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**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

ORIGINAL APPLICATION NO. 101/2014

**IN THE MATTER OF:
SOBHA SINGH & ORS.**

APPLICANT

Vs.

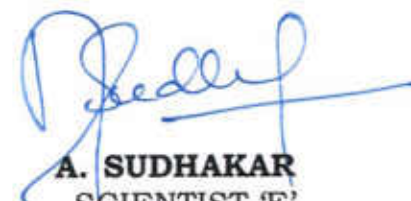
STATE OF PUNJAB & ORS.

RESPONDENTS

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CENTRAL POLLUTION CONTROL BOARD
PARIVESH BHAWAN, EAST ARJUN NAGAR
DELHI-110032.

Date: 30.10.2018

Place: Delhi

**Interim Report on
Compliance to Hon'ble National Green Tribunal
(NGT) Order dated 24.07.2018 in the matter of
Original Application No.101/2014 (Sobha Singh
& Ors. (Vs) State of Punjab & Ors)**

Submitted by

**Hon'ble National Green Tribunal
Monitoring Committee**

October 29, 2018

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**Interim Report of the Monitoring Committee
Constituted by Hon'ble National Green Tribunal (NGT)
vide Order dated 24.07.2018**

1. Introduction

The River Sutlej enters India near Mansarover and flows North Westwards. It crosses great Himalayan ranges on its way from the Shipkipass. It flows upto Gobind Sagar Lake over which Bhakra dam is constructed. About 14 Kms. downstream of Bhakra dam, Nangal head-works is constructed at Nangal. From here onwards, the river takes southern direction. After flowing for another about 50 kms, it enters the plains near Ropar. At Ropar, there is a Head-Works for canal system to provide irrigation to large parts of the state. The gradient in the plains is very gentle. The river flows slowly downstream head-works due to broad bed width and meager flow, its major part having been diverted to the irrigation canals. It finally reaches Harike where it meets river Beas. During the monsoon period, the areas on both sides of river are prone to floods. The river leaves Punjab plains near Ferozepur and enters Pakistan. The total length of river Sutlej in the state of Punjab is approximately 440 km. Average discharge of river Sutlej in the state of Punjab as measured at Ropar is approximately 500 m³/ sec. The total catchment area of river Sutlej in the state of Punjab is approximately 20303 Sq. km. Main cities and towns along the river are Nangal, Anandpur Sahib, Kiratpur Sahib, Ropar, Kurali, Machhiwara, Ludhiana, Phillaur, Phagwara, Jalandhar, Cantoment Jalandhar, Nawanshahar, Banga and Hoshiarpur.

Tributaries of River Sutlej are (i) Baspa River rises near the Indo-Tibetan border from Baspa Hills and joins Sutlej River from the left bank near Karcham; (ii) Spiti River originates from Kunzum range and Tegpo and Kabzian streams are its tributaries. Spiti river meets River Sutlej at Namgia in Kinnaur District traversing a length of about 150 km and (iii) River Beas rises in the Himalayas in central Himachal Pradesh flows for about 470 KM and confluence with the River Sutlej at Harike.

River Beas:-

The Beas River starts from the Beas Kund lake in Kullu Distt of Himachal Pardesh. After traversing through the District of Mandi and Kangra, it enters Punjab near Mukerian towards Pathankot. After meeting the Shivalik Hills in Hoshiarpur, the river sweeps sharply northward forming boundary between Hoshiarpur and Kangra District. After bending round the base of Shivalik Hills, it takes the southerly direction separating the district of Gurdaspur and Hoshiarpur. After touching the Jalandhar district for a short distance, the river forms the boundary between Amritsar and Kapurthala District. Finally the Beas joins the river Sutlej at the south western boundary of Kapurthala District of Punjab upstream of Harike Wetland. The right side bank of River Beas touches four Districts i.e Pathankot, Gurdaspur, Amritsar and Taran Taran whereas the left side

bank of river Beas touches District Hoshiarpur and Jalandhar originating from Talwara-Mukerian and flow through Jalandhar.

Figure 1 and **Figure 2** depicts the river Sutlej and its main tributaries.

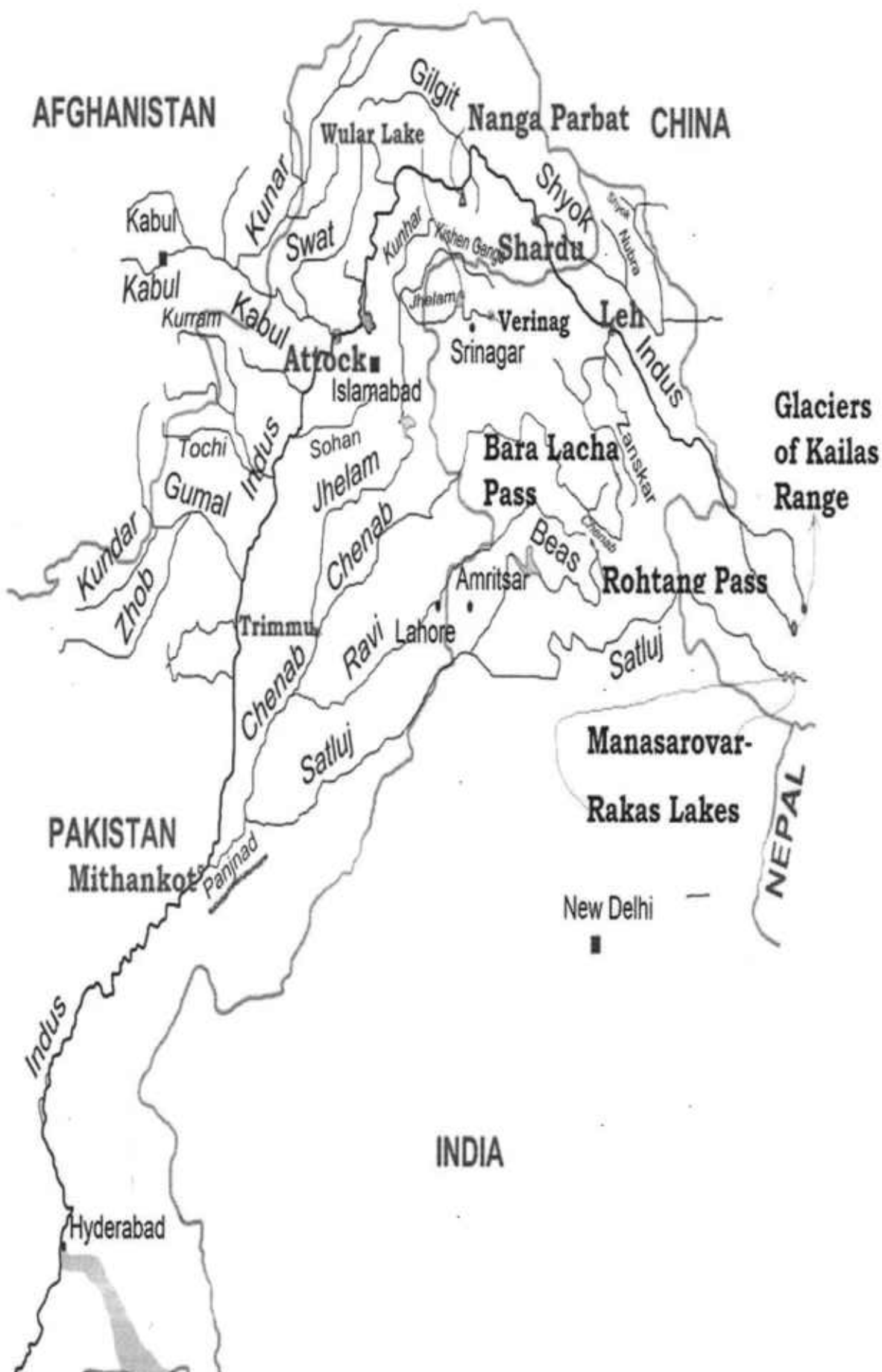


Figure 1. River Sutlej and its tributaries



Figure 2. Satellite imagery of Rivers Sutlej and Beas at Harike Barrage

2. Sources of Water Pollution

Mainly, major sources of pollution contributing to the pollution load in the river Sutlej and Beas are

- (i) Domestic Sources i.e., sewage, solid waste management etc.,
- (ii) Industrial Sources i.e., industrial effluent, industrial hazardous waste, waste from hospitals etc.,

2.1 Drains discharging wastewater into River Sutlej

Drains are the channels which are either man made or available in system naturally to carry storm water to its disposal point which can be either a river or a lake or sea. However, in the absence of sewerage systems or storm water drains, drains turn into open channels to carry storm water, sewage and untreated industrial effluent. There are two main major drains i.e. Budha Nallah and East Bein, which carry domestic as well as industrial effluents of Ludhiana, Jalandhar, Phagwara, Phillaur, Nawanshahar etc. and merge with river Sutlej at village Wallipur and near village Malsian, respectively. In addition to this, the sewage from STP Bhattian, Ludhiana is also discharged into river Sutlej through an independent carrying channel (about 3 Km) and meets river Sutlej near village Kasabad. Sewage of Phillour town is also discharged into river Sutlej through Theing drain, which falls directly into river Sutlej. The detail of each drain is as under:

(a) Budha Nallah:-The Buddha Nallah is a non-perennial natural drain of about 51Km length, which traverses about 14Km across Ludhiana city from East to West and finally meets river Sutlej near village Wallipur in district Ludhiana. The total waste water of Ludhiana city discharged into river Sutlej is estimated about 700 MLD which include industrial effluent. Budha Nallah receives untreated domestic effluent of Ludhiana city through 16 various disposal points and treated effluent of two STPs of capacity 152 MLD, 105 MLD installed at Balloke and one STP of 48 MLD

capacity installed at Jamalpur. In addition to this, the treated effluent from two STPs Bhattian of capacity 111MLD and 50MLD is also discharged directly into river Sutlej. Thus 234 MLD untreated waste water is discharged into river Sutlej from Ludhiana city.

(b) **East Bein:** -East Bein passes through Nawanshahar, Kapurthala and Jalandhar. It is a natural storm water drain which originates near village Bhairon Mazra, District Nawanshahar. After travelling through a length of around 40 Km, it passes through Jalandhar district near village Phadrana. As East Bein traverses through Jalandhar district, a number of drains fall into it. East Bein falls into river Sutlej at Village Mundi Kalan few kilometers upstream of Harike Lake. As per the information provided by PPCB, the details of drains /choes falling into East Bein are as under:

Nawashahar Municipal Drain:-This drain starts from Nawanshahar and joins East Bein after travelling about 1Kmf of distance. It carries treated domestic wastewater of Nawanshahar and treated trade effluent of M/s Nawashahar Co. Operative Sugar Mills, Nawashahar. A Sewage Treatment Plant (STP) of 6 MLD capacity based on SBR Technology has been installed to treat the domestic effluent of Nawashahar City.

Nariala Choe: -This Choe originates from Shivalik hills and carries rain water from its catchment area and joins East Bein. No Municipal Committee or industry discharges its wastewater into it.

Mehlawali Choe: This Choe originates from Shivalik hills and carries only storm water to East Bein.

Rajni Devi Choe: It also originates from Shivalik hills and carries only rain water to East Bein.

Pathlawa Drain : This drain originates from Banga area and carries only domestic wastewater of Banga

Nasrala Choe /Bhangi Choe: These Choes start from district Hoshiarpur and carry treated/untreated domestic wastewater of Hoshiarpur. This also carries the treated wastewater from the industries located in focal point and industrial area of Hoshiarpur and finally discharges into East Bein. A Sewage Treatment Plant (STP) of 30 MLD capacity based on MBBR Technology has been installed and commissioned to treat the domestic effluent of Hoshiarpur City.

Phagwara Drain: It carries only sewage/domestic wastewater of Phagwara and treated effluent of M/s JCT Limited, M/s Sukhjit Starch & Chemical Limited and M/s Wahid Sandhar Sugars Limited. The Municipal Council, Phagwara has installed Sewage Treatment Plant of 20 MLD capacity (North), 8 MLD (North) and 8 MLD (South). These STPs are in operation.

Cantt. Drain: It carries domestic wastewater /sewage of Jalandhar Cantt. which is treated in the STP installed by MES. No Industrial effluent is discharged into this drain.

Garha Drain: This drain carries only sewage /domestic wastewater of Jalandhar. Three Sewage Treatment Plants (STP) of 100 MLD, 25 MLD and 25 MLD capacity have been installed to treat their domestic waste water.

Kala Singhian Drain: It carries sewage of Jalandhar town and effluent of Leather Complex. At Basti Peer Dad, STP of capacity 50MLD has been installed and is in operation. For effluent of leather complex, Jalandhar, CETP of 5 MLD capacity is in operation. In addition to above, a part of sewage of Jalandhar town is also discharged into East Bein through drain near Cheheru. For this, STPs at Bhambiawali (10MLD) and Jaitewali (25MLD) have been installed and are in operation. Total 65 MLD untreated wastewater of Jalandhar town is discharged into River Sutlej through East Bein. All the outlets except Sabji Mandi outlet and Industrial area outlet have been closed.

Theing Drain :-It originates in Phillaur and falls into river Sutlej. It carries only domestic effluent of Phillaur city. Two sewage plants of capacity 2.5 MLD (North) and 3.0 MLD (South) have been installed and are in operation.

2.2 Sewage Management

It is estimated that about 1268 million litres per day (MLD) of domestic sewage is generated from 83 urban areas which are located in the catchment area of river Sutlej and Beas. Presently, the installed sewage treatment capacity is about 1054 MLD leaving a present gap of about 214 MLD. This Gap is expected to increase further due to rapid urbanization, improved living conditions, and economic development of the urban area/towns. With rapid expansion of cities and domestic water supply, quantity of wastewater is increasing in the same proportion. Sewage generation and existing sewage treatment capacity of the identified cities and towns along the polluted rivers Sutlej and Beas locations have been compiled and it is observed that there is a large gap with regard to the sewage generation and the existing infrastructure and the treated sewage is not used for beneficial purpose leading to treated/untreated and partially treated municipal wastewater is flowing into rivers Sutlej and Beas causing pollution in the downstream reaches. Urban area-wise details such as population, wastewater generation, No. of existing STPs, Installed Capacity of existing STPs, No. of STPs under commissioning, Capacities of STPs under commissioning and the proposed STPs and their treatment capacity are given in **Annexure-I**. River -wise, No. of towns, population, wastewater generation, No. of existing STPs, Installed Capacity of existing STPs, No. of STPs under commissioning, Capacities of STPs under commissioning and the proposed STPs and their treatment capacity is given in **Table 1** as given below.

Table 1. River –wise No. of towns, population, wastewater generation, No. of existing STPs, Installed Capacity of existing STPs, No. of STPs under commissioning, Capacities of STPs under commissioning and the proposed STPs and their treatment capacity.

Sl. No	Description	In the Catchment area of River Sutlej	In the Catchment area of River Beas	Total
	(1)	(2)	(3)	(4)
(1)	No. of Towns	64	19	83
(2)	Population	5570663	680513	6251176
	Waste water Generation (in MLD)	1191	77	1268
(3)	No of Existing STPs	52	9	61
(4)	Installed Capacity of existing STPs (in MLD)	980	74	1054
(5)	No STPs under commissioning	10	0	10
(6)	Capacity of under commissioning STPs (in MLD)	56	0	56
(7)	No STPs proposed	14	8	22
(8)	Capacity of Proposed STPs (in MLD)	262	20	282
(9)	Solid waste generated (in TPD)	2485	241	2726

A drainage map showing the STPs etc., is given in the **Figure 3**.

