHSAS 18001:2007 Certified Laboratory) (A Government Approved Test House) 86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

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Test Report

Document QF: 2501

Page 1 of 2

Issued To

Medical Officer of Health

Municipal Corporation, SCO 6, 7, 8 & 9, 30 Bays Building,

Chandigarh

Sample Reg. No. :E01-1912060505

Sample Reg. Date :06-12-2019

:14-12-2019

Report Date Report No.

:ICE-1912140861

Customer Ref. No.:-

NABL ULR No. :TC592619000017298F

Letter Dated

Report as per IS

: NAAQS 2009

General Information

Location of Sampling Point

Date of Monitoring

Purpose of Monitoring

Duration of Monitoring, minutes

Avg. Flow Rate of Sampling,m3/min

Volume of air sampled,m3 Avg. Ambient Temperature,°C

: Near Dadumajra Colony

: 05-12-2019

: To assess the Pollution level

: 1440

: 1.18 : 1671.31

: 22

TEST RESULTS

Description

Description

Ambient Air Quality Monitoring

S.No.	Test Parameter	Method	Requirement	Result
est Det	ails:	*		
1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO2),µg/m3	IS:5182(P-2)	80 Max	12
b.	Nitrogen Dioxide(NO2),µg/m3	IS:5182(P-6)	80 Max	21
c.	Particulate Matter (PM ₁₀),µg/m3	IS;5182(P-23)	100 Max	88
d.	Particulate matter (PM 2.5),µg/m3	STP/ITC/EW-01	60 Max	42
e.	Ozone(O ₃),µg/m3	IS:5182(P-9)	180 Max	BLQ (LOQ:14)
f.	Lead(As Pb),μg/m3	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ:0.1)
g.	Carbon Monoxide(CO),mg/m3	IS:5182(P-10)	4 Max	1.2
h.	Ammonia(NH3),µg/m3	Method of Air Sampling &Analysis(Method No. 401)	400 Max	BLQ (LOQ:20)
i.	Benzene (C ₆ H ₆),µg/m3	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

Comphy-

Saurabh Sharma 14-12-2019 Reviewer

14-12-2019 [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd. (ISO 9001:2008 & 14001:2015 OHSAS 18001:2007 Certified Laboratory) (A Government Approved Test House) 86, Industrial Area, Phase-I, Panchkula-134109 (Haryana) Phone: (O) 0172-2561543, 2565825

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Test Report

Document QF: 2501

Page 2 of 2

Issued To

Medical Officer of Health

Municipal Corporation, SCO 6, 7, 8 & 9, 30 Bays Building,

Chandigarh

Sample Reg. No. :E01-1912060505 Sample Reg. Date :06-12-2019

Report Date

:14-12-2019

Report No.

:ICE-1912140861

NABL ULR No. :TC592619000017298F

Letter Dated

Customer Re	ef. No.:-
v m	P. 148

T.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182; (Part 12)	1 Max	BLQ(LOQ:0.2)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
1,	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)

^{&#}x27;#' represents Customer Defined Fields

NOTE; NA-Not Applicable, BLQ: Below Limit of Quantification, LOQ: Limit of Quantification, Requirements as per NAAQS 2009,

REMARKS: N/A

*****End Of Report****

Saurabh Sharma

14-12-2019 Reviewer

14-12-2019 PremKumar [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd. (ISO 9001:2008 & 14001:2015 OHSAS 18001:2007 Certified Laboratory) (A Government Approved Test House) 86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

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Test Report

Document QF: 2501

Page 1 of 2

Issued To

Medical Officer of Health

Municipal Corporation, SCO 6, 7, 8 & 9, 30 Bays Building,

Chandigarh

Sample Reg. Date: 06-12-2019 Report Date :14-12-2019 Report No.

