

Format-A for submission of Annual Inventory of Hazardous waste Management by Occupiers

Haryana State Pollution Control Board

Year: 2016-17

Name of the District	Number of HW Generating Industry	Quantity of Hazardous Waste as per authorization (MTA)	Quantity of Hazardous Waste Generated as per Annual Return (MTA)	Quantity Disposed in Captive SLF (MT)	Quantity Disposed through Common SLF at TSDF (MT)	Quantity Disposed by Captive Incinerator (MT)	Quantity Disposed through Common Incinerator at TSDF (MT)	Quantity Co-processed in Cement Kiln (MT)	Quantity Utilized under Rule 9 (MT)	Quantity sent to Recyclers of Schedule -IV Hazardous Wastes (MT)	Captive Utilization (MT)	Quantity of HW stored at Occupier premises at the end of the year (MT)
1	2	3	4	5	6	7	8	9	10	11	12	13
Yamuna Nagar	150	5305.14	4097.84	0	82.545	0	143.095	0	0	509.44	0	3362.76
Karnal	83	1486.6	1040.5	0	77.2	0	98.3	0	0	302.12	0	562.88
Panipat	363	9679.06	7286.3402	0	453.95	0	199.97	0	3566.25	2410.1815	0	655.9725
Gurgaon (N)	529	13403.22	12842.99	325	320.07	774	4831.125	5004.1	0	1398.08	0	190.615
Mewat	44	362.34	324.12	0	111.695	0	123.405	0	0	89.02	0	0
Rewari	223	4435.73	4346.03	362.71	1447.42	413.8	2009.08	0	0	113.02	0	0
Mohindergarh	5	0.835	0.815	0	0	0	0.505	0	0	0.31	0	0
Sonepat	366	1122.365	852.994	0	494.68	4.68	137.315	0	0	97.281	0	119.038
Faridabad	252	1633.16	1633.16	0	828.535	0	431.05	0	0	35	0	338.575
Jind	13	24.173	24.173	0	1.38	0	17.29	0	0	0	0	5.503
Bhiwani	12	50.612	50.612	0	40.925	0	3.315	0	0	0	0	6.372

Kaithal	5	1.192	1.192	0	0.35	0	0	0	0	0	0	0.842
Panchkula	79	896.83	612.99	0	50.2	0	100.44	0	0	1.25	0	461.1
Ambala	54	1245.26	1194.53	0	80.1	0	125.54	0	0	2.64	0	986.25
Kurukshetra	25	367.35	329.9	0	13.15	0	40.64	0	0	0.75	0	275.36
Gurgaon (S)	638	11890.25	11469.2	0	932.63	18.4	9899.57	85	0	317.1	0	216.5
Hisar	62	1439.23	1404.633	0	129.9	0	10.615	0	0	744.65	0	519.468
Fatehabad	5	22.53	17.355	0	16.055	0	0	0	0	0.5	0	0.8
Sirsa	18	54.68	42.85	0	5.785	0	2.96	0	0	1.3	0	32.805
Faridabad (BLB)	626	4635.81	4474.47	0	1482.9 5	0	1001.09	0	0	1021.24	0	969.19
Palwal	130	1064.19	1027.14	0	340.42	0	229.81	0	0	234.43	0	222.48
Jhajjar	167	3814.66	3801.5	0	726.54 8	2165.2	764.02	0	0	40.72	0	105.02
Rohtak	92	1961.416	1954.1	0	671.7	759.4	290.52	0	0	139.84	0	92.652
Total	3941	64896.63	58829.43 42	687.7 1	8308.1 88	4135.48	20459.66	5089.1	3566.25	7458.87 25	0	9124.18 25

Format-B for submission of Annual Inventory on Recycling/Utilization / Co-Processing of Hazardous Waste

Name of SPCB/PCC: Haryana State Pollution Control Board

Year:

2016-17

Sr. No.	Type of Recycling Facilities	No. of Facilities authorized for re-cycling/utilization/ Co-Processing of HW	Total Authorized Capacity (MTA)	Quantity Recycled/Utilized/Co-processed (MT)
A	Commonly Recyclable HW			
1	Brass Dross	2	7355	3008
2	Zinc Bearing Wastes	23	180087	112599
3	Copper Bearing Waste	3	38700	4608.81
4	Spent Catalyst Containing nickel, cadmium, Zinc, copper, arsenic waste including battery waste	1	2880	103
5	Lead bearing waste including battery waste	53	207822	104962.753
6	E-Waste	7	59685	2029.71
7	Paint and ink Sludge/residues	0	0	0
8	Used Oil	33	120082.50	48392.34
9	Waste Oil	2	7800.00	7800.00
	(Add new rows for other types of wastes)			
B	Utilization of HW under Rule 9			
1	Recovery of solvents from spent solvents		...Nil...	