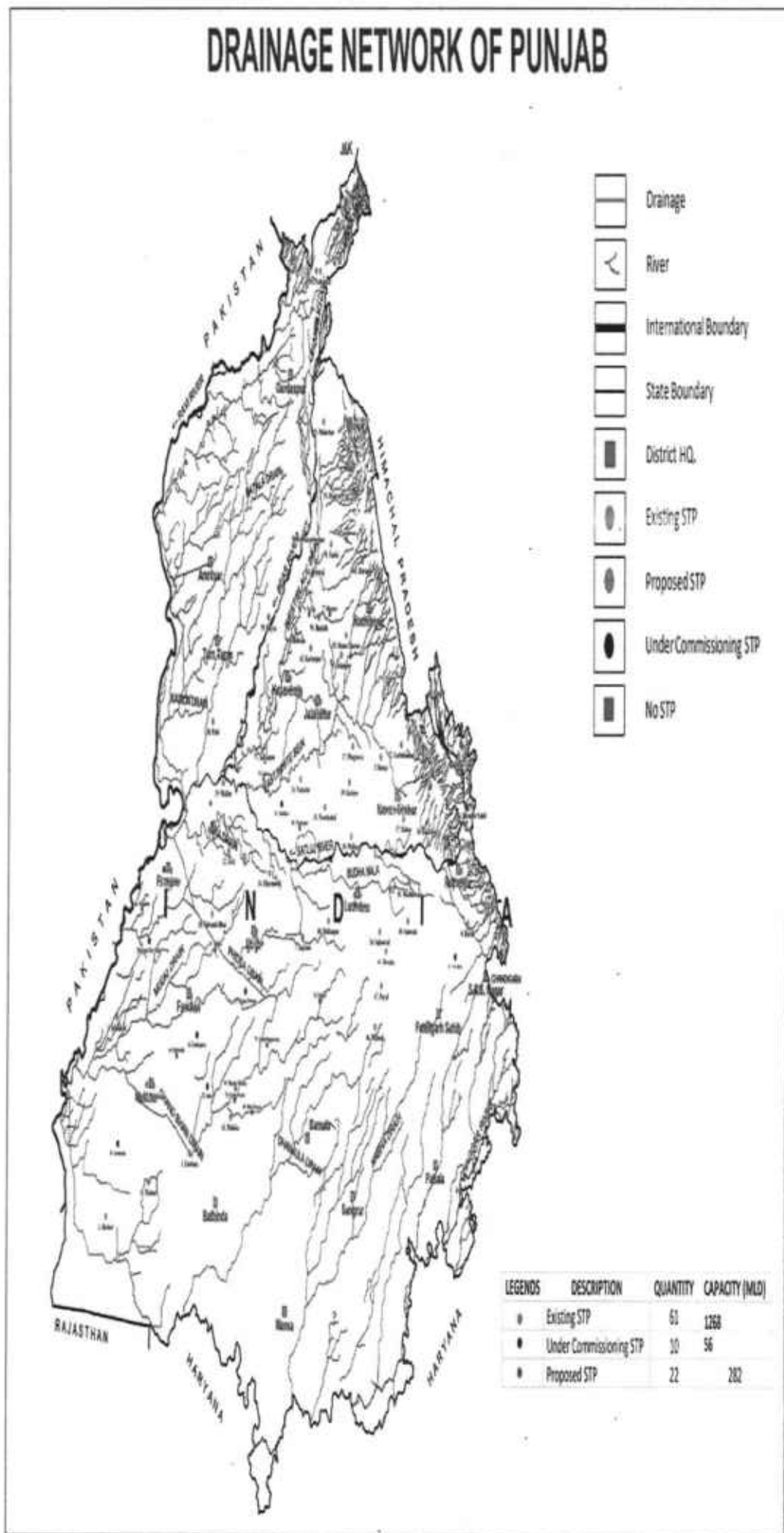


Figure 3 - A drainage map alongwith the location of STPs in the catchment areas of Rivers Sutlej and River Beas

There are issues with regard to regular operation of these STPs and compliance to discharge standards. The new standards for sewage treatment plants (with pH:6.5-9.0, BOD-10 mg/l, COD-50mg/l, Suspended Solids -10mg/l, Total Nitrogen – 10 mg/, Faecal Coliform 1000 MPN, NH₄-N: 5 mg/l, PO₄-P- 2 mg/l applicable after 13.10.2022) have been proposed with an objective to encourage use of treated water for non-potable domestic, commercial or industrial use as well as to provide better assimilating capacity to receiving water bodies. Limitations in managing the treatment of domestic sewage in the Punjab are attributed to:

- Lack of sewerage systems for collection and conveyance of sewage (at present, open storm water drains carry city/town sewage in most of the cities/towns located in the catchment areas of Rivers Sutlej and Beas).
- Non-availability of adequate capacity STPs and In-appropriate technology of STPs.
- Multiple agencies are involved and responsible for meeting the objectives.
- Presently, water is abstracted and supplied more than 300 lpcd which is more than the prescribed per capita water demand supply and leading to sewage generation more than the existing capacities of STPs.
- Poor financial health of urban local bodies (ULBs) is another major issue of concern. ULBs in Punjab are primarily dependent on government funds for implementing sewerage projects. Their own revenues from user charges as well as other local taxes are not even sufficient to recover O&M expenses.
- Non-prioritization of wastewater treatment (focus has been on supply of drinking water rather than wastewater treatment).
- Limitation of skilled manpower, technical know-how on operation and maintenance of existing STPs
- Non-sustainable approach in design of Sewage management projects.
- Water not considered as valuable resources and the concept of Reuse, Recycle & Recovery not implanted while designing the project

2.3 Sources of Industrial Water Pollution in the Catchment of River Sutlej:-

Following industrial sources were identified, which are located on the banks / catchment area of river Sutlej, as detailed in subsequent paras

2.3.1 Between River Sutlej Stretch- Nangal to Ropar

M/s National Fertilisers Limited, Nangal:-The industry is a fertilizer manufacturing unit and is discharging only cooling water at about 50.76 MLD into River Sutlej. It has adopted RLNG technology and has reduced its quantity of cooling water from 7000 to 3000 m³/day. The industry generates 1.58 MLD of trade effluent which after treatment is used for ash slurry making and presently no trade effluent is discharged into river Sutlej.

M/s Punjab Alkali and Chemicals Ltd., Naya Nangal: -The industry is Chlore- Alkali manufacturing unit and generates trade effluent at about 300 KLD. The low TDS effluent is treated biologically and is used for irrigation purposes in the industry's premises and presently no effluent is being discharged into River Sutlej.

M/s Guru Gobind Singh Super Thermal Plant (GGSSTP)/Ropar: - The industry is a thermal power plant and uses water at about 15250 MLD from Nangal Hydrel Channel. The water is discharged into river Sutlej after once through cooling process. The industry has installed an effluent treatment plant for treatment of wastewater generated from coal handling area and treated effluent is used for sprinkling /plantation. The industry has residential colonies also and the domestic wastewater is treated in three STPs. Two STPs (i.e., 2MLD and 0.6MLD) are in Nuhon Colony and one STP of 0.25 MLD capacity is in Power Colony Ropar. The treated wastewater from all these STPs is used for irrigation/plantation and no effluent is discharged into river Sutlej.

M/s Gujrat Ambuja Ltd., Village Daburji, Ropar: -M/s Gujrat Ambuja Limited is a cement manufacturing unit having captive power plant and a residential colony within the industrial complex. The industry is not using any water in the process. However, effluent is generated from utilities i.e. boiler blow down, cooling towers, back water of water softening plant and DM plant etc. The industry has installed ETP of capacity 650 m³/day along with two stage RO system. The RO permeate is used in the cooling tower as make up water and RO reject is taken to MEE. No effluent is discharged into river Sutlej.

2.3.2 Industrial Effluent from Ludhiana

In Ludhiana, there are mainly three type of industries i.e. Dyeing, Electroplating & wire drawing/pickling. Presently, 218 dyeing industries, 1253 electroplating industries, 512 wire drawing/pickling & 141 miscellaneous industries are operating within Ludhiana city. About 88 MLD treated waste water is being generated from the afore-said industries. 1253 electroplating and 512 wire drawing or pickling industries are disposing tier effluent thoruhg CETPs located at Ludhiana and Kohara, Ludhiana. 359 Inudstries which include 218 dyeing and 141 miscellanous industries are having captive ETPs. Information regarding industries contributing their effluent to rivers Sutlej, Beas directly or indirectly and the industries which are having captive ETPs with their compliance status in Ludhiana area given in **Annexure-II**

Small & Medium scale electroplating industries & pickling units using HCL are disposing their untreated trade effluent through CETP (based on ZLD technology) installed for these industries at Focal Point, Ludhiana and RO permeate and condensate of multiple effect evaporator (MEE) is supplied by CETP operator to the adjoining dyeing units. This CETP is also accepting and treating the waste water generated by electroplating industries situated in the other parts of State such as Amritsar, Jalandhar & Mohali etc. Small scale wire drawing/pickling industries using sulphuric acid (H_2SO_4) are providing their untreated trade effluent/spent acid to re-processing plant installed for these industries at Kohara, Ludhiana. Re-processing plant produces ferrous sulphate (Fe_2SO_4) as product & no trade effluent is discharged by the said plant as it is based on ZLD technology. There are 10 large and medium scale electroplating industries, all these units have adopted Zero Liquid Discharge (ZLD) Technology and no effluent from these industries is discharged into sewer leading to Budha Nallah. The recovered water from these industries is recycled back into the processes of the industries. Punjab Pollution Control Board (PPCB) regularly monitors these large scale electroplating industries to ensure that they operate their ETPs based on ZLD and no effluent is discharged into sewerage system leading to Budha Nallah. Remaining 87 MLD of treated waste water is being discharged into Municipal Sewer leading to Budha Nallah which ultimately joins river Sutlej.

Category-wise status of treatment and disposal arrangements made by the industrial units except units connected to CETPs in Ludhiana area is provided in **Annexure-III**

Effluent generated from dyeing industries:-All the dyeing industries situated in Ludhiana have installed their captive ETPs and treated trade effluent generated is being discharged into sewer. The Board is regularly monitoring these industries. All the dyeing units have installed captive ETPs and are achieving the existing effluent standards.

2.3.3 Industrial effluent from Jalandhar

(a) Electroplating industries:-In Jalandhar there are around 254 no. of electroplating industries. Presently these industries are disposing off their effluent to Common Effluent Treatment Plant at Focal Point, Phase-8 Ludhiana and no industrial effluent is discharged either into MC Sewer or drain leading to River Sutlej. However there is a future proposal to setup a Common Effluent Treatment Plant of capacity 150 KLD at plot no. E-41 to E-46, Focal Point Extension Jalandhar. Environmental Clearance has been granted vide No. SEIAA/2017/344 dated 24.04.2017. A Special Purpose Vehicle (SPV) under the name of Jalandhar Effluent Treatment Society (JETS) has been constituted. The Expression of Interest for the 150 KLD capacity CETP based on 'Zero Liquid Discharge' has been called.

(b) Dyeing industry:-Three dyeing unit in Focal Point, Jalandhar have installed Common Effluent Treatment Plant (CETP) of capacity 1 MLD for itself and its sister concerns. The treated effluent is discharged into sewerage system of Focal Point, Jalandhar maintained by PSIEC. Sewerage system of Focal Point leads to Kala Sanghian drain presently which

ultimately will be connected to STP Basti Peer Dad after the joining of main sewer line crossing the Jalandhar Ferozpur Railway line by PWSSB.

(j) Leather Complex, Kapurthala Road, Jalandhar:- There are 61 nos. tannery units operating in cluster at Leather Complex Kapurthala road, Jalandhar. For the treatment of effluent Common Effluent Treatment Plant of capacity 5 MLD has been installed at Leather Complex, Jalandhar by Punjab Effluent Treatment Society (PETS). Earlier, the discharge of Leather Complex was approx. 9.5 MLD. Due to more discharge of effluent 50% drum capacity of tannery units has been sealed to reduce the effluent to the capacity of CETP i.e. 5 MLD. The Punjab Pollution Control Board has increased strong vigil on the functioning of Common Effluent Treatment Plant (CETP). *The working of CETP is being monitored by Hon'ble Punjab & Haryana High Court Chandigarh in LPA no. 1924 of 2014. Hon'ble High Court has appointed Deputy Commissioner Jalandhar as Chairman of Interim Committee comprising of Superintending Engineer, Public Health Punjab posted at Jalandhar, Superintending Engineer, Punjab Water Supply & Sewerage Board at Jalandhar, Senior Scientist Central Leather Research Institute at Jalandhar, Officer not below the rank of account officer by Principal Secretary, Finance Department Govt. of Punjab. 3rd module of Common Effluent Treatment Plant for treatment of effluent of tannery units of Jalandhar of capacity 7.5 MLD is under proposal under smart city project of Jalandhar town.*

Apart from the above, there are about 43 miscellaneous Units which are having captive ETPs. Details of industrial effluent generated from Jalandhar area in respect of 46 Units which include 3 dyeing and 43 miscellaneous units in Jalandhar area is given in **Annexure- IV**. Category-wise status of treatment and disposal arrangements made by the industrial units located in Jalandhar area is provided in **Annexure-V**.

2.3.4 Effluent from Industries Located at Phagwara

There are 3 large scale industries situated at Phagwara which have installed the captive ETPs. The treated effluent from these units is discharged into public sewer leading to Phagwara drain ultimately joining river Sutlej via East Bein.

2.3.5 Effluent from industries Located at Phillaur

There are 26 tiny bag tanning units at Phillaur, which generate about 8 KLD of waste water. This waste water of their units is treated in the CETP installed at Phillaur and the treated waste water is discharged into Public sewer which ultimately leads to river Sutlej. There are 2 food processing units also which are having captive ETPs and discharge their treated effluent into public sewer leading to river Sutlej.

2.4 Sources of Industrial Water Pollution in the catchment of River Beas

As per the survey conducted by PPCB, following industrial sources were identified, which are located on the banks / catchment area of river Beas. The sources of industrial pollution in the catchment area of river Beas, are detailed below:-

2.4.1 M/s Pioneer Industries (Distilleries Division) and M/s Pioneer Industries (Gluten Division), Pathankot. The industry Viz., M/s Pioneer Industries (Distilleries Division), Pathankot has adopted ZLD technology and its gluten Division has installed effluent treatment plant and made arrangements to utilize treated effluent onto land for plantation. However, in this area, PSIEC Industrial Growth Centre has laid sewer and outfall of sewer into Nalwa Drain leading to River Chakki ultimately merging into River Beas.

2.4.2 M/s Indian Sucrose, Mukerian: The industry is a sugar mill at Mukerian has made arrangements to utilize industrial effluent onto land for plantation/irrigation through effluent treatment plant. There is no discharge of industrial effluent into river Beas.

2.4.3 M/s Chadha Sugar Ltd: Due to recent incidents of spillage of molasses in May 2018 the matter is now being monitored by National Green Tribunal (NGT) Team constituted in OA No 344/345 of 2018, vide order dated 04.09.2018

2.5 Solid Waste Management

The overall solid waste generation in these 83 towns falling under the catchment area of River Sutlej and Beas is 2726 Tonnes per day (TPD). Out of this, the urban area in the catchment of Sutlej River generates 2485 TPD. Highest among the Ludhiana where 1100 TPD solid waste is generated per day. Land for Common Sanitary Engineered Landfill Facility has been identified for Ludhiana, Jalandhar & Bhatinda Clusters. The urban area/town-wise solid waste generation and area available for landfill is given in the **Annexure-VI.**

With respect to solid waste management, it was observed that the waste is not properly handled and is dumped to open sites at different places in the urban area especially in and around Buddha Nalla in Ludhiana. As a result of such practices, area in and around the disposal sites is unhygienic and poses a serious threat to the environment and to public health. A large amount of solid waste, including banned thermocol (expanded polystyrene) items and poly bags, has choked the Buddha Nallah. Recently a new Punjab Solid Waste Management Policy- 2018 for the entire Punjab has been prepared and notified in compliance with Solid Waste Management Rules, 2016 and Hon'ble Supreme Court directions. Beside this, the National Green Tribunal (NGT) has constituted regional monitoring committees with defined timelines to ensure implementation of the Municipal Solid Waste Management Rules-2016. Action plans of each state will have to be submitted by the state by October 31, 2018 while its execution will have to be ensured by December 2019.

2.6 Management of Bio-Medical Waste

In the State of Punjab, there are around 7400 Healthcare Facilities (HCFs) including hospitals, nursing homes, clinics, veterinary polyclinics, dispensaries, laboratories etc. Presently, there are around 70000 beds in addition to diagnostic laboratories/non-bedded clinics etc. in the State. All

of them are disposing off their bio-medical waste through four authorized Common Bio-Medical Waste Treatment Facilities (CBWTFs) located at Ludhiana, SAS Nagar (Mohali), Amritsar and Pathankot. Further, 3 CBWTF operators have sent list of Healthcare Facilities (HCFs) which have not made agreement with them, which are given in the following table

Sl. No	Name of CBWTF Operator	No. of HCFs not having membership with the CBMWTF as per list
1	M/s Rainbow Environment Pvt. Ltd., Village Balyali, Mohali	130
2	M/s Medicare Environmental Management (P) Ltd., Opp. Central Jail, Ludhiana	231
3	M/s BMWT Trust, Vill. Pangoli, Defence Road, Distt. Pathankot	64

The lists of these HCFs which have not made agreement with CBWTF operator for collection, transportation, treatment and disposal of bio-medical waste have been sent to Regional offices of the Board for verifying the compliance status of the Bio-Medical Waste Management Rules, 2016. Further action against the violator HCFs will be initiated and completed within a period of 6 months. Further, two more CBMWTFs are being set up in the State in District Sri Muktsar Sahib and District Jalandhar. Also Expression of Interest (EOI) has been invited for setting up of 2 more facilities, one for Districts of Sangrur and Barnala and other for Districts of Hoshiarpur and Nawa Shahr.

2.7 Management of Hazardous Waste

As per discussions and decisions taken during the 3rd meeting of the monitoring committee held on 26-09-2018 at PPCB Office, Jalandhar, M/s Remky Enviro Engineers Limited, Nimbua was directed to provide the information regarding quantity to be hazardous waste generated as per authorization granted vis-à-vis actual quantity received by the facility during the period 01-01-2017 to 31-08-2018. *A glance of the information reveals that total 43626 MT of hazardous waste has been received by the facility during the last 20 months period against the anticipated generation of 47162 MT annually as per authorization granted by PPCB. As such, there is a gap of about 20453 MTA. This gap may be due to the reasons that actual operation and production capacities of the industry are generally below the installed/authorized capacities. However, this aspect will be looked into by the PPCB and appropriate corrective actions will be taken, whenever required.*

3. Hon'ble National Green Tribunal (NGT), Principal Bench, NewDelhi Orders on issues relating to River Sutlej and River Beas

Hon'ble NGT orders relating to rivers Sutlej and Beas are given in the subsequent paras

3.1 Original Application No. 101/2014 (Sobha Singh & Ors. Vs State of Punjab & Ors)

The Original Application No. 101/2014 (Sobha Singh & Ors. Vs State of Punjab & Ors) was filed in 2014 by the resident of Village Chhani Badi Tehsil Badra, District Hanumangarh, State of Rajasthan. According to the application, 8 Districts of Rajasthan are supplied water from Indira Gandhi Canal Project (IGNP) and people are suffering due to supply of contaminated water from Punjab.

Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi was of the opinion that the resume of the facts appearing in the inspection reports of CPCB and the steps taken by local bodies in Punjab State does not give a clear picture of the result achieved at the ground level with respect to control of pollution in River Sutlej and River Beas. Also, there is a need to upgrade STPs/CETPs in the catchment area of rivers Sutlej and Beas, apart from other challenges, therefore, Hon'ble National Green Tribunal (NGT) on 24.07.2018 passed directions which are reproduced as follows:-

- i) The Central Pollution Control Board may forthwith constitute a Monitoring Committee with the involvement of Mr. Balbir Singh Seechewal who has rendered remarkable voluntary service for creating awareness of checking pollution. The Representative of the CPCB will be the Nodal Officer and a representative of the Rajasthan Pollution Control Board may also be included in the Monitoring Committee. The Monitoring Committee must have one Engineer and one Scientist and also a Member of the Punjab Pollution Control Board and a Nominee of the Urban Development of the State of Punjab.
- ii) The Monitoring Committee must have first meeting latest by 10th August, 2018 and take stock of the action taken report so far. It may also prepare time bound Action Plan for handling the situation. Short term action plan may be for three months and longer plan may have three monthly targets.
- iii) Action Plan may be put on the website of the PPCB/CPCB enabling suggestions from stake holders and involvement of such volunteers as are considered relevant and genuine. Educational institutions may be encouraged to create awareness among children
- iv) The report of the Monitoring Committee may be filed by October 31, 2018 and registered as an independent application

A Copy of the Hon'ble National Green Tribunal (NGT) order dated 24.07.2018 is enclosed as **Annexure –VII.**

3.2 Original Application No. 344 of 2018 filed by Sukhpal Singh Khaira, MLA, Punjab Assembly & Ors. V/s UOI & Ors and in the matter of Original Application No. 345 of 2018 (M. A. No. 934 of 2018) Amber Sachdeva Vs. UOI & Ors

Hon'ble NGT passed an order on 04.09.2018 in the matter of Original Application No. 344 of 2018 filed by Sukhpal Singh Khaira, MLA, Punjab Assembly & Ors. V/s UOI & Ors and in the matter of Original Application No. 345 of 2018 (M. A. No. 934 of 2018) Amber Sachdeva Vs. UOI & Ors, and is reproduced as follows:-

"Let this matter be also referred to the Committee constituted with the aforesaid directions passed in O. A. NO. 101 of 2014 and list the same. The report of the Committee may be filed by October 31, 2018 and registered as an independent application". Thereafter this case be also listed along with O. A. NO. 101 of 2014 on 14-11-2018."

A copy of the Hon'ble NGT order dated 04.09.2018 passed in the afore-said matters are enclosed as **Annexure-VIII and Annexure -IX.**

3.3 Original Application No. 206 of 2016 filed by Capt. Hans Raj Singha Vs Union of India & Ors

Further, Hon'ble NGT passed an order on 05.10.2018 in the matter of Original Application No. 206 of 2016 filed by Capt. Hans Raj Singha Vs Union of India & Ors, which is reproduced as follows:-

'The matter related to illegal mining activities in Sutluj Flood Plain/River Basin. The larger bench of this Tribunal in O.A.No. 101 of 2014 has constituted a Committee with detailed terms of reference which includes illegal mining activities of the said river on 24th July 2018 and the said order has been reiterated in O.A No. 344 of 2018. Therefore, the Applicant to appear before the Committee and participate in their meetings for his redressal.'

A copy of the Hon'ble NGT Order dated 05.10.2018 is annexed (Annexure-X).

4. Initiatives taken by CPCB for ensuring compliance to the Hon'ble NGT Order dated 24.07.2018

4.1 Constitution of the Monitoring Committee

In pursuance to the Hon'ble NGT order dated 24.07.2018, Central Pollution Control Board has issued an Office Order dated 06.08.2018 regarding constitution of the Monitoring Committee comprising following members:-

- 1) Shri Balbir Singh Seechewal, Member
- 2) Dr. Vijay Singhal, CE, Representative of Rajasthan State Pollution Control Board (RSPCB). (Now Dr. Vijay Singhal replaced by Shri Niraj Mathur, Senior Environmental Engineer)
- 3) Member, Punjab Pollution Control Board

- 4) Shri A. S. Dhaliwal, Chief Engineer, Local Government-Nominee of Urban Development of the State of Punjab and
- 5) Shri J.ChandraBabu, Scientist 'D', WQM-I & Nodal Officer, CPCB

4.2 Organized four Monitoring Committee Meetings during August 10, 2018 to October 17, 2018

Central Pollution Control Board (CPCB) being nodal agency in the matter also organized meetings of the monitoring committee as detailed below:-

- First meeting of the Monitoring Committee was held on 10th August 2018 in CPCB, Delhi
- Second meeting of the Monitoring Committee was held on 06th September 2018 at Ludhiana
- Third meeting of the Monitoring Committee was held on 26th September 2018 at Jalandhar and
- Fourth meeting of the Monitoring Committee was held on 17th October 2018 in CPCB, Delhi.

Minutes of the meetings were also circulated to all the concerned departments of Punjab State Government to take necessary action at their end.

4.3 Organized Joint Monitoring and sampling of River Sutlej, River Beas, Major Drains and Ground Water in the Catchment area of River Sutlej and Beas during 07th -08th October, 2018

CPCB also organized joint monitoring of river Sutlej, River Beas, Major drains contributing to pollution load as well as ground water samples in the catchment area of Rivers Sutlej and Beas during October 07 to 08, 2018 by the team comprising

- 1) Shri Balbir Singh Seechewal, Member;
- 2) Officials of Rajasthan State Pollution Control Board (RSPCB);
- 3) Officials of Punjab Pollution Control Board (PPCB) and
- 4) Officials of Central Pollution Control Board (CPCB).

The details of sources of samples and the GPS location details of samples collected from the catchment areas of Rivers Sutlej, Beas during October 07=-8, 2018 are given in **Table-2** and Sampling locations details are given in **Table-3** below:-

Table 2. Details of Samples collected from Rivers Sutlej, Beas and drains as well as ground water from the catchment area of River Sutlej and Beas

Sampling Locations	Parameters	No. of Samples
River(9) /Canals(3)	General Parameters	12
	Ammonia	12
	Heavy Metals	12
	Bacteriological	12
	Pesticide	15
Major Drains (10)/ STP (1)	General Parameters	11
	Ammonia	11
	Heavy Metals	10
	Bacteriological	1
Ground Water (9)	General Parameters	9
	Heavy Metals	9
	Mercury	9
Total No. of Samples		123

Table 3. GPS Location Details of Samples collected from Rivers Sutlej, Beas and drains as well as ground water from the catchment area of River Sutlej and Beas during October 07-08, 2018

Sl. No	Location	Date of Sampling	Name of Water Body	Latitude	Longitude
1	River Sutlej A/c East Bein	07.10.2018	Sutlej	31.136700	75.105076
2	River Sutlej B/c East Bein	07.10.2018	Sutlej	31.127639	75.120127
3	River Beas B/c to Sutlej	07.10.2018	Beas	31.150770	74.951119
4	River Sutlej B/c Kasabad drain	08.10.2018	Sutlej	30.990884	75.841459
5	River Sutlej A/c Kasabad drain & B/c Buddha Nallah	08.10.2018	Sutlej	30.996731	75.788141
6	River Sutlej A/c Buddha Nallah	08.10.2018	Sutlej	30.964016	75.481496
7	River Beas A/c Kanhuwan Swan drain at Gandhowal	08.10.2018	Beas	31.69431	75.522780
8	Beas River at Mirthal Bridge, Bela Mastgarh, Punjab	08.10.2018	Beas	32.098149	75.611430
9	River Chakki at Pathankot	08.10.2018	Chakki	32.251233	75.657379
10	Ferozpur Canal at Harike	07.10.2018	Ferozpur Canal	31.126920	74.948540
11	Rajasthan Feeder Canal at Harike	07.10.2018	Rajasthan Feeder	31.126047	74.949742
12	Ravi Canal at Pathankot	08.10.2018	Ravi Canal	32.263295	75.621779
13	Kala Singhian Drain	07.10.2018	Kala Singhian	31.151369	75.346516
14	East Bein B/c Kala Singhian Drain	07.10.2018	East Bein	31.149770	75.346571
15	East Bein A/c Kala Singhaian Drain	07.10.2018	East Bein	31.134778	75.337781
16	East Bein at Chaheru Bridge	08.10.2018	East Bein	31.271086	75.690907
17	STP drain in Kasabad	08.10.2018	Kasabad drain	30.989811	75.833157
18	Buddha Nallah B/c River Sutlej at Walipur	08.10.2018	Buddha Nallah	30.972837	75.651173
19	Phagwara drain at Saprora	08.10.2018	Phagwara drain	31.258708	75.715573
20	Garha drain at Saprora	08.10.2018	Garha drain	31.231136	75.609353

21	Mukheria drain B/c River Beas at village Khichian	08.10.2018	Mukheria drain	31.950129	75.598604
22	Kanhuwan Swan drain at Bhait	08.10.2018	Kanhuwan Swan	31.759594	75.536893
32	Oxidation pond at Seechewal Village	07.10.2018	Seechewal STP	31.157953	75.305633
23	Hand Pump near Railway Bridge No 84	07.10.2018	Ground Water	31.138047	75.108542
24	Hand Pump in Village Mahle Wala	07.10.2018	Ground Water	31.124628	75.118977
25	Hand Pump between Ferozpur & Rajasthan Canal at Harike	07.10.2018	Ground Water	31.126773	74.948882
26	Submersible in Kasabad village	08.10.2018	Ground Water	30.978453	75.844854
27	Hand Pump in ShanidevTample near Phillaur Toll, Talwandi Kalan	08.10.2018	Ground Water	30.996905	75.788082
28	Hand Pump in Village Walipur	08.10.2018	Ground Water	30.970153	75.623144
29	Hand Pump in Village Khurshedpur	08.10.2018	Ground Water	30.955507	75.481261
30	Hand pump at Parthapura Road, JhamsherKhas, Saprai, Punjab	08.10.2018	Ground Water	31.231457	75.611417
31	Hand Pump in Bhait village	08.10.2018	Ground Water	31.759061	75.53188

The river water samples are being analysed for the parameters such as pH, DO, Conductivity, TDS, COD, BOD, Chloride, Total Alkalinity, Total Hardness, Calcium, Magnesium, Nitrate-N, Nitrite-N, Ammonia, Phosphate, Fecal Coliform, Total Coliform, Arsenic, Cadmium, Copper, Lead, Chromium (Total), Nickel, Zinc, Iron (Total), α , β , γ BHC, OP DDT, PP DDT, Alpha Endosulphan, Beta Endosulphan, Aldrin, Dieldrin, 2-4 D, Malathian, Methyl Parathian, Anilophos, Chloropyriphos.

Ground Water samples are being analysed for the general parameters such as Sulphate, Fluoride and heavy metals such as Arsenic, Cadmium, Copper, Lead, Chromium (Total), Nickel, Zinc and Iron (Total) whereas the Drain samples collected are being analysed for the general parameters such as pH, Conductivity, TDS, COD, BOD, TSS, Ammonia and Phosphate as well as heavy metals such as Arsenic, Cadmium, Copper, Lead, Chromium (Total), Nickel, Zinc and Iron (Total)

The location details of surface water, drain samples and ground water samples collected during October 07-08, 2018 are given in **Figure 4 to Figure 6.**