Sample Reg. No. :E01-1912060506

:ICE-1912140862

NABL ULR No. :TC592619000017300F

Customer Ref. No .:-

Letter Dated

Report as per IS

: NAAQS 2009

General Information

Location of Sampling Point

Date of Monitoring

Purpose of Monitoring

Duration of Monitoring, minutes

Avg. Flow Rate of Sampling,m3/min

Volume of air sampled,m3 Avg. Ambient Temperature,°C

: Near Dumping Site

: 05-12-2019

: To assess the Pollution level

: 1440

: 1.20

: 1699.64

: 22

TEST RESULTS

Description

Description

Ambient Air Quality Monitoring

.No.	Test Parameter	Method	Requirement	Result
st Det	ails:			
1.	Ambient Air Quality Parameters			
а.	Sulphur Dioxide(SO2),µg/m3	IS:5182(P-2)	80 Max	18
b.	Nitrogen Dioxide(NO2),µg/m3	IS:5182(P-6)	80 Max	30
c.	Particulate Matter (PM ₁₀),µg/m3	IS:5182(P-23)	100 Max	96
d.	Particulate matter (PM 2.5),µg/m3	STP/ITC/EW-01	60 Max	53
е.	Ozone(O ₃),µg/m3	IS:5182(P-9)	180 Max	BLQ (LOQ:14)
f.	Lead(As Pb),µg/m3	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ:0.1)
g.	Carbon Monoxide(CO),mg/m3	IS:5182(P-10)	4 Max	1.4
h.	Ammonia(NH3),µg/m3	Method of Air Sampling & Analysis (Method No. 401)	400 Max	BLQ (LOQ:20)
i.	Benzene (C ₆ H ₆),µg/m3	IS 5182 (Part 11)	5 Max	BLQ (LOQ:1.0)

سلطعيب

Saurabh Sharma 14-12-2019 Reviewer

14-12-2019 PremKumar

Interstellar Testing Centre Pvt. Ltd. (ISO 9001:2008 & 14001:2015 OHSAS 18001:2007 Certified Laboratory) (A Government Approved Test House) 86, Industrial Area, Phase-1, Panchkula-134109 (Haryana)

Phone: (O) 0172-2561543, 2565825 Visit us : www.itclabs.com Email : customersupport@itclabs.com Disclaimer:

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purpose.

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Test Report

Document QF: 2501 Page 2 of 2

Issued To

Medical Officer of Health

Municipal Corporation, SCO 6, 7, 8 & 9, 30 Bays Building,

Chandigarh

Sample Reg. No. :E01-1912060506 Sample Reg. Date :06-12-2019

Report Date

:14-12-2019

Report No.

:ICE-1912140862

NABL ULR No. :TC592619000017300F

Customer Ref. No .:-

Letter Dated

į.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.2)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Мак.	BLQ(LOQ:1.0)
1.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)

^{&#}x27;#' represents Customer Defined Fields

NOTE: NA- Not Applicable, BLQ: - Below Limit of Quantification, LOQ: - Limit of Quantification, Requirements as per NAAQS 2009,

REMARKS: N/A

*****End Of Report****

Saurabh Sharma 14-12-2019 Reviewer

14-12-2019 PremKumar [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd. (ISO 9001:2008 & 14001:2015 OHSAS 18001:2007 Certified Laboratory) (A Government Approved Test House) 86, Industrial Area, Phase-I, Panchkula-134109 (Haryana) Phone: (O) 0172-2561543, 2565825 Visit us : www.itclabs.com Email : customersupport@itclabs.com

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Test Report

Document QF: 2501

Page 1 of 2

Issued To

Green Tech Fuel Processing Plant

(A Unit of Jaiprakash Associates Ltd.), Opp. Dumping Ground,

Sector-25 (West), Dadumajra, Chandigarh

Chandigarh

Sample Reg. No. :E01-2001230520

Sample Reg. Date :23-01-2020

Report Date

:31-01-2020

Report No.