2	Utilization of APCD Dust/Residue generated from LD Furnace/EAF/Blast Furnace for producing cold briquettes for use in Blast Furnace for Production of Pig Iron	...Nil...
3	Utilization of Spent Catalyst to recover Platinum, Iridium, Osmium, Palladium, Rhodium, Ruthium, Rhenium, Gold & Silver	...Nil...
4	Utilization of Spent H2SO4 generated from Pickling operations for manufacturing Ferrous Sulphate	...Nil...
5	Utilization of Spent Acid containing Molybdenum generated from filament industries for producing Molybdenum Trioxide by heating process	...Nil...
6	Utilization of Spent HCl generated from steel rolling mills for producing Ferric Chloride	...Nil...
7	Utilization of used Anode But to produce carbon pellets and High Energy (HE) Coke for use in Steel Furnaces/Foundaries	...Nil...
8	Utilization of Used Anode Butt to produce Carbon Blended Coke/Electrode Carbon Paste/Carburiser for use in Steel or Ferroalloy Furnaces	...Nil...

9	Utilization o Pre-processed Used Anode Butt to Produce Green Anodes through Anode-Baking process for use in Aluminium Smelters	...Nil...		
10	Utilization of Pre-processed used Anode Butt generated to produce Carbon Electrode Paste.	...Nil...		
11	Utilization of Coar Tar/ Tarry Residue generated from coal gasifier for energy recovery in sodium silicate industry.	...Nil...		
12	De-contamination of contaminated drums/containers/barreis.	2	115000	115000
13	Utilization of process sludge and primary ETP Sludge generated from Pulp & Paper Industries for producing Paper Board/Mill Board/Card Board	1	1440	1440
14	Captive Utilization of Aluminium Dross generated from refining and casting house of Aluminium smelter units to recover Aluminium Metal	...Nil...		
15	Utilization of Aluminium Dross generated from refining and casting house of Aluminium smelter units to recover Aluminium Metal	...Nil...		
16	Utilization of Oil based iron sludge of Ball & Roller bearings for producing Ferrous Sulphate	...Nil...		

17	Utilization of Mercury Waste generated from various industry for recovering Mercury	...Nil...		
18	Utilization o Spen H2SO4 generated from Dye and Dye intermediates to produce gypsum suitable for use in Cements Plants	...Nil...		
	(Add new rows for other types of wastes)			
C	Co-Processing in Cement Plants			
		...Nil...		

Format-C for Submission of the list of Authozied Recyclers/Utilizers/Co-processors of Hazarous Waste

Name of SPCB/PCC: Haryana State Pollution Control Board

Year: 2016-17

Sr. No.	Name and Address of the Facility	Type of Hazarous Waste Recycled	Authorized Recycling/ Utilization/ Co-processing Capacity (MTA)	Quantity Recycled/Utilized/ Co-processed (MT)
1	M/s Om Enterprises, B-9, Prem colony, Kundli	Lead acid battery plates	3000	242
2	M/s Rana Enterprises, VPO Firozpur Bangar, Tehsil Kharkhoda, Distt. Sonapat	Lead acid battery plates	9000	0
3	M/s V.B. Holding Pvt. Ltd., Khasra No. 23//21/2, Vill. Liwaspur, Sonapat	Lead Acid Battery Plates & other lead Scrap/ Residue	4200	4000
4	M/s D.B. Steel, Plot No. 408, HSIIDC, Barhi, Sonapat	Lead acid battery plates, lead scrap, lead ash etc.	14400	450
5	M/s Varun Enterprises (India), Prem Colony, Aggarwal Industrial Area, Kundli, Sonapat	Lead scrap/ lead acid battery plates	5000	248.5
6	M/s D.D Pigments, Kh.No.59/21, Vill age-Saidpur, Tehsil-Kharkhoda, Distt. Sonapat	Lead Ingots and Red Oxide Powder, Lead Scrap & Lead acid Battiers plates	2700	1000