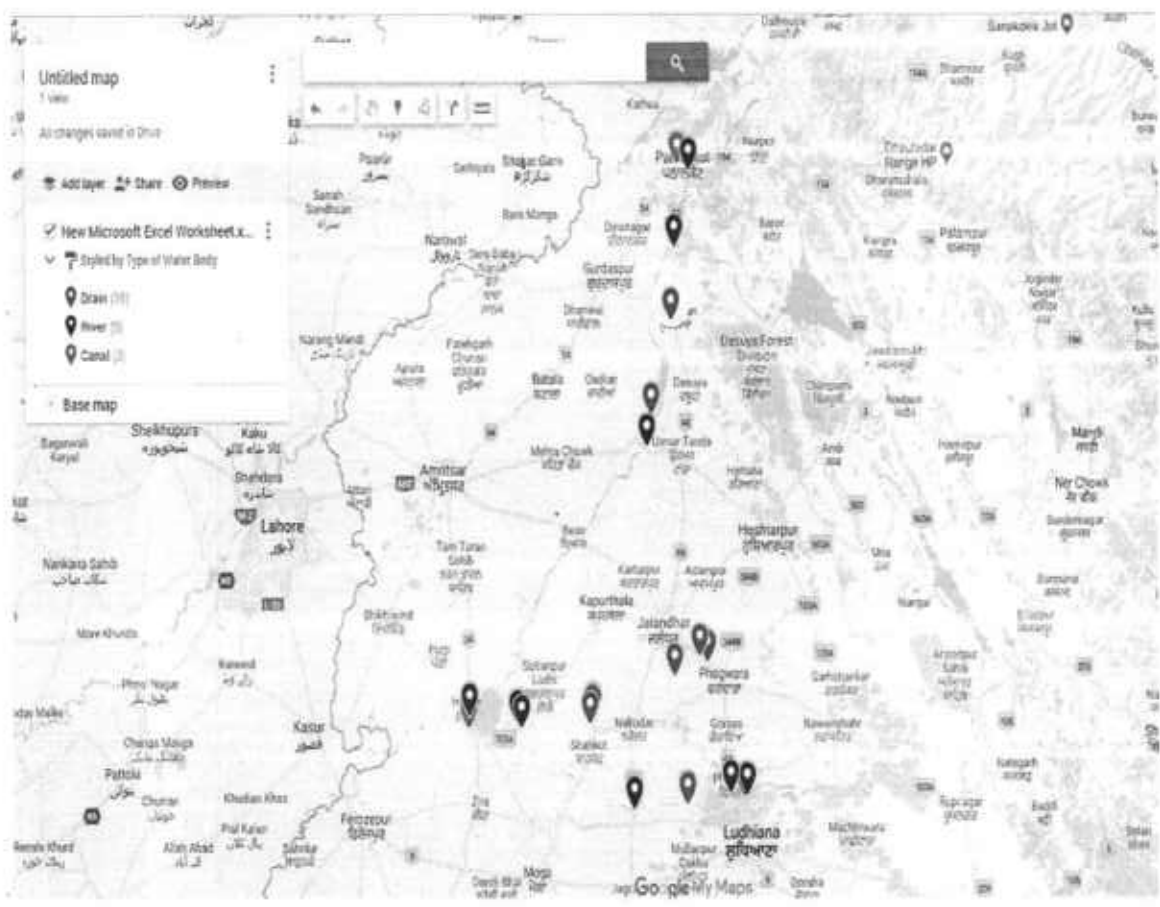


Figure 4. River Sutlej, River Beas & Drains sampling locations

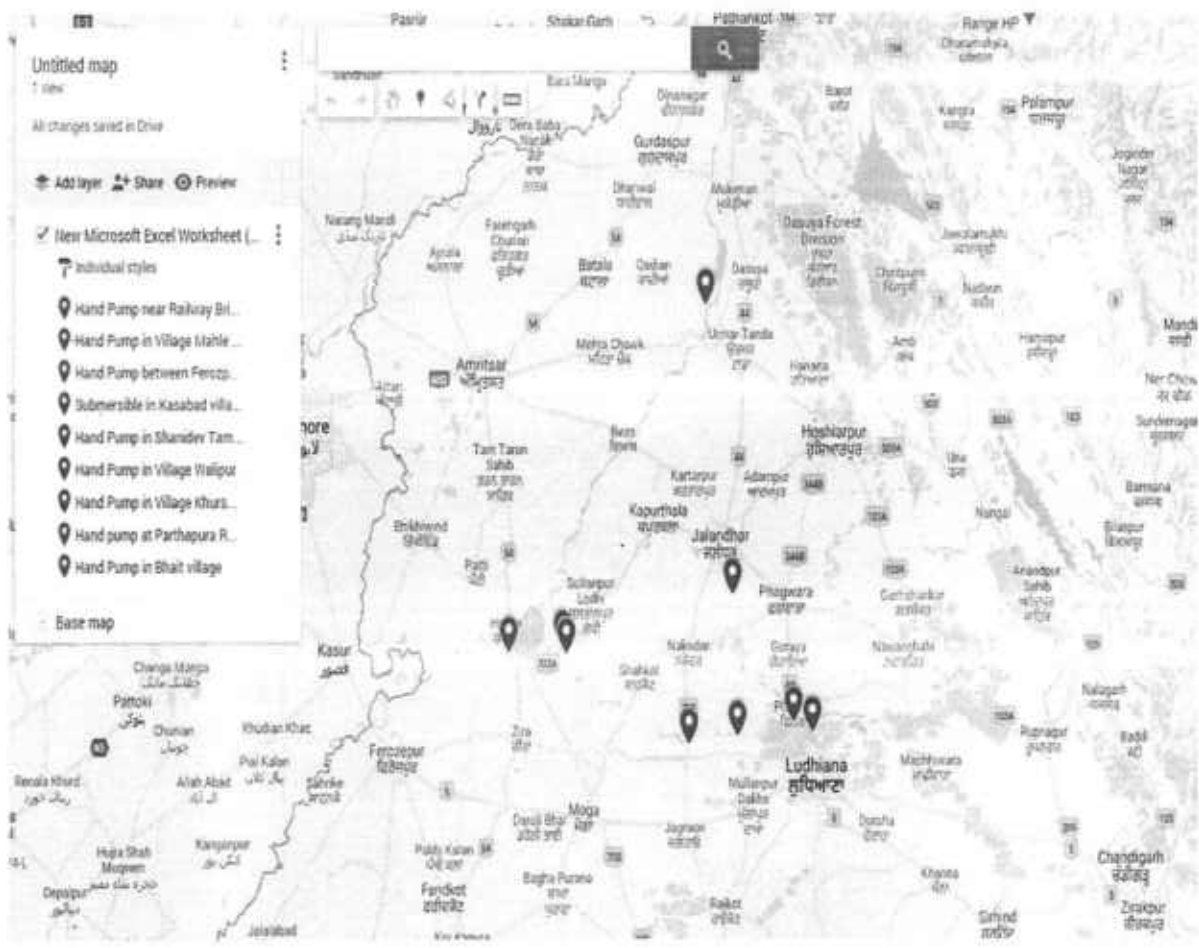


Figure 5. Ground water sampling locations

Locations Monitored on River Sutlej, Beas and Major Drains in Punjab

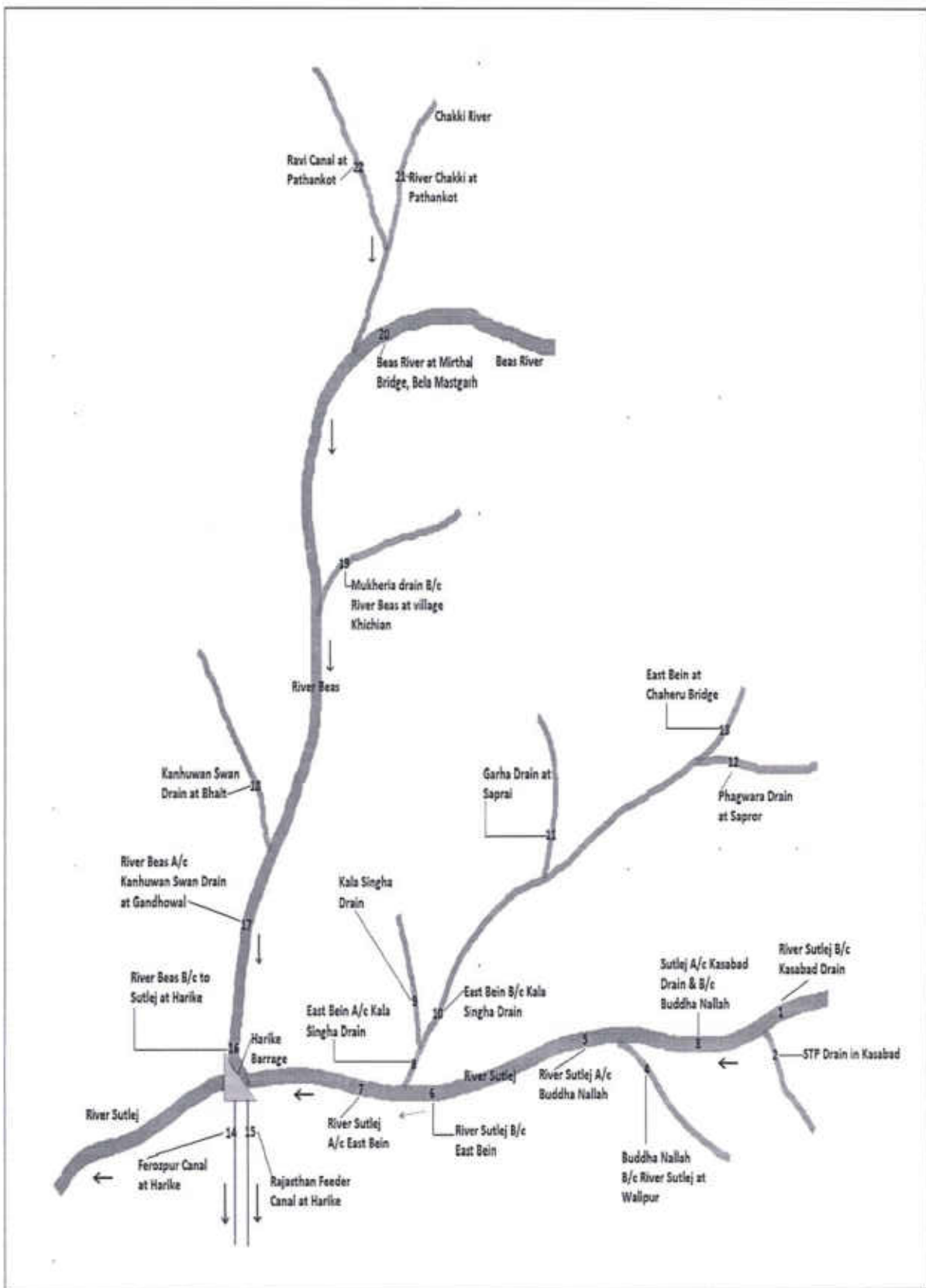


Figure 6. Line Diagram Showing River Sutlej, River Beas and Drain Sampling Locations

The samples details as indicated in the **Table 3** are presently under analysis in CPCB laboratories and results are expected results within a month.

4.4 Uploading of information on compliance relating to the Hon'ble NGT directions dated 24.07.2018

Following information were uploaded in CPCB website (<http://cpcb.nic.in/ngt-committee/>) as detailed below:-

4.4.1 Hon'ble NGT Orders

- a) Details such as Hon'ble National Green Tribunal Orders dated 24.07.2018 (Issues relating to control of pollution from Buddha Nallah, East Bein and other drains into River Sutlej and also restoration of River Sutlej),
- b) Hon'ble NGT Order dated 04.09.2018 relating to restoration of river Beas in view of discharge of molasses from a sugar industry located nearby.
- c) Hon'ble NGT Order dated 05.10.2018 on the issue relating to illegal sand mining in River Sutlej in Himachal Pradesh.

4.4.2 Composition of the Monitoring Committee

Details of composition of the Monitoring Committee constituted in compliance to the Hon'ble NGT order dated 24.07.2018 vide CPCB office order dated 06.08.2018.

4.4.3 Minutes of Meetings of the Monitoring Committee

Minutes of four meetings of the Monitoring Committee with the concerned officials of Punjab State Government held during August 10 to October 17, 2018.

4.4.4. Actions taken by the Monitoring Committee

Draft Action Plans proposed by the officials of the Punjab State Government as a part of rejuvenation of river Sutlej

5.0. Initiatives of Monitoring Committee for ensuring compliance to the Hon'ble National Green Tribunal order dated 24.07.2018

Initiatives taken by the monitoring committee for ensuring compliance to the Hon'ble NGT Order dated 24.07.2018 in the matter of OA No. 101/2014 (SobhaSingh&Ors. Vs StateofPunjab&Ors) are detailed below:-

5.1. Meetings held with the officials of Punjab State Government

Although the Monitoring Committee had discussions with the

concerned Punjab State Governments authorities, the response from authorities is poor till first two meetings. Most of the authorities have attended the third and fourth meetings of the authorities. The monitoring committee as well as the nodal officer of CPCB has guided the authorities for preparation of the action plans by conducting the assessment w.r.to the existing scenario, gaps identification, to prepare action plans with time lines for ensuring proper management of industrial pollution control, sewage management in rural and urban areas, waste management in an environmentally sound manner which include hazardous waste, municipal solid waste, bio-medical waste, e-waste, C & D waste so that no waste will become a part of the river bodies. Meeting-wise main decisions taken by the monitoring committee in its four meetings are given in the subsequent paras:-

(a) First meeting of Monitoring Committee (MC) held at CPCB, Delhi on 10.08.2018

- i) Strict actions including prosecutions to be taken against violating industries as well as defaulting municipalities.
- ii) Professional companies should be roped in for O & M of STPs & CETPs
- iii) Raw effluent to CETP should pass through only closed conduit pipes and all member units of CETPs should be connected through SCADA to monitor the quality of discharged industrial effluent.
- iv) Providing information relating to area-wise: Towns/cities, population, sector-wise no. of industries, Sewage generation, Industrial effluents generation, existing Infrastructure for e management, gap analysis i.e., additional infrastructure required, action plans with time lines for sewage and Industrial effluent management.
- v) Performance assessment of STPs, CETPs and captive ETPs.
- vi) Waste generation, Collection, Treatment and Disposal as per provisions.
- vii) Assessment of Water Quality of River Sutlej at all salient points and also drains contributing to pollution load.
- viii) Information relating to Non-Complying Industries, Industries not having valid Consent, Industries not installed OCEMS, Industries not a member of CETP and indulged in discharge of effluents in River Sutlej

b) Second meeting of Monitoring Committee (MC) held at PPCB, Ludhiana, on 06.09.2018

- i) Sub-committee members shall plan for collection of samples

from (a) major drains contributing pollution load, (b) river Sutlej and River Beas at all salient points in September 2019.

- ii) Sub-Committee (members from Local & Urban Development) to pursue with all the concerned Departments for preparation and submission of action plans.
- iii) Review of Providing information relating to area-wise: Sewage and industrial effluent management, gaps observed, additional infrastructure required, action plans with time lines for sewage and Industrial effluent management; Performance assessment of STPs, CETPs and captive ETPs.
- iv) Waste Generation, Collection, Treatment and Disposal related aspects.
- v) Digital maps pertaining to river Sutlej & River Beas showing area-wise industrial effluent, sewage management including gaps.
- vi) To submit action plans with time lines in compliance to the Hon'ble NGT Orders dated 24th July , 2018 etc.,

c) *Third meeting of Monitoring Committee held at PPCB, Jalandhar, Punjab on 26.09.2018*

- i) Recommendations of PPCB Committees on restoration of River Beas due to discharge of molasses, to be finalised within a month and also to present recommendation in the next MC meeting.
- ii) All the concerned Departments shall provide information – Name of Head of the Department as well Nodal Officers
- iii) Detailed reports of STPs visited jointly by Shri.Balbir Singh Seechewal, Member and PPCB along with collected treated sewage analysis results as well as random inspections of 10 STPs located in catchment of river Sutlej & River Beas to be submitted within three weeks.
- iv) PPCB shall collect sample of STPs sludge and get analysed and obtain the views of Punjab Agriculture Department on final mode of disposal.
- v) Concerned Departments shall ensure proper O & M of STPs.
- vi) Concerned Departments shall provide information on ground water quality being supplied to the public for drinking water purposes.
- vii) Health Department shall submit report on health survey in the catchment of River Sutlej and mainly in Buddha Nallah drainage areas.

viii) All the STPs shall install COEMS at the outlet of STPs and also to install electromagnetic flow meters at all salient points in STPs.

d) *Fourth meeting of the Monitoring Committee held on 17.10.2018 at CPCB:-*

- i) The time span proposed for establishing new STPs and maintaining the old ones is too long. The proposed time lines should be shortest as possible and the fixed timelines should be strictly ensured by the concerned departments.
- ii) STP's which have already been installed at different places in Punjab are neither working properly or nor operating at all. As a result, the sewage of towns and Cities is not treated at all or partially treated and are flowing directly into natural water resources. Therefore, it was suggested PPCB to constitute a Task Force comprising officials from different departments for carrying out surprise inspections.
- iii) All the STPs should have a laboratory facility for analysis of STP treated effluent for routine parameters as prescribed by the PPCB under Consent and all other parameters may be get analysed through Punjab State Water Testing Laboratory as per the frequency prescribed by PPCB.
- iv) The capacity of the STP's for an area should be in line with the actual flow of sewage outfalls into the river bodies.
- v) Presently water is abstracted and supplied more than 300 lpcd which is more than the prescribed per capita water demand and leading to sewage generation more than the existing capacities of STPs. Therefore, Government of Punjab should take a policy decision with regard to the supply of water to the public as per the demand or supply prescribed under the guidelines issued by Ministry of Urban Development.
- vi) Drains carrying sewage generated from the towns and cities located in the catchment of river Sutlej and river Beas should be stopped by having properly designed sewerage network connectivity to the existing STPs, for ensuring treatment of generated sewage to comply with the discharge norms and thereafter only such treated sewage may be discharged into drains.
- vii) All the treated sewage complying to the discharge norms may be encouraged to use for beneficial purposes which include agriculture, construction activity and green development. Therefore, action plans also be included from utilisation of treated sewage point of view.
- viii) For ensuring compliance to the effluent discharge norms notified under the Environment (Protection) Act, 1986, all the outlet of STPs also be connected with continuous online effluent monitoring system with a provisions of CC Cameras and real time data also be

transferred to the servers of CPCB and PPCB within next three months.

- ix) Sludge generated from STPs is required to be pre-treated for using it as manure. Therefore, all STPs may include a provision of Sludge Digester as a part of STP or a Common sludge digester for methane recovery and such generated sludge from the sludge digester may be used as manure.
- x) Presently, all the STPs are not having standby arrangements in STPs and during maintenance; STPs are indulged in bye-passing untreated sewage into the nearby drains. Therefore, all the STPs should take prior permission from PPCB for carrying out any maintenance. Also, all STPs should have adequate capacity of holding tank (s) or standby arrangements for storage of untreated sewage during maintenance or shut down if any. All upcoming STPs also should have the above provisions.
- xi) Any STP indulged in Bye-passing of untreated sewage, action against concerned officers should be taken by PPCB which include levying of fine under E (P) Act, 1986.
- xii) All STPs should have a provision of uninterrupted power supply or DG Set of adequate capacity for ensuring proper treatment of sewage during power failures.
- xiii) Training component of all the officials i.e., O & M Staff, field staff or supervisors of the concerned departments involved in operation of the STPs should also be included in the action plans.
- xiv) In rural areas, feasibility of using constructed wet lands or treatment of sewage should be examined by the Water Supply and Sanitation Department.
- xv) Industrial effluents of the cities or towns should not be allowed to mix up with the domestic sewage. In the industrial cities like Ludhiana, Jalandhar, and Amritsar where industrial effluents have been allowed to mix with domestic sewage, the whole machinery of STP's has been damaged decreasing their working capacity. Therefore, dedicate sewerage network for carrying industrial effluent should be laid for which action plans should be included by all the concerned departments.
- xvi) Presently, STPs are under the control of the different organisations and different organisations are planning in their own way and there is no proper co-ordination. Therefore, Punjab Government should bring all the STPs under one authority so that it becomes easy for planning, commissioning and for ensuring proper operation and maintenance of the existing or upcoming STPs.
- xvii) The sewage pipeline which was laid in 2014 along Kala Sanghian Drain in Jalandhar has not been linked across Jalandhar-Kapurthala railway line near D.A.V. College. The whole sewage water of

upstream area goes direct into Kala Sanghian Drain which flows into Sutlej. Necessary remedial measures be taken by the concerned authorities.

- xviii) Entire house keeping of Leather complex is very poor. CETP of Leather Complex outlet effluent is also further contaminating Kala Singhian Drain apart from discharge of untreated sewage. Therefore, all the STPs and CETPs should be connected with the real time effluent monitoring systems with CC camera provision and the real time data needs to be transferred to the servers of PPCB and CPCB by all the STPs and CETPs.
- xix) Industries of Focal Point and Surgical Complex do not have any CETP. Industrial effluents of Focal Point at present flow directly into Kala Singhian Drain and those of Surgical Complex flow into domestic sewerage system which affects it adversely. Necessary measures to be taken by the concerned authorities.
- xx) In every industrial area, CETP of suitable capacity and based on state-of-the-technology should be established at the earliest possible as a part of rejuvenation of river Sutlej and River Beas with the financial support of State Government as well as contribution by all the concerned industry.
- xxi) Sewage water of eastern side of Jalandhar is directly flowing into Garha Drain. The dairies along its banks also discharge their cow dung into it leading to faecal contamination of river Sutlej. There is a need for construction of a Bio-gas plant.
- xxii) The STP for private colonies opposite of RCF (Kapurthala), which was sanctioned, has not yet been installed and their sewage water is directly flowing into the Holy Kali Bein and contaminating it. Early progress with regard to the commissioning of STP should be ensured by the concerned authorities.
- xxiii) Irrigation pipeline of SultanpurLodhi has been established and is being maintained by us. But at all other places no government department is willing to take this responsibility. This responsibility should be given to suitable department to ensure the success of the system.
- xxiv) There is no PETP Standards prescribed by PPCB for the industries discharging their effluent through CETP. Therefore, PPCB is required to prescribe PETP Standards for all the CETPs in Punjab.
- xxv) All the member industries of CETPs should be directed to have a flow measuring devices at all the outlet of the individual industries and records should be maintained with regard to the total wastewater generated from each industry.
- xxvi) PPCB is required to carry out sampling and monitoring of river Sutlej and river Beas on monthly basis and analysis results also be submitted to Nodal Officer of CPCB .

- xxvii) Health Department should carryout preliminary health survey in all the villages located surrounding areas of major drains (Budha Nallah, East Bein, Kala Singhian) carrying sewage and contributing to the pollution load in river Sutlej and River Beas and a report be prepared and submitted with action plans, within two months. Health Department also suggested conducting health camps in the afore-said areas periodically. Health Department and PPCB shall also direct private hospitals associations to organise such health camps periodically on voluntary basis in the afore-said areas.
- xxviii) It was also decided that the monitoring committee may meet at RO, PPCB, Ludhiana on 26.10.2018 at 2 PM for finalisation and approval of the interim report by all the members and same may be ensured for its filing in Hon'ble NGT on or before 31.10.2018.

The minutes of four meetings of the monitoring committee are annexed (**Annexure-XI, Annexure-XII, Annexure-XIII and Annexure-IX**)

5.2 Inspections of 43 STPs located in the catchment of river Sutlej and River Beas located in Punjab State.

As a follow-up of the decisions taken in first meeting of the monitoring committee, Shri.Balbir Singh Seechewal, Member of the Committee and Member, Punjab Pollution Control Board along with concerned regional offices of Punjab Pollution Control conducted a survey of 43 out of 63 Sewage Treatment Plants (STPs) located in the catchment areas of the Rivers Sutlej and River Beas in Punjab State in August 2018. It appears that about Rs. 1200-1300 Cr. were spent in commissioning of STPs by the Punjab State Govt.