:ICE-2001310716

NABL ULR No. :TC592620000000852F

Customer Ref. No.:-

Letter Dated

Test Report as per IS

: NAAQS 2009

General Information

Location of Sampling Point

Date of Monitoring

Purpose of Monitoring

Duration of Monitoring, minutes

Avg. Flow Rate of Sampling,m3/min

Volume of air sampled,m3

Avg. Ambient Temperature, °C

: Near Main Gate Area

: 21-01-2020

: To assess the pollution level

: 1440

: 0.038

: 55.52

: 13

TEST RESULTS

Description

Description

Ambient Air Quality Monitoring

S.No.	Test Parameter	Method	Requirement	
l'est De	tails :		Requirement	Result
· 1.	Ambient Air Quality Parameters			
a.	Sulphur Dioxide(SO2),µg/m3	IS:5182(P-2)	80 Max	10
ь.	Nitrogen Dioxide(NO2),µg/m3	IS:5182(P-6)	80 Max	16
c.	Particulate Matter (PM ₁₀),µg/m3	IS:5182(P-23)	100 Max	92
d,	Particulate matter (PM 2.5),µg/m3	STP/ITC/EW-01	60 Max	49
е,	Ozone(O ₃),µg/m3	· IS:5182(P-9)	180 Max	BLQ (LOQ:14)
f.	Lead(As Pb),µg/m3	Method of Air sampling & Analysis(Method No. 822)	1.0 Max	BLQ(LOQ:0.1)
g.	Carbon Monoxide(CO),mg/m3	IS:5182(P-10)	4 Max	1.2
h.	Ammonia(NH3),μg/m3	Method of Air Sampling &Analysis(Method No. 401)	400 Max	BLQ (LOQ:5.0)
i.	Benzene (C ₆ H ₆),μg/m3	IS 5182 (Part 11)	5 Max	BLQ (LOO:1.0

Garatel .-

Saurabh Sharma 31-01-2020

Reviewer

31-01-2020 PremKumar [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory) (A Government Approved Test House)

86, Industrial Area, Phase-I, Panchkula-134109 (Haryana) Phone - 101 0177-7561543 2565825

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Test Report

Document QF: 2501

Page 2 of 2

Issued To

Green Tech Fuel Processing Plant

(A Unit of Jaiprakash Associates Ltd.), Opp. Dumping Ground,

Sector-25 (West), Dadumajra, Chandigarh

Chandigarh

Sample Reg. No. :E01-2001230520

Sample Reg. Date :23-01-2020

Report Date

:31-01-2020

Report No. NABL ULR No. :TC592620000000852F

:ICE-2001310716

Customer Ref. No .:-

Letter Dated

j.	Benzo (a) Pyrene Particulate Phase only,ng/m3	IS 5182: (Part 12)	1 Max	BLQ(LOQ:0.5)
k.	Arsenic(as As),ng/m3	Method of Air sampling & Analysis(Method No. 822)	6 Max.	BLQ(LOQ:1.0)
l.	Nickel(As Ni),ng/m3	Method of Air sampling & Analysis(Method No. 822)	20 Max.	BLQ(LOQ:1.0)

'#' represents Customer Defined Fields

NOTE: NA- Not Applicable, BLQ: - Below Limit of Quantification, LOQ: - Limit of Quantification, Requirements as per NAAQS 2009,

REMARKS : N/A -

End Of Report**

Saurabh Sharma

31-01-2020 Reviewer

31-01-2020 PremKumar [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory)

(A Government Approved Test House)

86. Industrial Area, Phase-I, Panchkula-134109 (Haryana)

Phone . (O) 0172-2561543, 2565825,

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Test Report

Document QF: 2501

Page 1 of 2

Issued To

Green Tech Fuel Processing Plant

(A Unit of Jaiprakash Associates Ltd.), Opp. Dumping Ground,

Sector-25 (West), Dadumajra, Chandigarh

Chandigarh

Sample Reg. No. :E01-2001230518 Sample Reg. Date :23-01-2020 Report Date :28-01-2020

Report No.

:ICE-2001280619 NABL ULR No. :TC592620000000740F

Customer Ref. No .:-Letter Dated

		Letter Dated :-
est F	Report as per IS:NA	Vith Amendment No.(s):
PART	TA: PARTICULARS OF SAMPLE SUBMITTED	
a)	Nature of Sample#	ETP Inlet Water
b)	Grade / Variety / Type / Class / Size etc.	NA NA
c)	Brand Name	NA
d)	Declared Values, if any	NA NA
e)	Code No.	
f)	Batch Number#	NA
g)	D.O.M#	NA NA
h)	Date of Expiry#	NA
i)	Sample Quantity#	2 Ltr
j)	Batch Size/Location#	NA
k)	Mode of Packing	Packed in can
1)	Date of Receipt	23-01-2020
m)	Date of Start	23-01-2020
n)	Date of Completion	28-01-2020
/o)	Seal (Intact/Not Intact/Unsealed)	NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. on 21.01.2020
r)	Test Request Submitted By	Green Tech Fuel Processing Plant-Chandigarh (Chandigarh
s)	Manufactured By#	NA Containing the second secon
t)	Supplied By#	NA
PAR'	T B : SUPPLIMENTARY INFORMATIONS	