7	M/s HVR Industries P. Ltd.,59/20, Vill.- Saidhpur, Teh.Kharkhoda, Sonapat.	Battery Scrap	10000	2000
8	M/s Reliance Lube Oils & Greases Corp., Piao- Maniyari, Narela Road, Kundli, Distt. Sonapat.	Used oil & waste oil	4224	20.91
9	M/s Shri Giri Raj Oil Co., Ferozpur Bangar, Teshil Kharkhoda, Distt. Sonapat.	Used oil & waste oil	6000	234
10	M/s Om Petro Fines, Pio-Maniyari, Kundli, Sonapat.	Used oil & waste oil	6000	0
11	M/s Divya Petro Product, Vill. Jat Joshi, Bahalgarh, Road, Sonipat	Used oil & waste oil	1000	25
12	M/s M.V.Recyclers India (P) Ltd., Plot No. 396,Sec-57, HSIIDC, Phase-IV, Kundli,Sonapat	Insulated Copper Wire Scrap or copper with PVC sheathing including ISRIcode material namely "Druid" and Jelly filled Copper cables	2880	103
13	M/s Shiv Shakti Enterprises, Plot No. 252,Phase-I, Barhi, Sonapat	Brass Dross, Copper Dross, Waste Copper & Copper Alloys,Zinc DrossBottom, Zinc Ash/skimming,Zinc Bearing waste	3600	50
14	Haryana Metal, Plot no. 32, HSIIDC, Hansi Road, Jind	Lead Acid Battery Scrap	900	800
15	Ridhi Sidhi Dhoop & Metal Industries, Plot No. 21, Jind	Lead Acid Battery Scrap	1200	1100
16	Jyoti Metals, Plot No. 65, HSIIDC, Jind	Lead Acid Battery Scrap	900	800
17	Guru Jyot metal, Plot No. 34, HSIIDC, Hansi Road, Jind	Lead Acid Battery Scrap	900	200

18	Relsons Engineers, 2 km Stone, Dhand Road, Kaithal	Lead Acid Battery Scrap	900	800
19	Luxmi Enterprises, Village Jui, Bhiwani	Used oil and waste oil	2500	2000
20	Guru Jyot metal, Plot No. 35, HSIIDC, Hansi Road, Jind	Lead Acid Battery Scrap	300	200
21	B.N. Concast P Ltd, 18, HSIIDC Complex, Barwala, Panchkula	used oil	3000	300
22	Mittal Battery, Plot NO. 349. IA, Phase-1, Panchkula	lead ingots, copper ingots	700	230.41
23	Cosmo Zincx Industries, #401, IA, Phase-1, Panchkula	zinc dross/ash/sceeming	3950	2345.8
24	Floorex Tiles, Plot No. 198, IA, Phase-1, Panchkula	zinc ingots	2880	911.036
25	Fertichem Enterprises Pvt. Ltd, 404, IA, Phase-2, Panchkula	zinc ingots, brass ingot	4500	570.41
26	Stalwart Alloys India Pvt. Industries, Vill. Yari, adwa Road, Sahabad Markanda, Kurukshetra	lead unit	10000	3508
27	Parul Foods Specialities P Ltd., 167KM Stone, GT Road, Khanpur Koilan, Kurukshetra	lead unit	7500	520
28	GDM Industry, Vill. Dukheri Road, Mohra, Ambala	lead unit	210	28.5
29	Shree ram Metals, Vill. Tabar, Panchkula	zinc scrap, aluminium scrap	5000	3600
30	S.S Batteries, Lead P. No. 150, HSIIDC, IE, Barwala, Panchkula.	Lead acid battery plated scrap, ashes/residues	240	Dismantled