Detailed visit reports of 43 STPs and the photographs taken during the visits to STPs located in catchment area of Rivers Sutlej and Beas are enclosed as **Annexure-XV**. Main observations made on STPs by the Monitoring Committee are

- a. Samples were collected from 34 out of 43 STPs inspected by the Committee.
- b. 01 out of 43 STPs is having valid Consent.
- c. 17 out of 43 STPs are bye-passing the sewage without imparting any treatment
- d. 26 STPs have installed flow meters at the inlet and only 12 out of 43 STPs have installed flow meters at the outlet.
- e. Out of 34 samples, 33 are not complying with the sewage discharge norms.

- f. 39 STPs are discharging their effluent either in rivers or drains and 3 STPs are using for onland irrigation. 01 STP gate found locked during the visit.
- g. Most of the STPs located at Bhattian, Jamalpur, BastiPirdaad, Phillaur, Ropar Waddi, MaujewalNangal, Makhueither lying defunct or the effluent was being bye-passed (STPs at Jagraon, Balloki, NakodarPhillaur, Moga, Anandpur Sahib, Kapurthala, Phagwara etc.,) without imparting any treatment for the generated sewage. At some STPs, operators were not present.
- h. Some STPs were not in operation as no power backup was provided.
- i. It was also seen that where DG sets are available, diesel oil was not available to run the DG sets.
- j. All the STPs (except 25 MLD STP Jaitewali, Jalandhar) are not handling the generated sludge in accordance with the law of the land.
- k. Chlorination is not practiced before discharge of treated sewage into nearby drain or any water body.

5.3 Visit to CETPs and one STP made by the Monitoring Committee

Monitoring Committee also inspected two CETPs located at Jalandhar and Ludhiana on 26.09.2018 and 06.10.2018 respectively. CETP-wise observations made are as follows:-

5.3.1 Visit to CETP at Leather Complex, Jalandhar and one STP adjacent to Leather Complex, Jalandhar

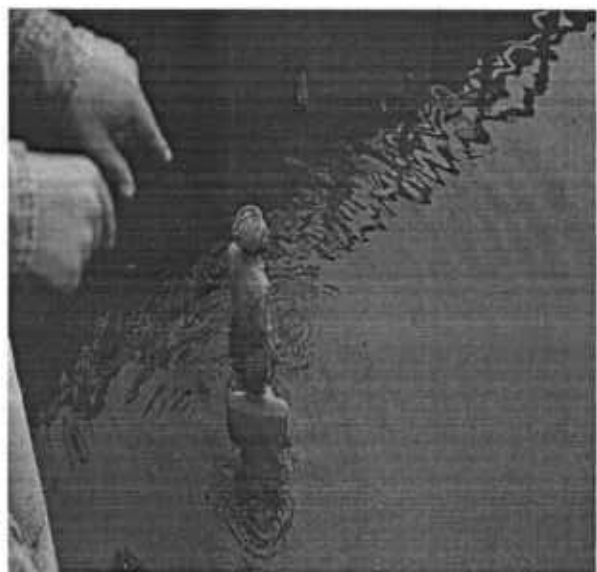
As a follow-up of the decisions taken in III Meeting of the Monitoring Committee which was held on 26.09.2018 at Jalandhar, Committee members comprising Shri Balbir Sing Seechewal, Member, Shri J.C.Babu, Sc 'D' and Nodal Officer, CPCB and Shri NirajMathur, SEE and representative of RSPCB and the officials of PPCB, Jalandhar inspected the STP located at Peer Daad so as to verify the claims of Shri Kishor Bansal, Superintending Engineer, Municipal Corporation Jalandhar and also the committee inspected a Common Effluent Treatment Plant (CETP) located pertaining to the leather complex at Jalandhar. Photographs taken during the visit to CETP at Leather Complex, Jalandhar are given in **Figure 7**. During the visit to CETP at Leather Complex, Jalandhar (owned by Punjab Effluent Treatment Society), the observations made by the Committee members are as follows:-

- (i) CETP in leather complex was not in operation but under maintenance;

- (ii) Chromium bearing sludge removed from the sludge drying beds is kept in open yard adjacent to the sludge drying beds which may lead to soil and ground water contamination;
- (iii) Housekeeping in CETP was very poor;
- (iv) Workers were found to be replacing the new aerators in place of old aerators without any safety precautions (without wearing any PPE);
- (v) There is no provision of surface run off collection drain provision within the premises of CETP and thereby surface run off is leading towards preliminary storage tank;
- (vi) OCEMS at the ETP outlet not yet provided for continuous monitoring of the treated effluent before its discharge, which is a serious violation of directions issued by CPCB;
- (vii) Outlet of CETP is located close to the Kala Singhian drain and possibility of untreated industrial effluent into the drain cannot be ruled out.
- (viii) Considering the likely impacts due to improper disposal of chromium bearing sludge in Open Yard, the Committee directed the CETP authorities to lift and dispose of the chromium bearing sludge immediately through a TSDF, Nimbua following the manifest as per Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016 as amended.
- (ix) The CETP authorities could not show any documents relating to the CETP.
- (x) The Committee also directed CETP authorities to inform once the CETP become operational for re-inspection.



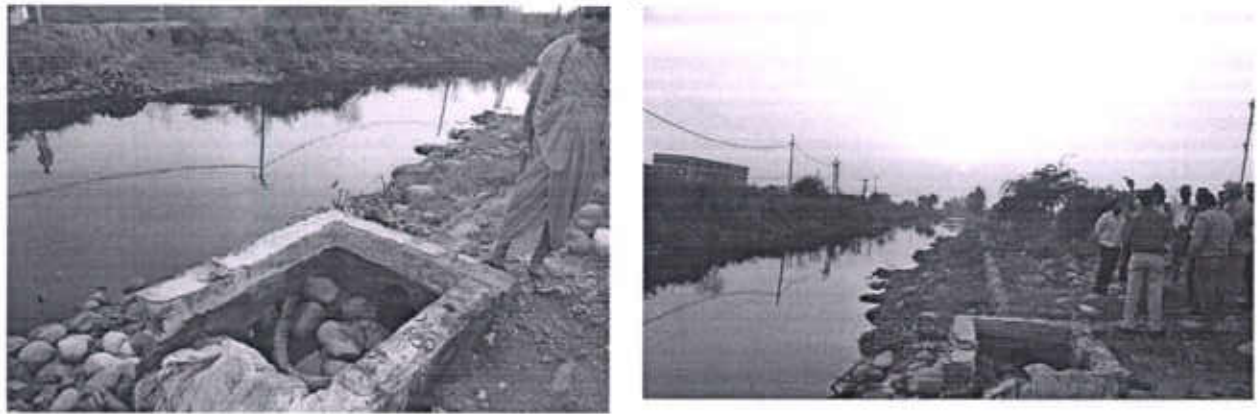
Improper Industrial Effluent Holding Tank



Workers replacing aerators without PPE



Improper Storage of Chromium Bearing Sludge-Stored in Open Yards



Effluent Discharge Point into Kala Sanghian Drain

Figure 7 Photographs taken during the visit to CETP at Leather Complex, Jalandhar by the Committee

5.3.2 Visit to 50 MLD capacity STP located adjacent to the leather complex at Jalandhar, i.e., Basti Peer Dad

Later, afore-said Committee also visited 50 MLD capacity STP located adjacent to the leather complex at Jalandhar, i.e., Basti Peer Dad to verify the claims made by Shri Kishore Bansal, Superintending Engineer and Shri GaganLuthera, Assistant Engineer, Municipal Corporation, Jalandhar. Main observations of the Committee are:-

- (i) There is no sign of proper operation of the STP;
- (ii) Automatic skimming provision is not in working condition;
- (iii) STP is having bye-pass arrangement without any electromagnetic flow measuring unit to record any discharge through bye-pass arrangement
- (iv) The sludge generated from the press filter arrangement were surprised to find that the cake of sludge had long dried up and efforts had been made to drench it by throwing water on it.
- (v) Sludge lying in the STP premises is not at par with the efficiency of the STP w.r.to removal of solids present in the raw sewage;
- (vi) OCEMS installed in the STP outlet is not in working condition;

- (vii) Authorities are not having thorough knowledge on operation aspects of STP due to lack of adequate training and skilled man power for proper operation of the STP;
- (viii) Requisite records are not maintained properly.

Therefore, Committee directed Shri Kishore Bansal, Superintendent Engineer, Municipal Corporation, Jalandhar to take immediate remedial measures and to apprise the committee in the next meeting.

5.3.3. Visit to CETP at Ludhiana (M/s. JBR Technologies Pvt. Ltd.,)

The monitoring committee members comprising Shri. Balbir Singh Seechewal, Shri J Chandra Babu, Scientist-D (Nodal Officer), CPCB and other officials of PPCB Viz., Sh. Rajeev Sharma, Senior Environmental Engineer, PPCB, Zonal Office-2, Ludhiana; Sh. D.K. Singla, Environmental Engineer, PPCB, Regional Office-4, Ludhiana; Sh. Sushil Kumar, Junior Environmental Engineer, PPCB, Regional Office-4, Ludhiana visited CETP on 06.10.2018 which is operated by M/s JBR Technologies Pvt. Ltd located at Focal Point, Phase-VIII, Ludhiana for treatment of effluent being lifted from small scale electroplating industries of Ludhiana, Jalandhar, Amritsar, Mohali etc.

Photographs taken during the visit to CETP at Ludhiana are given in **Figure 8**



Improper collection tanks used for collection of industrial effluent from member industries



Provision for Transfer of Industrial effluent from the Transportation Vehicle



O & G Removal Tank



Effluent Holding Tank



Settling Tanks for settling of solids

Sludge Dryig Bed

Figure 8 Photographs taken during the visit to CETP at Ludhiana on 06.10.2018 by the Committee

The CETP Operator informed that there are 1615 members providing their trade effluent to the CETP. About 450 KLD of trade effluent from 150-200 industries is being lifted daily. 80% of the trade effluent received and treated goes to the adjoining dyeing industry. Vehicle used by the CETP for collection of industrial effluent from member industries is fitted with GPS.

Following suggestions were made by the monitoring committee members for carrying out necessary improvements by the CETP Operator within two months:-

- (i) The CETP Operator is required to provide information on industry-wise information regarding quantity for which agreement has been made, quantity actually lifted on monthly basis for the last one year. PPCB shall also provide the list of all these electroplating industries along with consented quantity of trade effluent to be generated.
- (ii) The transportation vehicles used for collection of industrial effluent should be lined with acid proof lining on sides and at bottom with a spill collection provision at the bottom for collection of spillages during the transportation or may also use closed type of tanker with all necessary provisions. Such collected spillages may be ensured further treatment.
- (iii) The transportation vehicles should be provided with name and contact details of the CETP Operator on all the four sides so that the information can be provided in case of any eventuality/accident.
- (iv) PPCB should direct all the member industries of CETP to provide only neutralised industrial effluent to the CETP Operator, considering the safety aspects during transportation and handling of such industrial waste water.
- (v) Automatic dosage system in place of the manual dosage of lime bepracticed by the CETP operator for neutralisation of untreated effluent.
- (vi) All the CETP areas should be properly earmarked by providing proper sign boards and also a layout of ETP at the entrance and also display board at

the entrance indicating validity of consent and authorisation, wastewater treatment capacity and contact details of the CETP, should be provided by the Operator.

- (vii) The CETP should provide acid proof lining in the collection tank and the trenches in which the effluent is collected from the tankers, with proper sealing to avoid soil contamination.
- (viii) House keeping needs improvement.
- (ix) Instead of sludge drying beds, drum filter or centrifuge may be used for sludge handling prior to the disposal through TSDF Operator.
- (x) Proper records should be maintained by the CETP Operator and submitted.

6. Awareness programmes organized by the Monitoring Committee

Awareness programmes organized by the monitoring committee under the chairmanship of Shi Balbir Singh Seechewal are given in the following



Public Meeting in Kapurthala City for Pollution free Kali Bein, tributary of Beas River Organied on 7-09-2018



Awareness campaign at Sidhwan Bait (Ludhiana) for Sutlej River (29-07-2018)

Awareness Program at Seechewal Collage about east Bein tributery of

Sutlej (02-08-2018)



Speech to students for clean environment
(04-08-2018)



A program on Avtar Radio discussion
about river pollution (03-08-2018)



Awareness speech to citizen of Ludhiana about Budda Nallah pollution during
Marathon race held in Ludhiana on 12-08-2018

Figure-9 Awareness programmes organized by the Monitoring Committee

7. Proposed actions by the Monitoring Committee for ensuring compliance to the Hon'ble NGT Orders dated 24.07.2018, 04.09.2018 and 05.10.2018

Hon'ble National Green Tribunal (NGT) vide Order dated 04.09.2018 directed that the issues relating to OA No.345 of 2018 (titled Amber Sachdeva (Vs) UOI &Ors, and OA No 344 of 2018 (titled Sukhpal Singh Khaira, MLA, Punjab Assembly &Ors (Vs) UOI &Ors) i.e., Molasses discharge from M/s. Chadda Sugars Ltd., in River Beas is also required to be looked into the issues by the Monitoring Committee constituted by CPCB in compliance to the Hon'ble NGT order dated 24.07.2018.

Also, Hon'ble National Green Tribunal (NGT), PB, New Delhi vide order dated 05.10.2018 also directed that the issues relating to OA No. 206/2016 titled Capt Hans Raj Singha Vs Union of India & Ors - massive illegal mining on the private lands of Capt Hans Raj Singha as well as

adjoining forest lands in Village Sataun under Nirmaund Sub-division of Kullu district in HP, without obtaining required approvals, also be monitored by the Monitoring Committee apart from finalization and submission of action plans in compliance to the Hon'ble NGT Order dated 24.07.2018 in the matter of O.A No 101/2014 filed by Sobha Singh Vs State of Punjab & Ors.

For ensuring compliance to the afore-said orders of the Hon'ble NGT, the Monitoring Committee proposes following actions before finalizing and submission of its report as follows:-

- (1) To analyse the data relating to samples collected from Rivers Sutlej, Beas and major drains (sampling planned by the committee could not be completed as planned in September 2018 due to heavy rains in Punjab as the analysis results may not reflect factual pollution scenario) by the monitoring committee during October 07-08, 2018 and the results are expected within a month from CPCB laboratories.
- (2) Concerned Departments of the Punjab State Government have prepared and presented the preliminary action plans for control of pollution in Rivers Sutlej and Beas only in IV meeting of the Monitoring Committee which was held on 17.10.2018 in CPCB, Delhi which are required to be examined thoroughly by the committee and proposes two more meetings with the concerned departments for finalization of the action plans, for which atleast one and half a month is required.
- (3) PPCB has constituted an expert committee for preparing the action plans for rejuvenation of the river Beas. The recommendations of the Expert Committee has been received by PPCB are under review and action plans would be submitted *within a month*.

Further, Monitoring Committee also proposes a visit to the industry which was indulged in discharge of molasses followed by a meeting with all the concerned authorities to discuss the issues relating to the discharge of molasses into River Beas and also for finalization of the action plans for restoration of the River Beas if required.

- (4) In order to examine the issue relating to illegal sand mining in the context of order passed by Hon'ble NGT in the matter of OA No. 206/2016 titled Capt Hans Raj Singha Vs Union of India & Ors, the Monitoring Committee proposes visit to the sand mining area in Himachal Pradesh under reference in the afore-said matter as well as a meeting with all the concerned departments in mid of November 2018 wither Shimla or at Kullu in Himachal Pradesh. Therefore, Committee requires *one and half a month time* for examining this issue.
- (5) Health Department, Government of Punjab sought time of two months time for conducting epidemiological health studies in the Towns and illages falling in the catchment areas of Rivers Sutlej, Beas as well as along the major drains causing health impacts.

- (6) Random inspection of 10 % of grossly polluting major industries (like Fertilizer, Chemical, Pulp & Paper, Sugar, Distillery, Electroplating, Tanneries and Dyeing etc.,) located in the catchment areas of Rivers Sutlej and Beas, jointly by CPCB and PPCB for verification of compliance to the notified norms.

In view of the afore-said reasons, Monitoring Committee yet to look into the above issues, it was decided that interim report of the monitoring committee be filed through CPCB on or before 31.10.2018 seeking additional time of **three more months** for filing its report covering all the afore-said issues **on or before 31.01.2019**.