Saurabh Sharma 28-01-2020 Reviewer

28-01-2020 PremKumar [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001;2007 Certified Laboratory) (A Government Approved Test House)

86, Industrial Area, Phase-I, Panchkula-134109 (Haryana)

Phone: (O) 0172-2561543, 2565825,

Disclaimer:

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Test Report

Document QF: 2501

Page 2 of 2

Issued To

Green Tech Fuel Processing Plant

(A Unit of Jaiprakash Associates Ltd.), Opp. Dumping Ground,

Sector-25 (West), Dadumajra, Chandigarh

Chandigarh

Sample Reg. No. :E01-2001230518

Sample Reg. Date :23-01-2020

Report Date

:28-01-2020

Report No.

:ICE-2001280619

NABL ULR No. :TC592620000000740F

Customer Ref. No .:-Letter Dated

Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any

: N/A

Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any

: N/A

PART C: TEST RESULTS

1000				
Je	SCI	rin	tio	m

escription	on		ETP Inlet water	ŧ.
38		94		1
S.No.	Test Parameter	100	Method	Result
Test Deta	nils:	1 1		
1.	General Parameters	2.25	A ^f	
a.	pH Value		IS:3025 (Part - 11):1983(RA:2017)	6.30
b.	Total Suspended Solids,(mg/L)	i i	IS:3025(Part 17)	47
c.	Total Dissolved Solids (mg/l)	-114 -	IS:3025(Part 16):1984(RA.2006)	2941
d.	Chemical Oxygen Demand(mg/L)		APHA-23rd Edition	970
e,	Bio-chemical Oxygen Demand(mg/L)(3 days at 27°C)		IS:3025(P-44)	348
f.	Oil & Grease(mg/L)		IS:3025(P-39)	4.6

^{&#}x27;#' represents Customer Defined Fields

→OTE : NA- Not Applicable,

PART D: REMARKS: N/A

*****End Of Report****

Saurabh Sharma

28-01-2020 Reviewer

28-01-2020 PremKumar [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001:2015 & 14001:2015 OHSAS 18001:2007 Certifled Laboratory)

(A Government Approved Test House)

86, Industrial Area, Phase-I, Panchkula-134109 (Haryana)

Phone: (O) 0172-2561543, 2565825,

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Test Report

Document QF: 2501

T. L. S. S. S. S. S.	
Page !	of2

Issued To

Green Tech Fuel Processing Plant

(A Unit of Jaiprakash Associates Ltd.), Opp. Dumping Ground,

Sector-25 (West), Dadumajra, Chandigarh

Chandigarh

Sample Reg. No. :E01-2001230519 Sample Reg. Date :23-01-2020 Report Date :28-01-2020 Report No. :ICE-2001280620 NABL ULR No. :TC5926200000000741F

Customer Ref. No.:-

		Customer Ref. No.:- Letter Dated :-
Test	Report as per IS:EPA Act 1986/PCLS/2010	With Amendment No.(s);
PAR	T A : PARTICULARS OF SAMPLE SUBMITT	ED
a)	Nature of Sample"	ETP Outlet Water
b)	Grade / Variety / Type / Class / Size etc.	NA NA
c)	Brand Name	NA
(d)	Declared Values, if any	NA
c)	Code No.	
f)	Batch Number#	NA
g)	D.O.M#	NA
h)	Date of Expiry#	NA
i)	Sample Quantity#	2 Ltr
j)	Batch Size/Location#	NA
k)	Mode of Packing	Packed in can
l)	Date of Receipt	23-01-2020
m)	Date of Start	23-01-2020
n)	Date of Completion	28-01-2020
0)	Seal (Intact/Not Intact/Unsealed)	· NA
p)	IO'S Signature (Signed/Unsigned)	Unsigned
q)	Any Other Information	Sample collected by lab rep. on 21.01.2020
r)	Test Request Submitted By	Green Tech Fuel Processing Plant-Chandigarh (Chandigarh
s)	Manufactured By#	NA
	Supplied By#	NA

ساياهسيني

Saurabh Sharma 28-01-2020 Reviewer

28-01-2020 PremKumar [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9001.2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory) (A Government Approved Test House)

86, Industrial Area, Phase-I, Panchkula-134109 (Haryana) Phone: (O) 0172-2561543, 2565825,

Visit me unau itelahs com E. mail : customersunnort@itelahs com

- 1. Sample (s) not drawn by us unless otherwise stated.
- 2. Total Liability of this Laboratory is limited to the Invoiced amount.