31	GM Admixture, Plot No. 189, IA, Phase-I, Panchkula	zinc ash/skimming/dross	6000	5100
32	Cosmo Agromet Industry, P. Nio. 409, IA, Phase-I, Panchkula	zinc ash/skimming/dross and brass dross	10000	10000
33	Indian Petro Chemicals Village Sikri, Ballabgarh, Faridabad	Used Oil	3000	2945
34	Satyam Petrochemicals, Plot No. 5, Sector 4, Faridabad	Used Oil	360	349.5
35	E-Waste Solutions, Industrial Shed IA, Industrial Estate, Sec-6, Faridabad	E-Waste	1000	1000
36	Goel Oil Containers, Plot No. 745, Sector-58, Faridabad	Cleaning of Drums & Canes	60,000 Nos. /year	60,000 Nos. /year
37	Bharti Oil & Containers Co. 1B Sector-5 Northern India Compound , Faridabad	Cleaning of Drums & Canes	55,000 Nos./Year	55,000 Nos./Year
38	Bhagwati Industries, Plot No. 126, Sec 27, 28 Hisar	Lead Acid Battery Scrap	10200	10200
39	Chandigarh Chemicals, Jamalpur Road, Tohana	Zinc bearing waste	7500	7500
40	Grover Metal Industries, Alipur, Titukhera, Sirsa	Lead Acid Battery Scrap	1500	1500
41	Haryana Petro Oils, 31 Phase-III, Industrial Area, Sirsa	Used oil	1350	1350
42	Hindustan Metal, P. No. 209, Sec 27-28, Hisar	Lead Acid battery plates and other lead scrap/ashes/residues	30	30

43	Hinudstan Metal & Chemical, 9 K.M. Stone, Delhi Road, Hissar	Zinc Ash/Skimming/ other Zinc	2500	2500
44	Jainco Industries, Plot No. 203, Sec 27, 28, Hisar	Lead Acid Battery Scrap	700	700
45	K. P. Enterprises, P. No. 31, Sec 27-28, Hisar	Lead Acid battery plates and other lead scrap/ashes/residues	240	240
46	Mahesh Chemical & Allied Industries, 24 Industrial Area, Sirsa	Zinc bearing waste	4000	4000
47	National Chemical, Barwala Road, Talwandi Rana, Hisar	Used oil	2700	2700
48	Rajiv Metal opp. J.S. Industry, Barwala Road, Hansi, Hisar	Lead Acid Battery Scrap	900	900
49	Ridhiu Sidhi Alloys Pvt. Ltd. 103, Sec 28-A, Hisar	Zinc bearing waste	6000	6000
50	Sandley Chem. India Pvt. Ltd. 32 Udyog Nagar Hisar	Zinc bearing waste	3000	3000
51	Sandley Industries, 29 Udyog Nagar, Hisar	Zinc bearing waste	3000	3000
52	Shakti Industries, 9th KM Stone, Rajagarh Road, Tokas, Hisar	Zinc bearing waste	1700	1700
53	Shree Balaji Oil Industries, Vill. Nalwa, Hisar	Used Oil	1800	1800
54	Shri Krishna Alloy, Plot No. 223, Sec 27, 28, Hisar	Lead Acid Battery Scrap	2400	2400
55	Shri Ram Agro Chemical Pvt. Ltd. Simbol Road, Tohana	Zinc bearing waste	3600	3600

56	Singhal Industries, 78, Sec. 28, Hisar (HR).	Zinc Ash, Zinc Dross scrap Zinc Skimming .	1200	1200
57	Singla Metals, Plot No. 78, Sec 28, Hisar	Zinc bearing waste	3000	3000
58	Tirupati Chemical, Tosham Road, Village Kanwari, Hisar	Zinc bearing waste	1500	1500
59	3 R RECYCLER, Plot No. 266, Sector - 8, IMT Manesar, Gurgaon	E-Waste	1800	496.11
60	Deshwal Waste Management Pvt Ltd Plot No. 292, Sector-7, IMT Manesar, Gurgaon	E-Waste	1000	224.6
61	EARTH SENSE RECYCLE PVT LTD Plot No. 100, Sector - 5, IMT Manesar, Gurgaon	E-Waste	2160	180.7
62	Green Vortex Waste Management Pvt Ltd Plot No 177, Sector 7, IMT Manesar	E-Waste	1500	127
63	SMS ENTERPRISES, Plot No. 544- D, First Floor, Sector -37, Pace City - II, Gurgaon (Haryana)	E-Waste	47225	1.3
64	Abhishek Industries, P. No. 116-117, IDC, Distt. Rohtak.	lead bearing waste including battery waste	330	260
65	Baba Metal Company, Village Baland, Distt. Rohtak	lead bearing waste including battery waste	1200	745
66	Brown Inds. Vill-Khairpur, Distt. Jhajjar	lead bearing waste including battery waste	0	0