(Sant Balbir Singh Seechewal)
Member



(Rajeev Sharma)
Nodal Officer, PPCB



(Amardeep Dhaliwal)
Member, Punjab State Government



(Niraj Mathur)
Sr. Envi. Engineer,
Representative of RSPCB



(J. Chandra Babu)
Scientist 'D' and Nodal Officer, Central Pollution Control Board

Annexure-I

Urban-Area wise Polulation, Sewerage Generation and STPs with Capacities, Gaps Identified and Final Mode of disposal Sewage

Sl. No	Name of Town	Population	Total Waste water Generated in MLD	Total Sewerage presently treated and disposed in MLD	Gap in MLD	Number of STPs					Final Mode of disposal of Sewage in Drain / River
						Existing (No.)	Treatmet Capacity (MLD)	Proposed (No.)	Capacity (MLD)	Under Commissioning (No.)	
1	Abohar	175556	20.00	20.00	0.00	1	25	-	-		Sutlej
2	Banga	24089	2.50	2.50	0.00	1	3	-	-		Sutlej
3	Goniana	16135	1.50	1.50	0.00	1	1.5	-	-		Used for irrigation
4	Hoshiarpur	195366	20.00	20.00	0.00	1	30	-	-		Sutlej
5	Jalandhar	950000	300.00	235.00	65.00	6	235	1	25		Sutlej
6	Jalalabad MC	41000	6.00	6.00	0.00	1	8	-	-		Sutlej
7	Jagraon MC	74201	14.00	14.00	0.00	2	28	-	-		Sutlej
8	Kurali	35504	4.07	4.07	0.00	1	5	-	-		Sutlej
9	Ludhiana	2130000	566.00	466.00	100.00	5	466	1	180		Sutlej
10	Machhiwara	28507	3.00	3.00	0.00	1	4	-	-		Used for irrigation
11	Malout	88746	10.00	10.00	0.00	2	13	-	-		3 MLD used for irrigation
12	Mukatsar	106235	12.19	12.19	0.00	3	3.5	1	10		Sutlej
13	Moga	173078	50.00	16.00	34.00	1	27	-	-		Sutlej
14	Nakodar	42236	5.00	5.00	0.00	1	6	-	-		Sutlej
15	Nangal	52072	6.00	6.00	0.00	2	13	-	-		8 MLD used for irrigation
16	Nawanshahar	51469	6.00	6.00	0.00	1	6	-	-		Sutlej

17	Phagwara	146002	28.00	28.00	0.00	3	36	-	-			Sutlej(20 MLD for irrigation)
18	Phillaur	31042	3.60	3.60	0.00	2	5.6	-	-			Sutlej
19	Ropar	64688	8.00	8.00	0.00	3	14.5	-	-			Sutlej
20	Sahnewal	27061	3.00	3.00	0.00	1	7	-	-			Sutlej
21	Anandpur Sahib	18669	2.14	2.14	0.00	1	8	-	-			Sutlej
22	Zira	43898	5.00	5.00	0.00	1	8	-	-			Sutlej
23	Jaitu	44614	5.00	-	5.00	-	-	-	-	1	6	Sutlej
24	Arniwala	10936	1.00	-	1.00	-	-	-	-	1	1	Sutlej
25	Baghapurana	29686	3.41	-	3.41	-	-	-	-	1	3.8	Sutlej
26	Kotkapura	109830	12.00	-	12.00	-	-	-	-	2	14	Sutlej
27	Ferozepur	128461	14.00	-	14.00	-	-	1	1	1	18	Sutlej
28	Guruharsahai	30960	3.50	-	3.50	-	-	-	-	2	5	Sutlej
29	Makhu	18573	2.00	2.00	0.00	1	4	-	-			Sutlej
30	Morinda	33378	4.00	-	4.00	-	0	-	-	1	5.5	Sutlej
31	Nurmahal	16476	0.50	0.50	0.00	1	2.6	-	-			Sutlej
32	Shahkot	16567	2.00	-	2.00	-	0	-	-	1	3	Sutlej
33	Talwandi Bhai	20954	2.00	2.00	0.00	1	4	-	-			Sutlej
34	Dharamkot	22845	3.00	3.00	0.00	1	4	-	-			Sutlej
35	Adampur	18776	2.00	-	2.00	-	-	1	3			Sutlej
36	Balachaur	24408	2.50	-	2.50	-	-	1	4			Sutlej
37	Rahon	16979	2.00	-	2.00	-	-	1	3			Sutlej
38	Patti	47512	5.50	-	5.50	-	-	1	8			Pond
39	Goraya	18022	2.00	-	2.00	-	-	1	4			Sutlej
40	Samrala	22957	2.50	-	2.50	-	-	1	4			Sutlej
41	Faridkot	104805	12.00	-	12.00	-	-	1	14			Sutlej
42	Garhshankar	20636	2.50	-	2.50	-	-	1	3			Sutlej
43	Maluka	6408	1.00	-	1.00	-	-	1	1			Sutlej
44	Kiratpur Sahib	8573	1.00	-	1.00	-	-	1	2			Sutlej

45	Raikot	33165	3.81	-	3.81	-	-	-	-			Sutlej
46	Maloud	8331	1.00	1.00	0.00	1	1.5	-	-			used for irrigation
47	Payal	8334	1.00	1.00	0.00	1	1.5	-	-			used for irrigation
48	Mullanpur	16356	2.00	2.00	0.00	1	3	-	-			used for irrigation
49	Doraha											
a	Zone-I (Arachan)	15844	2.50	2.50	0.00	1	2.75	-	-			used for irrigation
b	Begowal (Doraha, Zone-II)	7982	0.40	0.40	0.00	1	1	-	-			used for irrigation
c	Zone-III (Rajgarh)	2762	0.20	0.20	0.00	1	1	-	-			used for irrigation
50	Sham Churasi	4871	0.50	0.50	0.00	1	1.00	-	-			Sutlej
51	Bhulath	1186	1.50	1.50	0.00	1	3.00	-	-			used for irrigation
52	Dasuya	26540	2.85	2.85	0.00	1	4.00	-	-	0.00		used for irrigation
53	Kapurthala	107266	24.00	24.00	0.00	1	25.00	-	-	0.00		Beas
54	Mukerian	35250	4.00	4.00	0.00	1	5.00	-	-			Beas
55	Pathankot	286721	18.00	0.00	18.00	1	27.00	2.00	3.20			Beas
56	Sri Hargobindpur	9360	1.00	1.00	0.00	1	1.00	-	-			used for irrigation
57	Sultanpur Lodhi	18540	3.24	2.60	0.64	1	2.60	2.00	5.00	0.00		used for irrigation
58	Tanda	27411	3.00	3.00	0.00	1	4.00	-	-			Beas
59	Rayya	16333	2.00	0.00	2.00	-	0.00	1.00	3.50			Beas
60	Dhilwan	9328	1.00	0.00	1.00	-	0.00	1.00	2.50			pond
61	Hariana	9710	1.00	0.00	1.00	-	0.00	1.00	2.00			Beas
62	Kartarpur	28122	3.00	0.00	3.00	-	0.00	1.00	4.00			Beas
63	Begowal	11265	1.50	1.50	0.00	1	2.5	-	-			Beas
64	Barriwala	9200	1.00	0.00	1.00	-	-	-	-			No sewerage, In village Pond,
65	Mamdot	19423	2.00	-	2.00	-	-	-	-			No sewerage, In village Pond
66	Mallanwala	18943	2.00	-	2.00	-	-	-	-			No sewerage, In village Pond

67	Mudki	11919	1.00	-	1.00	-	-	-	-	-	No sewerage, In village Pond
68	Bhai Roopa	15345	1.50	-	1.50	-	-	-	-	-	No sewerage, In village Pond
69	Bhagta Bhaika	14687	1.50	-	1.50	-	-	-	-	-	No sewerage, In village Pond
70	Kothaguru	11088	1.00	-	1.00	-	-	-	-	-	No sewerage, In village Pond
71	Fatehgarh Panjtoor	5478	1.00	-	1.00	-	-	-	-	-	No sewerage, In village Pond
72	Bilga	10745	1.00	-	1.00	-	-	-	-	-	No sewerage, In village Pond
73	Lohian	11547	1.00	-	1.00	-	-	-	-	-	No sewerage, In village Pond
74	Mahilpur	13367	1.00	-	1.00	-	-	-	-	-	No sewerage, In village Pond
75	Nihal Singh wala	12467	1.00	-	1.00	-	-	-	-	-	No sewerage, In village Pond
76	Kot Ise Khan	15494	1.50	-	1.50	-	-	-	-	-	No sewerage, In village Pond
77	Mahitpur	15406	1.50	-	1.50	-	-	-	-	-	No sewerage, In village Pond
78	Alawalpur	8606	1.00	-	1.00	-	-	-	-	-	No sewerage, In village Pond
79	Bhogpur	15432	2.00	-	2.00	-	-	-	-	-	No sewerage, In village Pond
80	Sujanpur	32645	4.00	-	4.00	-	-	-	-	-	No sewerage, In village Pond
81	Nadala	7588	1.00	-	1.00	-	-	-	-	-	No sewerage, In village Pond

82	Talwara	20216	2.50	-	2.50	-	-	-	-	-	-	No sewerage, In village Pond
83	Gardhiwala	8994	1.00	-	1.00	-	-	-	-	-	-	No sewerage, In village Pond
Total		Population: 6251176	Total sewage generation: 1268 MLD	Total sewage treated and disposed: 931.56 MLD	Gap: 336 MLD	No. of Existing STPs: 61	Existing Treatment Capacity: 1054	22	282	10	56	

Information regarding industries contributing their effluent to river Sutlej/Beas directly or indirectly and which are having captive ETPs in Ludhiana area

Sr. No.	Name & Address of the industry	Scale of the industry	Category of the industry	Consent status under Water Act, 1974 (with consent/without consent)	Authorization status under HWM Rules, 2016 (with authorization/without authorization)	Water consumption in (MLD)	Quantity of trade effluent in (MLD)	Quantity of treated waste water recycled/reused (In MLD)	Total trade effluent discharged (In MLD)	Name of Receiving river (Sutlej/Beas)	Status of ETP (captive ETP/common ETP)	Status of compliance w.r.t effluent discharged norms (Complying/not complying)	Status of Action taken against non-compliance (previous column)	Whether the unit is covered under 17 category of industries (yes or no)	Status of 17 categories of industries which have not installed Online continuous effluent monitoring system (OCEMS) (installed/not installed)	Status of 17 category of industries indicating whether data is transferred to the servers of PPCB/CPCB (yes or no)
1	Adhi Enterprises, B-XXIII-2120/1, Textile Colony, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.11	0.1	0	0.1	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
2	Adya Exports, 415, Industrial Area-A, Ludhiana	S	O	With Consent	With Authorization	0.02	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
3	Ashoka Dyeing & Finishing Mills Pvt. Ltd., C-132-133, Phase-5, Focal Point, Ludhiana	M	R	With Consent	With Authorization	1.12	1	0	1	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

4	Awon Printers, St. No. 3, Baba Gajja Jain Colony, Near Moti Nagar, Ludhiana	S	R	With Consent	With Authorization	0.17	0.15	0	0.15	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
5	Azeez Fabrics Pvt. Ltd (Previously Gulab Industries Pvt. Ltd.), 251, Industrial Area-ALudhiana	S	R	With Consent	With Authorization	0.5	0.45	0	0.45	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
6	B.K Wools, 236/5, Industrial Area-A Ludhiana	S	R	With Consent	With Authorization	0.06	0.05	0	0.05	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
7	B.S Dyers, Plot No. 7, Friends Industrial Estate, Opp Aarti Steels, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.08	0.07	0	0.07	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
8	Badrinath Textiles, 2685, Baba Gajja Jain Colony, Moti Nagar, Ludhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
9	Bharat Jiwan Dyeing Factory, 42, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.11	0.1	0	0.1	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
10	Blue Star Processors Pvt. Ltd. (Demerger from Sangam Weavers Pvt. Ltd.), D-57-58, Phase-5, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.46	0.4	0	0.4	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
11	Capital Dyeing Company, 176, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.11	0.1	0	0.1	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

12	D.V Saharan & Sons, Plot No. 404, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
13	Dada Motor, N-17, Kailash Colony, Focal Point Road, Sherpur Kalan, Ludhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
14	Dada Motors, Savitri Complex, Near Dholewal Chowk, G.T. Road, Ludhiana	S	O	With Consent	With Authorization	0.02	0.02	0	0.02	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
15	Evershine PapersC-81, Phase-5, Focal Point Ludhiana	S	R	With Consent	With Authorization	0.14	0.12	0	0.12	Sutlej (Indirectly through MC Sewer)	Captive	Not-Complying	Action under Water Act, 1974 under process	No	NA	NA
16	Golu International14-A, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.13	0.12	0	0.12	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
17	Greatway Pvt. Ltd., Opp. Military Camp, Dholewal, G.T Road, Ludhiana	L	O	With Consent	With Authorization	0.1	0.08	0	0.08	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
18	Grover Motors Pvt. Ltd.Focal Point RoadLudhiana	S	O	With Consent	With Authorization	0	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
19	Gulab DyeingD-83, Phase-5, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.66	0.6	0	0.6	Sutlej (Indirectly through MC Sewer)	Captive	Not-Complying	Action under Water Act, 1974 under process	No	NA	NA

20	Gulzar Motors Ltd.Opp. Military Camp, G.T Road, Dholewal ChowkLudhiana	S	O	With Consent	With Authorization	0.02	0.02	0	0.02	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
21	Gulzar Trading Company (TVS), G.T. Road, Dholewal Chowk, Ludhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
22	H.C Dyeing Works, B-30, Plot No. 3595-96, Baba Deep Singh Nagar, Opp Truck Union, Bye Pass Road, Moti Nagar, Ludhiana	S	R	With Consent	With Authorization	0.44	0.4	0	0.4	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
23	Ishan Enterprises887, Industrial Area-ALudhiana	S	R	With Consent	With Authorization	0.06	0.06	0	0.06	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
24	J.S Jain Dyeing FactoryPlot no. 26/6/2, Baba Gajja Jain Colony, Near Moti Nagar, Bye Pass Ludhiana	S	R	With Consent	With Authorization	0.16	0.14	0	0.14	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
25	Jaidka Woollen & Hosiery Mills Pvt. Ltd.133-134, Industrial Area-ALudhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
26	Jamna Dyeing & Finishing Mills2840, Industrial Area-A, Link Road, Opp Aman Dharam Kanda,Ludhiana	S	R	With Consent	With Authorization	0.07	0.06	0	0.06	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

27	K.L Jagdish Chander Jain1137/6/7, Lakshmi Nagar, ShivpuriLudhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
28	Kamal Knitting Works, 4716, Near Jain Sthanak, Sunder Nagar, Ludhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
29	Kansal Hosiery Exports, 279-280-281, Industrial Area-A, Ludhiana	S	O	With Consent	With Authorization	0.11	0.1	0	0.1	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
30	KDM Clothing CompanyPlot No.5, Corporation Industrial Colony, Sherpur Kala, Focal Point Road,Ludhiana	S	O	With Consent	With Authorization	0.02	0.02	0	0.02	Sutlej (Indirectly through MC Sewer)	Captive	Not-Complying	Action under Water Act, 1974 under process	No	NA	NA
31	KKK MillsD-40, Phase-5, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.1	0.09	0	0.09	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
32	L.C. Oswal Hosiery Pvt. Ltd. 414, Industrial Area-A Ludhiana	S	O	With Consent	With Authorization	0	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
33	Madan Dyeing & Finishing FactoryJ-1, Textile Colony, Industrial Area-ALudhiana	S	R	With Consent	With Authorization	0.28	0.25	0	0.25	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
34	Maharaja Processor, D-139, Phase-5, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.62	0.56	0	0.56	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

35	Malhotra DyeingKuldeep Nagar, Jalandhar Road,Ludhiana	S	R	With Consent	With Authorization	0.61	0.55	0	0.55	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
36	Meera Apparels, 2590, Baba Gajja Jain Colony, Near Moti Nagar, Ludhiana	S	O	With Consent	With Authorization	0	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
37	Nahar Industrial Enterprises Ltd. (Garment Unit) Leased to Cotton County Retails Ltd., Phase-4, Focal Point, Ludhiana	L	O	With Consent	With Authorization	0.18	0.14	0	0.14	Sutlej (Indirectly through MC Sewer)	Captive	Not-Complying	Action under Water Act, 1974 under process	No	NA	NA
38	Nahar Spinning Mills Ltd, Dhandari Kalan, Focal Point, Ludhiana	L	R	With Consent	With Authorization	2.97	2.65	0	2.65	Sutlej (Indirectly through MC Sewer)	Captive	Not-Complying	Action under Water Act, 1974 under process	No	NA	NA
39	National Scientific Dyers, 37, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.34	0.3	0	0.3	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
40	Natraj Scientific DyersOpp. Aman Dharam Kanda, Link Road, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.23	0.2	0	0.2	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
41	Nav Bharat Dyeing Works, Sardar Nagar, Rahon Road, Ludhiana	S	R	With Consent	With Authorization	0.11	0.1	0	0.1	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

42	Navyug Laminates Prop. Versatile Enterprises Pvt. Ltd.C-124, Phase-5, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.33	0.29	0	0.29	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
43	Neelam Dyeing & Printing HouseSt. No. 1, Kirpal NagarLudhiana	S	R	With Consent	With Authorization	0.35	0.32	0	0.32	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
44	Om Processors Pvt. Ltd.K-3, Textile Colony, Industrial Area-ALudhiana	S	R	With Consent	With Authorization	0.77	0.7	0	0.7	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
45	Oriental Knitfab Pvt. Ltd.278, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.25	0.23	0	0.23	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
46	Oriental Textile Processing Company Private LimitedSamrala Chowk, Industrial Area-ALudhiana	L	R	With Consent	With Authorization	0.99	0.9	0	0.9	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
47	Oswal Knit India Ltd., 230, Industrial Area -A, Ludhiana	L	R	With Consent	With Authorization	0.07	0.05	0	0.05	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
48	Pankaj Collection2193/1, Baba Gajja Jain Colony, Moti NagarLudhiana	S	O	With Consent	With Authorization	0.04	0.04	0	0.04	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
49	Pawan Lakshmi Processors35-36 B, Textile Colony, Industrial Area-ALudhiana	S	R	With Consent	With Authorization	0.1	0.09	0	0.09	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