3. Test certificates in full or parts shall not be used for promotional or Publicity purpose.



Test Report

Document QF: 2501

Page 2 of 2

Issued To

Green Tech Fuel Processing Plant

(A Unit of Jaiprakash Associates Ltd.), Opp. Dumping Ground,

Sector-25 (West), Dadumajra, Chandigarh

Sample Reg. No. :E01-2001230519

Sample Reg. Date :23-01-2020

Report Date

:28-01-2020

Report No.

:ICE-2001280620

NABL ULR No. :TC592620000000741F

Customer Ref. No .:-

Letter Dated

Supporting documents for the measurement taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test reports, if any

Deviation from the test methods as prescribed in relevant ISS/WORK Instruments, if any

PART C: TEST RESULTS

Description

escript	HOII	ETP Outlet Water				
S.No.	Test Parameter	Method	D			
Γest De	tails:	Hieliod	Requirement	Result		
1.	General Parameters					
a.	pH Value	IS:3025 (Part - 11):1983(RA:2017)	5,5-9	7.20		
b.	Total Suspended Solids,(mg/L)	IS:3025(Part 17)	Max. 100	26		
c.	Total Dissolved Solids (mg/l)	IS:3025(Part 16):1984(RA.2006)	Max. 2100	2008		
d.	Chemical Oxygen Demand(mg/L)	APHA-23rd Edition	Max. 250	81		
e.	Bio-chemical Oxygen Demand(mg/L)(3 days at 27°C)	IS:3025(P-44)	Max. 30			
f.	Oil & Grease(mg/L)	IS:3025(P-39)	Max. 10	0.4		

'#' represents Customer Defined Fields

NOTE: NA- Not Applicable, Requirements as per EPA 1986/PCLS/2010

PART D: REMARKS: N/A

*****End Of Report****

Saurabh Sharma 28-01-2020 Reviewer

PremKumar [Authorized Signatory]

Interstellar Testing Centre Pvt. Ltd.

(ISO 9601:2015 & 14001:2015 OHSAS 18001:2007 Certified Laboratory) (A Government Approved Test House) 86, Industrial Area, Phase-I, Panchkula-134109 (Haryana)

Phone: (O) 0172-2561543, 2565825,

Disclaimer:

1. Sample (s) not drawn by us unless otherwise stated.

2. Total Liability of this Laboratory is limited to the Invoiced amount.

3. Test certificates in full or parts shall not be used for promotional or Publicity purpose.



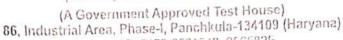
Issued To

Chandigarh

Green Tech Fuel Processing Plant

(A Unit of Jaiprakash Associates Ltd.), Sector-25 (West), Chandigarh

Interstellar Testing Centre Pvt. Ltd. (Formerly International Testing Centre)



Phone: (O) 0172-2561543, 2565825

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Page 1 of 2

KVOA

10/2 6001 2008 & 14001 2016 Oldan 14001 2007 Cartified Laberatory

Test Report (FINAL)

Sample Reg. No. :F01-1801110504

Sample Reg. Date :11-01-2018 :19-01-2018

Report Date Report No

:ICF-1801190929

Customer Ref. No.:Letter :11-01-2018 Letter Dated

		Letter Dated :11-01-2018
Test Report as per IS:FCO-1985		With Amendment No.(s):2017
PAR	TA: PARTICULARS OF SAMPLE SUBMIT	TED
a)	Nature of Sample	Organic Fertilizers (City Compost)
b)	Grade / Variety / Type / Class / Size etc.	N/A
c)	Brand Name	N/A
(b	Declared Values,if any	N/A
e)	Code No.	
1)	Batch Number	NA
g)	D.O.M	N/A
h)	Date of Expiry	N/A
i)	Sample Quantity	500 gm
j)	Batch Size	N/A
k)	Mode of Packing	Packed in a poly pack
1)	Date of Receipt	11-01-2018
m)	Date of Start	11-01-2018
n)	Date of Completion	19-01-2018
0)	BIS Seal (Intact/Not Intact/Unsealed)	Unscaled
1. — (-p)		Unsigned
(q)	Any Other Information	N/A
r)	Submitted By	Green Tech Fuel Processing Plant
s)	Manufactured By	NA
1)	Supplied By	NA
1	RT B : SUPPLIMENTARY INFORMATIONS	
a	n f to compling procedure whenever appli	cable : N/A
b	or photographs as appropriate to test reports, it at	and results derived like graphs, tables, sketches and / : Graph
· · · ·	the start methods as prescribed in	elevent ISS/WORK Instruments, if any : N/A Golden







(Formerly International Testing Centre)

(A Government Approved Test House) 86, Industrial Area, Phase-I, Panchkula-134109 (Haryana)

Phone: (O) 9172 2581543 275885.