67	Chetna Enterprises, P. No. 119, IDC, Rohtak	lead bearing waste including battery waste	0	0
68	Hindustan Enterprises, Vill-Khairpur, Distt. Jhajjar	lead bearing waste including battery waste	0	0
69	Arora Enterprises, Plot No. 24, IDC, Rohtak	lead bearing waste including battery waste	2250	1260
70	Balaji Enterprises, P. No. 184, HSIIDC, Distt. Rohtak.	lead bearing waste including battery waste	1200	735
71	Bharat Chemical Industries, P. No. 25, IDC, Rohtak	lead bearing waste including battery waste	2500	130
72	Chirag Enterprises, Vill-Khairpur, Distt. Jhajjar	lead bearing waste including battery waste	5000	2600
73	Deep Metal, Vill-Baland, Distt. Rohtak	lead bearing waste including battery waste	1080	755
74	Durga Industries, P. No. 262, HSIIDC, Rohtak	lead bearing waste including battery waste	3000	1450
75	D.R. Industries, Jonti Road, Vill-Kanoda, Distt. Jhajjar.	lead bearing waste including battery waste	3120	200

76	Guru Nanak Enterprises, Singhpura Road, Distt. Rohtak	lead bearing waste including battery waste	1400	850
77	Giriraj Metal, P. No. 39, HSIIDC, Rohtak	lead bearing waste including battery waste	2500	1350
78	Kailash Industries, P. No. 152, HSIIDC, Kutana, Distt. Rohtak	lead bearing waste including battery waste	4416	200
79	Leading Metals (P) Ltd, P. No. 35, Sec-16, HSIIDC, Bahadurgarh	lead bearing waste including battery waste	14400	10050
80	Master Metal, Vill. Baland, Distt. Rohtak	lead bearing waste including battery waste	1800	930
81	Nav Durga, Plot No. 199, HSIIDC, Rohtak	lead bearing waste including battery waste	3000	1260
82	Odhav Met Trade (P) Ltd, Vill-Ismaila, Sampla, Distt. Rohtak.	lead bearing waste including battery waste	6000	3240
83	Om Hari Om Enterprises, Village Sidhipur, Distt. Jhajjar	lead bearing waste including battery waste	1950	750
84	Shri Ram Industries, P. No. 94, HSIIDC, Distt. Rohtak	lead bearing waste including battery waste	2400	1260

85	Shri Balaji Enterprises, Vill-Khairpur, Distt. Jhajjar	lead bearing waste including battery waste	3366	210
86	Shri Guru Nanak Auto Indl. Corpn., P. No. 169, IDC, Hissar Road, Distt. Rohtak	lead bearing waste including battery waste	1400	850
87	Sonu Metal, Vill. Baland, Distt. Rohtak.	lead bearing waste including battery waste	1080	750
88	Santosh Industry, P. No. 142, HSIIDC, Rohtak	lead bearing waste including battery waste	1050	720
89	Bhagwati Inds, P. No. 59, IDC, Hissar Road, Distt. Rohtak.	used oil	4800	3150
90	Bharat Oil & Grease Co. C-4/15, M.I.E., Bahadurgarh	used oil	2880	1625
91	G.S. Bharat Oil Refinery, P. No. 351 MIE-A, Bahadurgarh	used oil	3000	1700
92	Global Natural Petro Industries, D-R Road, Vill-Sankhol, Distt. Jhajjar.	used oil	4959	2250
93	Haryana Industrial Oil Co., Nazafgarh Road, Bahadurgarh.	used oil	3000	1240
94	Haryana Oil Processors, Sampla, Rohtak.	used oil	9000	2725
95	Mahavira Udyog, Bhiwani Road, Rohtak	used oil	5000	2125
96	Om Industries, VPO-Titoli, Rohtak.	used oil	3000	1800
97	Power Link Oil Refinery, P. No. 18, 19, 55 & 59, MIE-A, Bahadurgarh	used oil	3070.5	1700
98	Raghav Enterprises, P. No. 1379 & 1350, MIE, Bahadurgarh	used oil	6000	2700
99	Raj Transoils, P. No. 1744, MIE, Bahadurgarh	used oil	2100	810