50	Perfect Dyeing & Finishing Industries97-C, Industrial Area-A Ludhiana	S	R	With Consent	With Authorization	0.27	0.24	0	0.24	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
51	Pritam Sci. Dyers16-A, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.31	0.29	0	0.29	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
52	Punjab Motors (Workshop Division)B-XXI-14628, Gandhi Nagar, G.T RoadLudhiana	S	O	With Consent	With Authorization	0	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
53	Punjabi Dyeing, 367, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.28	0.25	0	0.25	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
54	R.P Processors848/11, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.28	0.25	0	0.25	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
55	Rajneesh Dyeing House, 16-B, Industrial Area-A (Extension), Ludhiana	S	R	With Consent	With Authorization	0.07	0.06	0	0.06	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
56	Ramal Dyeing, Jalandhar Bye Pass, Opp. Shakti Nagar, Ludhiana	S	R	With Consent	With Authorization	0.39	0.35	0	0.35	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
57	Rampal Sci.Dyers216, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.11	0.1	0	0.1	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
58	Raunaq Fabrics C-30, Phase-2, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.25	0.23	0	0.23	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

59	Rosy Spinning Mills (P) Ltd.(Previously Known as Rosy Woollen Mills Pvt. LtdD-79, Phase-5, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.33	0.3	0	0.3	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
60	Runit FabricsB-XXIV, H.No. 3020/3021, Sunder NagarLudhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
61	S.V Exports281, Industrial Area-A, Ludhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
62	Saachi Processors (P) Ltd.3-A, Adjoining Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.88	0.8	0	0.8	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
63	Sagar ApparelsB-XXX-2586/87, Baba Gajja Jain Colony, Moti NagarLudhiana	S	R	With Consent	With Authorization	0.3	0.27	0	0.27	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
64	Sailopal Dyeing Works (Regd.)D-96, Phase-5, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.06	0.05	0	0.05	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
65	Sangam Dye HouseH-8, Textile ColonyLudhiana	S	R	With Consent	With Authorization	0.22	0.2	0	0.2	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
66	Sanjeev Dyeing Works, 1004/9, Circular Road, Ludhiana	S	R	With Consent	With Authorization	0.55	0.5	0	0.5	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

67	Swaastik Scientific Dyers (Previously Mahadev Dyeing & M/s Satyam Sci Dyers)D-4, Textile Colony, Industrial Area-A,Ludhiana	S	R	With Consent	With Authorization	0.14	0.13	0	0.13	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
68	Sewak Scintific DyersPlot No. 131/1, Industrial Area-ALudhiana	S	R	With Consent	With Authorization	0.06	0.05	0	0.05	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
69	Shiv Hosierey Exports357, Industrial Area-ALudhiana	S	O	With Consent	With Authorization	0	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
70	Shiva Dyeing & Finishing, E-97, Phase-4, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.45	0.39	0	0.39	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
71	Shivam Processors3-A, Hari Ram Dharam Kanda, Focal PointLudhiana	S	R	With Consent	With Authorization	0.55	0.49	0	0.49	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
72	Shree Dadu Autos (P) Ltd. (Pioneer Honda)G.T. Road, DholewallLudhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
73	Shree Ram ProcessorD-82, Phase-5, Focal Point Ludhiana	S	O	With Consent	With Authorization	0.06	0.05	0	0.05	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
74	Srishti Wool Combers (Formerly Known as Adeshwar Spinners Ltd.B-31, Phase-5, Focal Point, Ludhiana	S	G	With Consent	With Authorization	0.02	0.02	0	0.02	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

75	SunShine Dyeing Pvt. Ltd.261, Industrial Area-A, Ludhiana	S	R	With Consent	With Authorization	0.49	0.43	0	0.43	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
76	Super Tex ProcessorsD-121-122, Phase-5, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.99	0.9	0	0.9	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
77	Udhera Mechanical Works (Car Board Unit)C-66, Phase-3, Focal Point, Ludhiana	S	R	With Consent	With Authorization	0.51	0.47	0	0.47	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
78	Wings Field Knitwears Pvt. Ltd., C-119, Phase-5, Focal Point, Ludhiana	S	O	With Consent	With Authorization	0.03	0.02	0	0.02	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
79	R.B Knit Exports415, Industrial Area-ALudhiana	S	O	With Consent	With Authorization	0.06	0.05	0	0.05	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
80	R.N Davindera Hosiery, B-25, G-5/21 46/661/46B/9A, St. No. 2, Farid Nagar, Basti Jodhewal,Ludhiana	S	O	With Consent	With Authorization	0	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
81	Sangini Designer Wears Ltd.,B-23-143, Industrial Area-A,Ludhiana	S	O	With Consent	With Authorization	0.03	0.02	0	0.02	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
82	Sriyansh Knitters (P) Ltd.,H-7, Textile Colony, Industrial Area-A,Ludhiana	S	O	With Consent	With Authorization	0.03	0.02	0	0.02	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

83	Platinum Vehicles LLP (PIAGGIO), Near Shiva Chowk, Moti Nagar, Sherpur, Bypass, G.T Road, Ludhiana	S	O	With Consent	With Authorization	0	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
84	Superfine Knitters Ltd., C-5, Focal Point, Dhandari Kalan, Ludhiana	S	O	With Consent	With Authorization	0.17	0.15	0	0.15	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
85	Shivom Apparels, 2198, Baba Gajja Jain Colony, Opp. Sagar Dyeing, Ludhiana	S	O	With Consent	With Authorization	0.01	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
86	Vaneeta Texcraft Pvt. Ltd., 144, Industrial Area-A, Ludhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
87	Libra Auto Car Company Ltd., 1625/1697, Jalandhar Bye Pass, Opp. Moti Nagar, Ludhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Not-Complying	Action under Water Act, 1974 under process	No	NA	NA
88	Kamal Enterprises, 43, Industrial Area-A, Ludhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
89	Bhasin & Company, 3-A, Industrial Area-A Extension, Ludhiana	S	G	With Consent	With Authorization	0	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
90	Lloyds & Company, 42-b, Textile Colony, Industrial Area-A, Ludhiana	S	G	With Consent	With Authorization	0	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA

91	Sant Motors, G.T Road, Millerganj, Opp. Military Camp, Ludhiana	S	O	With Consent	With Authorization	0	0	0	0	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
92	Sandhu Automobiles Pvt. Ltd. (Dholewal Chowk), B-21-5-46/1616/1, G.T Road, Dholewal Chowk, Ludhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
93	Lakshay Knit India, B-30-1210/5, Friends Colony, Backside Aarti Steels Ltd., Focal Point, Ludhiana	S	O	With Consent	With Authorization	0.01	0.01	0	0.01	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
94	Goyal Knitwear (Regd.), 171, Industrial Area-A, Ludhiana	S	O	With Consent	With Authorization	0.02	0.02	0	0.02	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
95	GNC Dyeing & Finishing Mills, C-21, Phase-3, Focal Point,	S	R	With Consent	With Authorization	0.55	0.5	0	0.5	Sutlej (Indirectly through MC Sewer)	Captive	Complying	NA	No	NA	NA
96	Metro Tyre Pvt Ltd. , 503, Industrial Area-B, ludhiana	S	R	With consent	With authorization	0.029	0.015	0.015	0	0.015	Sutlej	Captive ETP	Complying		No	-
97	Newcastle Knitwears Plot NO. 556-57, Adjining to Sandhu Motor, Indl Area-B, Ludhiana	S	R	With consent	With authorization	0.0045	0.002	0.002	0	0.002	Sutlej	Captive ETP	Complying		No	-
98	Dada Motors (Nissan), G.T. Road, Dhandari Kalan, Ludhiana	S	O	With consent	With authorization	0.0058	0.0018	0.0018	0	0.0018	Sutlej	Captive ETP	Complying		No	-

99	Dada Motors (P) Ltd, Savitri Complex-1, Near Dholewal Chowk, G.T. Road, Ludhiana	S	O	With consent	Under Process	0.013	0.01	0.01	0	0.01	Sutlej	Captive ETP	Complying	No	-
100	Eveline International, G.T Road, Dhandari Kalan, Ludhiana	L	R	With consent	With authorization	0.86	0.75	0.75	0	0.75	Sutlej	Captive ETP	Complying	No	-
101	Ganesh Dyeing , G.T. Road, Dhandari Kalan, Ludhiana	S	R	With consent	With authorization	0.065	0.05	0.05	0	0.05	Sutlej	Captive ETP	Complying	No	-
102	Garg Acrelics Ltd. (Garment Divs.), Kanganwal Road, G.T. Road, Ludhiana	L	R	With consent	Under Process	0.073	0.06	0.06	0	0.06	Sutlej	Captive ETP	Complying	No	-
103	Garg Acrylics Ltd, Kanganwal Road, G.T Road, Ludhiana	L	R	With consent	Under Process	1.008	0.9	0.9	0	0.9	Sutlej	Captive ETP	Complying	No	-
104	Garyson Motors Pvt Ltd, Sherpur Chowk, Ludhiana	S	O	With consent	With authorization	0.012	0.009	0.009	0	0.009	Sutlej	Captive ETP	Complying	No	-
105	Goyal Auto Mobile Ltd, Industrial Area-C, Jugiana, Ludhiana	S	O	With consent	With authorization	0.013	0.009	0.009	0	0.009	Sutlej	Captive ETP	Complying	No	-
106	Goyal Auto Motive Ltd, VPO Jugiana, Indl Area-C, Ludhiana	S	O	With consent	With authorization	0.004	0.003	0.003	0	0.003	Sutlej	Captive ETP	Complying	No	-
107	Goyal Knitwear Pvt Ltd, G.T. Road, Ludhiana	S	R	With consent	With authorization	0.053	0.04	0.04	0	0.04	Sutlej	Captive ETP	Complying	No	-

108	Jay Cee Auto Mobile Pvt Ltd, Opp Dhandari Kalan, Railway Station, Ludhiana	S	O	With consent	With authorization	0.006	0.003	0.003	0	0.003	Sutlej	Captive ETP	Complying	No	-
109	Joshi Auto Zone Pvt Ltd, G.T. Road, Jugiana, Ludhiana	S	O	With consent	With authorization	0.0036	0.002	0.002	0	0.002	Sutlej	Captive ETP	Complying	No	-
110	Krishna Auto Mobiles, G.T. Road, Dhandari Khurd, Ludhiana	S	O	With consent	With authorization	0.0084	0.0075	0.0075	0	0.0075	Sutlej	Captive ETP	Complying	No	-
111	Krishna Auto Sales, G.T Road, Dhandari Kalan, Ludhiana	S	O	With consent	With authorization	0.0043	0.003	0.003	0	0.003	Sutlej	Captive ETP	Complying	No	-
112	Lally Motors Pvt Ltd, Dhandari Kalan, Ludhiana	S	O	With consent	With authorization	0.014	0.011	0.011	0	0.011	Sutlej	Captive ETP	Complying	No	-
113	Ludhiana Beverage Pvt Ltd, 185 G.T. Road, Ludhiana	L	R	With consent	With authorization	0.102	0.09268	0.09268	0	0.09268	Sutlej	Captive ETP	Complying	No	-
114	Monte Carlo Fashion Ltd of M/s Oswal Woolen Mill Unit-5, b-XXIX-106, G.T. Road, Sherpur, Ludhiana	L	R	With consent	With authorization	0.365	0.18	0.18	0	0.18	Sutlej	Captive ETP	Complying	No	-
115	Oswal Woollen Mills Ltd Unit-3, 105-BXXIX, G.T Road Sherpur, Ludhiana	L	R	With consent	With authorization	4.53	3.8	3.8	0	3.8	Sutlej	Captive ETP	Complying	No	-
116	Rider Export, 116-B, Oswal Agro Complex, Giaspura, Ludhiana	S	R	With consent	With authorization	0.0084	0.006	0.006	0	0.006	Sutlej	Captive ETP	Complying	No	-

117	Sharman Woollen Mills Ltd, VPO Jugiana, Ludhiana	L	R	With consent	With authorization	0.21	0.175	0.175	0	0.175	Sutlej	Captive ETP	Complying	No	-	
118	Stan Auto Pvt Ltd, G.T. Road, Sherpur Chowk, Ludhiana	S	O	With consent	With authorization	0.019	0.015	0.015	0	0.015	Sutlej	Captive ETP	Complying	No	-	
119	Swani Motors Pvt Ltd, 523, G.T. Road, Dhandari Kalan, Ludhiana	S	O	With consent	With authorization	0.0129	0.015	0.015	0	0.0103	Sutlej	Captive ETP	Complying	No	-	
120	Madhav Fashions, B/s Avon cycle Ltd, Shanti Nagar, Giaspura, Ludhiana	S	R	With consent	With authorization	0.0023	0.0015	0.0015	0	0.0015	Sutlej	Captive ETP	Complying	No	-	
121	Grover Automobiles, Opp. Dhandari Kalan Railway Station, G T Road, Ludhiana	S	O	With consent	With authorization	0.0205	0.0015	0.0015	0	0.015	Sutlej	Captive ETP	Complying	No	-	
122	Sandhu Automobiles Pvt Ltd, Link Road, Dholewal Chowk, Ludhiana	S	O	With consent	With authorization	0.0053	0.002	0.002	0	0.002	Sutlej	Captive ETP	Complying	No	-	
123	Globe Automobiles Pvt Ltd, G T Road, Jugiana, Ludhiana	S	O	With consent	With authorization	0.0097	0.005	0.005	0	0.005	Sutlej	Captive ETP	Complying	No	-	
124	A.D. Dyeing & Finishing Mills, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.165	0.15	0	0.15	Sutlej	Captive ETP	Complying	NA	No	NA	NA

125	A.K. Dyeing House, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.385	0.35	0	0.35	Sutlej	Captive ETP	Complying	NA	No	NA	NA
126	A.K. Dyeing, Jaswal Complex, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
127	Aashish Dyeing, (Shivala Processors), 2220/6, Mahavir Complex, Opp. Central Jail, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.165	0.15	0	0.15	Sutlej	Captive ETP	Complying	NA	No	NA	NA
128	Abhay Processors Eariler known as Shyam Dyeing & Finishing Mills, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.176	0.16	0	0.16	Sutlej	Captive ETP	Complying	NA	No	NA	NA
129	Adarsh Processors, Mahavir Complex, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.088	0.08	0	0.08	Sutlej	Captive ETP	Complying	NA	No	NA	NA
130	Aman Processors, Opp. Central Jail, Near Shiv Mandir, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.165	0.15	0	0.15	Sutlej	Captive ETP	Complying	NA	No	NA	NA

131	Arora Brothers Creations, Plot no. 48, Jaswal Complex, Opp. Central Jail, Tajpur Road, Ludhiana.	S	O	With consent	With authorization	0.13375	0.125	0	0.125	Sutlej	Captive ETP	Complying	NA	No	NA	NA
132	Balak International, Plot No. 14, Jaswal Complex, Kakka Village Road, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.66	0.6	0	0.6	Sutlej	Captive ETP	Complying	NA	No	NA	NA
133	Balarama Tex Ltd Eariler known as Gangesh Cottex, B/s Yogi Dyeing, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.495	0.45	0	0.45	Sutlej	Captive ETP	Complying	NA	No	NA	NA
134	Berry Scientific Dyers, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.33	0.3	0	0.3	Sutlej	Captive ETP	Complying	NA	No	NA	NA
135	C.K. Processors, Jaswal Complex, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
136	Color Fab (Leassee of Shri Rameshwar Processors), Plot No. B-31/2249/2-A/1, Jaswal Complex, Kakka Village Road, Tajpur Road, Ludhiana .	S	R	With consent	With authorization	0.605	0.55	0	0.55	Sutlej	Captive ETP	Complying	NA	No	NA	NA

137	Deepak Dyeing House (M/s Ghip's Processors) Tajpur Road, Near Jaswal Dyeing Complex, Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
138	Famina Fabrics, Plot no. 37, Jaswal Complex, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
139	Friends Finishers, Tajpur Road, Opp. Central Jail, Ludhiana	S	R	With consent	With authorization	0.165	0.15	0	0.15	Sutlej	Captive ETP	Complying	NA	No	NA	NA
140	G.K. Finishing, Mata Karam Kaur Colony, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
141	G.P. Dyeing, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
142	G.R. Woollen Mills, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.396	0.36	0	0.36	Sutlej	Captive ETP	Complying	NA	No	NA	NA
143	Gupta Shivam Dyeing Processors, Ajay Nagar, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.286	0.26	0	0.26	Sutlej	Captive ETP	Complying	NA	No	NA	NA
144	Gupta Shivam Processors (Previously known as M/s Shree Balaji Dyeing & Finishing Mill), 137, Mahavir Jain Colony, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.165	0.15	0	0.15	Sutlej	Captive ETP	Complying	NA	No	NA	NA

145	Handa Processors, St. No. 7, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.1045	0.095	0	0.095	Sutlej	Captive ETP	Not complying	SCN issued with an opportunity of personal hearing before the SEE, Zonal office-II, Ludhiana on 14.09.2018	No	NA	NA
146	Hindustan Finishers, (Old M/s Hari Om Processors)), Tajpur Road, Opp. Central Jail, Ludhiana	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
147	Hindustan Processors, Mahavir Jain Colony, Opp. Octrio Post, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.33	0.3	0	0.3	Sutlej	Captive ETP	Complying	NA	No	NA	NA
148	Hinglaj Processors, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
149	Indoman Dyeing Works, Opp. Central Jail Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.0825	0.075	0	0.075	Sutlej	Captive ETP	Complying	NA	No	NA	NA
150	Jai Maa Dyeing & Finishing Mills 485, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.0825	0.075	0	0.075	Sutlej	Captive ETP	Complying	NA	No	NA	NA

151	Jai Shree Radhay Industry, St. No. 03, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
152	Jai Shree Ram Enterprises, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
153	Ascent Global Textrade, 220-C, Village Tajpur Bet, PO Mundian Kalan, New Ram Sarup Dairy, Ludhiana	S	R	With consent	Without authorization	0.0022	0.002	0	0.002	Sutlej	Captive ETP	Complying	NA	No	NA	NA
154	Jarnail Army Store, St. No. 4, Iqbal Nagar, Tajpur Road, Ludhiana.	S	O	With consent	Without authorization	0.0107	0.01	0	0.01	Sutlej	Captive ETP	Complying	NA	No	NA	NA
155	Jasbir Dyeing House, 2250/3 K, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.11	0.1	0	0.1	Sutlej	Captive ETP	Complying	NA	No	NA	NA
156	Jindal Finishing Works, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
157	Jiwan Risham Processors, Vill. Bhamian Kalan Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.0132	0.012	0	0.012	Sutlej	Captive ETP	Complying	NA	No	NA	NA