Visit us: www.itclabs.com E-mail: customeroupson@itclabs.com powered Of: 2591
Test Report (PINAL)

Issued To

Green Tech Fuel Processing Plant

(A Unit of Jaiprakash Associates Ltd.), Sector-25 (West), Chandigarh Report No.

Chandigarh

Sample Reg. No. : 101-1801/19504 Sample Reg. Date :11401-2018

:19-1/1-2012 Report Date

:ICE-1801100009

Customer Ref. No.:Letter

Letter Dated

:11-01-2018

71/1	C: TEST RESULTS		Method	Requirement	Result		
No.	Test Parameter	Inst. Used	Method	7.0.900			
est D	etails:				-		
1	Description						
n	Description The material is in the form of known color of Proposition						
2.	Chemical Parameters		pero 1585	13.4 to 13.6	21.5		
ii.	Moisture(% by mass)	Chemically		Mirror VII-			
ь	Particle size (% by mass)	Chemoully	\$1741005	protected and design to the control of the control	96 12		
			\$17,1585		1.79		
c	Bulk density (g/cm ⁹)	Chemically Chemically	\$634 (SAS	12	3111		
d	Total Organic Carbon (% by mass), Min		FC(2-1505	4.8	166		
e.	Total Nitrogen (as N) (% by mass). Min	Chemically	FC(>1983	9.4	170		
1.	Total Phosphate (as P2O5) (% by mass), Min	Chemically	FCG-1985	0.4	0.51		
2	Total Potash (as K2O) (% by mass), Min	Chemically		- 22	18.96		
h	C.N Ratio -	Chemistily	FCKI-1985	11011	67		
1	pH Value (1% solution)	Chemically	FCG-1985	50F 15	111		
1	Conductivity (as dsm-1)	Chemically	1				
3.	Microbiological Tests	Macrobiological	56-99-1-3017	1000	Allocat		
а	Salmonella/25gm		15 4887 (9-1) 1976	Aligent	Abset		
h	E.coli/gm	Marchiological	9,5 2611 15 5887 P-2 (1976		Albert		
c	S.gurcus/ gm	Miciolaskogical	RX 1011	Kircit			
d	P aeruginusa/gm	Microbiological	15 13429 APPER -D. 2005	Alres	KROSEK		
4.	Heavy Metals			March.	1.19		
a .	Niekel (as NiXppm)	ICPMS	TIC SIPS 1567 OR		11934		
-	Zinc(as Zn)(ppra1 5.)	ICPMS	THE STREET PAST ONE	V/8 7100	25.64		
<u> </u>	Lead(as Pb)(ppm)	ICPM5	TIC SIPP DISTING	Marie			
	Copper(as Cu).(pprn)	KERMA	THE STREETS OF	Mar 700	61.97		
d	Mercury(as Hg/ppm)	1CP945	गर प्राप्त । प्रशासक	Mex 3 G	3 (1		
С.		1CPMS	MESTER INSTON	May 10.0	5.55		
1	Arsenictas As2O3).(ppm)	ICPMS	ECSISTESTON	Mar 11	5.49		
g	Cadmium(as Cd)(ppm)	ICPMS	FESTIS baton	Max 10 0	(9.29		
h	Chromaum(as Cry/ppin)						
5.	Organoleptic Test	Chemically	100-1985	Dank Brown to Nook	Das trovs		
11.	Colout	Chemically	FC O-1985	Absence of final odner	Present of ford		

PART D: REMARKS: The above submitted sample of Organic Fertilizers (City Compost) conforms to FCO-1985 with a pro-line and the conformation of the the above tests.

Jaspreet Kaur [Tech Manager (Micro.)]

Reviewer *****End Of Report****

[Tech Manager (F&C)]