100	Shiv Oil Refinery, Kharkhoda Road, VPO Kheri Sampla, Rohtak	used oil	4800	2210
101	Shiva Petroleum, Vill-Hassanagarh, Distt. Rohtak	used oil	1200	400
102	Shruti Petrochem Industries, Vill-Loharheri, Distt. Jhajjar.	used oil	5000	2435
103	Sumit Chemicals, P.No. 60, IDC, Rohtak.	used oil	5000	1800
104	Sunrise Industries, Vill-Rohad, Distt. Jhajjar.	used oil	10800	3500
105	Sunderam Industries, Vill-Naya Bans, Tehsil Sampla, Distt. Rohtak	used oil	5100	2150
106	Metal & Chemicals, MIE-B, Red Cross Road, Bahadurgarh	zinc	3000	1925
107	Sun Agrozinc (P) Ltd, P. No. 6, Ruhil Inds, Area, Vill-Kablana, Distt. Jhajjar.	zinc	3600	2025
108	Green World International (P) Ltd, Ganpati Dham, Bahadurgarh	E-Waste	5000	0
109	Diwakar Enterprises (P) Ltd., P No. 7, Sec-3, HSIIDC, Bawal, Rewari	Lead Scrap/Lead acid battery plates	12500	132.643
110	Punia Udyog, Delhi Road, rewari	Zinc Dross and ash	2697	895.29
111	M.K. Industries, Vill. Balana, Mohindergarh	used oil	2199	3.172
112	Rajdev Intertrade (P) Ltd., W-9, Industrial Area, Jagadhri, Yamuna Nagar	zinc ash/dross/skimming/residues	43200	43200
113	Shree Narayana Industry, Sahabad, Adoya Road, V.P.O. Thana Chhapar, Yamuna Nagar	Zinc	3560	3560
		Brass	3755	2958

114	Jai Hind Metal Industry, #1519, Near Kali Mandir, Old Chhachhrauli Road, Jagadhri	Zinc	38250	3472.4
		Copper	28350	2304
115	Shiv Metals, Gulab Nagar Chowk, Bilaspur Road, Jagadhri.	Zinc	12450	3472.4
		Copper	10150	2304
116	Upper India Smelting & Refinery Works, 11-E, Industrial Area, Yamuna Nagar	zinc ash/dross/skimming/residues	20000	14400
117	Ballarpur Industries Limited, Unit of Shree Gopal, Industrial Area, Yamuna Nagar	Utilization of process sludge	1440	1440
118	Carewell Lubricants Industry, Vill Sandhir, Nilokheri, Karnal.	used oil	1500	1500
119	Haryana Petro Chemicals, Village Sheikpura, Meerut Road Karnal	used oil	1200	1200
		waste oil	4200	4200
120	Universal Hydrolubes, Vill. Darar, Indri Road, Karnal	used oil	1440	1440
		waste oil	3600	3600
121	Quantech Metalloys Ltd., Panauli Road, Gharaunda, Karnal	Lead Scrap/ashes/residues	14400	14400
122	Vasu Alloys P. Ltd., Vill. Kunjpura, Distt. Karnal	Lead Scrap/ashes/residues	28000	28000
123	Friends Petro Chemicals & Allied Industries, Village Rare Kalan, Assandh Road, Panipat	Used Oil	3100	4.76
124	Shri Banke Bihari Metals, M-9, Industrial Area, Panipat	Lead Acid	900	177.581

Format-D for submission of Annual Returns of TSDF Operators

Haryana State Pollution Control Board

Year 2016-17

Sr. No.	Name and Address of the TSDF	Quantity in Stock at the beginning of the year (MT)		Quantity of Hazardous Waste Received (MT)			Quantity of Hazardous Waste Disposed (MT)						Quantity in Stock at the end of the year (MT)	
		Landfillable	Incinerable	Landfillable		Incinerable	Landfillable		Incinerable				Landfillable	Incinerable
				For Direct Landfill	For Lanfill after treatment		For Incineration	Quantity Landfilled directly	Quantity Landfilled after treatment	Quantity Incinerated	Moisture, Scrap Removed	Physical segregation of Organic & Inorganic		
1	Gujarat Enviro Protection & Infrastructure (Haryana) Pvt Ltd.	1.055	8336.9	7277.67	1030.515	20459.66	7277.673	1015.36	3930.209	9620.539	1160.554	9568.13	16.21	4517.14