158	Gopal Ji Garments Pvt. Ltd., formally known as JMG Garments, Mahavir Dyeing Complex, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
159	K.B. Dyeing, Street No. 5, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.11	0.1	0	0.1	Sutlej	Captive ETP	Complying	NA	No	NA	NA
160	Kairavi Processors, Plot no.98-99, Mahavir Colony, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
161	Kay Raj Poddar & Co., Mahavir Jain Colony, Tajpur Road, Ludhiana.	S	R	With consent	Without authorization	0.088	0.08	0	0.08	Sutlej	Captive ETP	Complying	NA	No	NA	NA
162	Khanna Processors, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.495	0.45	0	0.45	Sutlej	Captive ETP	Complying	NA	No	NA	NA
163	Koutton Dyeing HouseJaswal Complex, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.55	0.5	0	0.5	Sutlej	Captive ETP	Complying	NA	No	NA	NA
164	Krishna Industries (M/s Krishna Dyieng), 2220/10-A, Shiv Mandir St., Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.33	0.3	0	0.3	Sutlej	Captive ETP	Complying	NA	No	NA	NA

165	Krishna Processors, B-XXXI, Kullewal, Mahavir Complex, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.11	0.1	0	0.1	Sutlej	Captive ETP	Complying	NA	No	NA	NA
166	Lovely Industries, Near Amrit Dharam Kanda, New Puli, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.88	0.8	0	0.8	Sutlej	Captive ETP	Not Complying	Report sent to Competent Authority and action under process	No	NA	NA
167	M.R. Dyeing & Finishing Mills, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
168	M.Tech Processors, Mahavir Jain Colony, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.385	0.35	0	0.35	Sutlej	Captive ETP	Complying	NA	No	NA	NA
169	Madhok Scientific Dyers Plot no. 104, Mahavir Jain Colony, Tajpur Road, Ldh	S	R	With consent	With authorization	0.2585	0.235	0	0.235	Sutlej	Captive ETP	Complying	NA	No	NA	NA
170	Mahabir Dyeing House, 2279/1, Vishwakarma Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.429	0.39	0	0.39	Sutlej	Captive ETP	Complying	NA	No	NA	NA
171	Maharaja Dyeing & Finishing Mills, Mahavir Complex, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.616	0.56	0	0.56	Sutlej	Captive ETP	Complying	NA	No	NA	NA

172	Mahavir Dyeing & Finishing Industries, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	1.1	1	0	1	Sutlej	Captive ETP	Complying	NA	No	NA	NA
173	Megha Processors, Mahavir Dyeing Complex, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.33	0.3	0	0.3	Sutlej	Captive ETP	Complying	NA	No	NA	NA
174	Mohinder Dyeing & Finishing House, Mahavir Colony, Kakka Road, Near Makkar Textile, Tajpur Road, Ludhiana.	S	R	With consent	Without authorization	0.275	0.25	0	0.25	Sutlej	Captive ETP	Not Complying	show cause notice issued	No	NA	NA
175	N.V. Processors (Eariler known as Veer Garment), 117, Mahavir Jain Colony, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.4565	0.415	0	0.415	Sutlej	Captive ETP	Complying	NA	No	NA	NA
176	New Amba Dyeing (Unit No. - 2), Mata Karam Kaur Colony, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.176	0.16	0	0.16	Sutlej	Captive ETP	Complying	NA	No	NA	NA
177	New Amba Dyeing, Mata Karam Kaur Colony, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.176	0.16	0	0.16	Sutlej	Captive ETP	Not Complying	Report sent to Competent Authority and action under process	No	NA	NA

178	Paras Knit, 2220-2C/1, Mahavir Dyeing Complex, Tajpur Road,	S	R	With consent	With authorization	0.33	0.3	0	0.3	Sutlej	Captive ETP	Complying	NA	No	NA	NA
179	Prabhat Dyeing & Finishing Industry, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
180	Parmod Dyeing, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.0495	0.045	0	0.045	Sutlej	Captive ETP	Complying	NA	No	NA	NA
181	Ponahari Dyeing Works, Jaswal complex, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
182	Prem Industries, Mahavir Jain Complex, Mandir Wali Gali, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.495	0.45	0	0.45	Sutlej	Captive ETP	Complying	NA	No	NA	NA
183	R.K. Finishing & Processing, Near Shiv Mandir, Opp. Central Jail, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.1045	0.095	0	0.095	Sutlej	Captive ETP	Complying	NA	No	NA	NA
184	R.K. Washing, Plot no.22, Tajpur Road, Mahavir Colony, Ludhiana	S	O	With consent	Without authorization	0.107	0.1	0	0.1	Sutlej	Captive ETP	Not Complying	Report sent to Competent Authority and action under process	No	NA	NA
185	R.S. Dyeing, Geeta Nagar, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.165	0.15	0	0.15	Sutlej	Captive ETP	Complying	NA	No	NA	NA

186	Rasila Processors, 13118, Mata Karam Kaur Colony, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.044	0.04	0	0.04	Sutlej	Captive ETP	Complying	NA	No	NA	NA
187	Royal Processors, Formly Known as Narang Scientific Dyers, 2220/8, Mahavir Dyeing Complex, Opp. Central Jail, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.11	0.1	0	0.1	Sutlej	Captive ETP	Complying	NA	No	NA	NA
188	S.K. Dyeing & Finishing, Plot No.1, Mahavir Jain Industrial complex, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.33	0.3	0	0.3	Sutlej	Captive ETP	Complying	NA	No	NA	NA
189	S.K. Industries, 2250/30-A, Geeta Nagar, Tajpur Road, Ludhiana (Earlier Paramount Dye-Tech)	S	R	With consent	With authorization	0.3025	0.275	0	0.275	Sutlej	Captive ETP	Complying	NA	No	NA	NA
190	Saral Dyers, Mahavir Colony, Tajpur Road, Ludhiana (Old Name Stylo Colour Art)	S	R	With consent	With authorization	0.55	0.5	0	0.5	Sutlej	Captive ETP	Complying	NA	No	NA	NA
191	Sehyog Enterprises (Unit-II), Vill. Bhamian Kalan, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
192	Shoshi Exports, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.0495	0.045	0	0.045	Sutlej	Captive ETP	Complying	NA	No	NA	NA

193	Shree Balaji Processors, Opp. Central Jail, Tajpur Road, Ludhiana	M	R	With consent	With authorization	0.6292	0.572	0	0.572	Sutlej	Captive ETP	Complying	NA	No	NA	NA
194	Sunrise Dyers & Processors Pvt. Ltd., (Earlier Known as Quality Dyeing & Process Mills), B-XXX-2220/8A, Opp. Central Jail, Tajpur Road, Ludhiana	M	R	With consent	With authorization	0.66	0.6	0	0.6	Sutlej	Captive ETP	Complying	NA	No	NA	NA
195	Techno Knit Craft, Jaiswal Complex, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.66	0.6	0	0.6	Sutlej	Captive ETP	Complying	NA	No	NA	NA
196	Vidhata Processors (Earlier Known as G.M.G. Processors), Dyeing Complex, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
197	Vohra Dyeing Factory, Jaswal Complex, Plot No. 10, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
198	Webson Hosiery Factory, (Previously Known as: Shiv Processors), Jaswal Complex, Tajpur Road, Ludhiana	S	R	With consent	With authorization	1.1	1	0	1	Sutlej	Captive ETP	Not Complying	Show cause notice issued and Bank Guarantee Rs. 50,000/- encashed	No	NA	NA
199	Woolco Dyers, St. No. 6, Geeta Nagar, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.165	0.15	0	0.15	Sutlej	Captive ETP	Complying	NA	No	NA	NA

200	Yogi Dyeing (Previously name as Yogi Dyeing Ltd.),86-88, Mahavir Indl. Colony, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.55	0.5	0	0.5	Sutlej	Captive ETP	Complying	NA	No	NA	NA
201	Yogita Collection, Mahavir Jain Complex, Opp. Central Jail, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.77	0.7	0	0.7	Sutlej	Captive ETP	Complying	NA	No	NA	NA
202	Shiv Shakti Dyeing, Kakka Road, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
203	Fashion Fast (Earlier Known as Sparsh Creations), Geeta Colony, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.0385	0.035	0	0.035	Sutlej	Captive ETP	Complying	NA	No	NA	NA
204	Rama Krishna Dyeing, Kakka Road,Opp Central Jail,Tajpur Road,Ludhiana	S	R	With consent	With authorization	0.495	0.45	0	0.45	Sutlej	Captive ETP	Complying	NA	No	NA	NA
205	Royal Coating Plot No-53, Jaswal Complex, Tajpur Road, Ludhiana	S	R	With consent	Without authorization	0.11	0.1	0	0.1	Sutlej	Captive ETP	Complying	NA	No	NA	NA
206	New Ashok Dyeing Factory, #181, Jaiswal Complex, Tajpur Road, Ludhiana	S	R	Without consent	Without authorization	0.165	0.15	0	0.15	Sutlej	Captive ETP	Complying	NA	No	NA	NA
207	Styllia Garments, Tajpur Road, Near Central Jail, Kakka Road, Ludhiana.	S	R	With consent	Without authorization	0.11	0.1	0	0.1	Sutlej	Captive ETP	Not Complying	Report sent to Compete nt Authority	No	NA	NA

													and action under process			
208	Muskan Processor, Mahavir Jain Colony, Opp Central Jail Tajpur Road, Ludhiana	S	R	With consent	Without authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	not Complying	Show cause notice issued and directions u/s 33-A of Water Act, 1974 was confirme d	No	NA	NA
209	Shiv Kirpa International, Mahavir Jain Colony, Opp. Central Jail, Tajpur Road, Ludhiana	S	O	With consent	Without authorization	0.00535	0.005	0	0.005	Sutlej	Captive ETP	Complying	NA	No	NA	NA
210	N.K. Washing, Guru Nanak Nagar, Bhamian Kalan, Tajpur Road, Ludhiana	S	R	With consent	With authorization	0.033	0.03	0	0.03	Sutlej	Captive ETP	Complying	NA	No	NA	NA
211	Flora Dyeing, Jaswal Complex, Opp. Central Jail, Tajpur Road, Ludhiana	S	R	With consent	Without authorization	0.1375	0.125	0	0.125	Sutlej	Captive ETP	Complying	NA	No	NA	NA
212	Gurmehar International Multi trades Pvt Ltd. Plot No-B-31- 2220/9E/6A, Mahavir Jain Colony, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.022	0.02	0	0.02	Sutlej	Captive ETP	Complying	NA	No	NA	NA

213	Lotus Clothing Co., Opp. Central Jail, Tajpur Road, Ludhiana.	S	R	With consent	With authorization	0.1925	0.175	0	0.175	Sutlej	Captive ETP	Complying	NA	No	NA	NA
214	Mahadev Washing, Tajpur Road, Opp. Central Jail, Mandir Wali Gali, Ludhiana	S	O	With consent	Without authorization	0.0535	0.05	0	0.05	Sutlej	Captive ETP	Complying	NA	No	NA	NA
215	V.R. Processors, Mahavir Jain Colony, Tajpur Road, Ludhiana	S	R	With consent	Without authorization	0.055	0.05	0	0.05	Sutlej	Captive ETP	Complying	NA	No	NA	NA
216	Komal Dyers, B-31, Preet Nagar, Kakka Road, Jamalpur Awana, Ludhiana	S	R	With consent	With authorization	0.55	0.5	0	0.5	Sutlej	Captive ETP	Complying	NA	No	NA	NA
217	Ganga Dyeing & Processors, Bhamian Kalan, Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
218	Neel Kanth Processors, Plot No. 27, Mahavir Jain Colony, Tajpur Road, Ludhiana	S	O	With consent	Without authorization	0.00963	0.009	0	0.009	Sutlej	Captive ETP	Complying	NA	No	NA	NA
219	Adinath Dyeing & Finishing Mills, Dyeing Complex, Bahadurke Road, Ludhiana	M	R	With consent	With authorization	0.66	0.6	0	0.6	Sutlej	Captive ETP	Complying	NA	No	NA	NA
220	M/s Sangeet Scientific Dyers (formerly known as Arihant Scientific Dyers), Dyeing Complex, Bahadurke Road, Ludhiana.	S	R	With consent	With authorization	0.209	0.19	0	0.19	Sutlej	Captive ETP	Complying	NA	No	NA	NA
221	Atam Dyeing & Finishing Mills, Bahadurke Road, Ludhiana	S	R	With consent	With authorization	0.352	0.32	0	0.32	Sutlej	Captive ETP	Not Complying	show cause notice issued	No	NA	NA

222	Chopra Processor, Bahadur Ke Road, Dyeing Complex, Ludhiana	S	O	With consent	With authorization	0.0856	0.08	0	0.08	Sutlej	Captive ETP	Complying	NA	No	NA	NA
223	Eakta Dyeing & Finishing Mill, Bahadurke Road, Dyeing Complex, Industrial Zone, Ludhiana	S	R	With consent	With authorization	1.32	1.2	0	1.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
224	Friends Printers, E-10/4091, Banda Bahadur Nagar, Bahadur Ke Road, Ludhiana	S	O	With consent	With authorization	0.14445	0.135	0	0.135	Sutlej	Captive ETP	Complying	NA	No	NA	NA
225	G.K. Jain Hosiery, Sharman Enclave, Bahadurke Road, Ludhiana	S	O	With consent	Without authorization	0.01926	0.018	0	0.018	Sutlej	Captive ETP	Complying	NA	No	NA	NA
226	Grace Tubler, Gali No. 7, Banda Bahadur Nagar, Bahadurke Road, Ludhiana	S	O	With consent	With authorization	0.0856	0.08	0	0.08	Sutlej	Captive ETP	Complying	NA	No	NA	NA
227	Jain Shawls, Bahadurke Road, Ldh	S	R	With consent	With authorization	0.044	0.04	0	0.04	Sutlej	Captive ETP	Complying	NA	No	NA	NA
228	Krishna Print & Processors, E/10/3925, St.No. 6, Banda Bahadur Nagar, Bahadur Ke Road, Ludhiana	S	O	With consent	With authorization	0.14445	0.135	0	0.135	Sutlej	Captive ETP	Complying	NA	No	NA	NA
229	Oswal Dyeing & Finishing Mills, Vill. Karabara, Dyeing Complex, Bahadurke Road, Ludhiana	S	R	With consent	With authorization	0.99	0.9	0	0.9	Sutlej	Captive ETP	Complying	NA	No	NA	NA

230	P.I. Cottex, 741/7-C, BXXXII, Azad Nagar, Bahadurke Road, Ludhiana	S	R	With consent	With authorization	0.99	0.9	0	0.9	Sutlej	Captive ETP	Complying	NA	No	NA	NA
231	Polka Clothing CO.(Earlier Known as M/s Polka Knitters, Bahadurke Road, Near Baldev Propert Dealer, Ludhiana	S	O	With consent	With authorization	0.002675	0.0025	0	0.0025	Sutlej	Captive ETP	Complying	NA	No	NA	NA
232	Sangat Dyeing House, Bahadur Ke Road, Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
233	Shri Balaji Finishing Mills (Formerly Shri Roop Dyeing & Finishing Mills, Dyeing Complex, Bahadurke Road, Ludhiana	S	R	With consent	With authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
234	The Navkar Dyeing, Bahadurke Road, Dyeing Complex, Ludhiana	S	R	With consent	With authorization	0.11	0.1	0	0.1	Sutlej	Captive ETP	Complying	NA	No	NA	NA
235	Top Gear Garments (Unit-II), B-XXXII, E-14/1675/1, Bahadurke Road, Ludhiana	S	O	With consent	Without authorization	0.006848	0.0064	0	0.0064	Sutlej	Captive ETP	Complying	NA	No	NA	NA
236	Triveni Processors, Bahadurke Road, Ludhiana	S	R	With consent	With authorization	0.198	0.18	0	0.18	Sutlej	Captive ETP	Complying	NA	No	NA	NA

237	Vinay Knitwears, Sharmar Ratan Enclave, Near Octroi Post, Bahadurke Road, Ludhiana	S	O	With consent	With authorization	0.00749	0.007	0	0.007	Sutlej	Captive ETP	Complying	NA	No	NA	NA
238	J M D Ganesh Enterprises, B/32-736/9, Dyeing Complex, Bahadur-K-Road, Ludhiana	S	O	With consent	Without authorization	0.01605	0.015	0	0.015	Sutlej	Captive ETP	Not Complying	Report sent to Competent Authority and action under process	No	NA	NA
239	Ranbir Enterprises Pvt. Ltd. (Opc), Dyeing Complex, Bahadurke Road,	S	R	Without consent	Without authorization	0.0935	0.085	0	0.085	Sutlej	Captive ETP	Complying	NA	No	NA	NA
240	Viney Knitwears Pvt. Ltd. (Unit-II), E-14/736/2-B, Dyeing Complex, Bahadurke Road, Ludhiana	S	R	Without consent	Without authorization	0.0077	0.007	0	0.007	Sutlej	Captive ETP	Complying	NA	No	NA	NA
241	Top Gear Fashion, B-XXXII, E-14/1679, Bahadurke Road, Vill. Taraf Karaba, Hadbast no. 161, Ludhiana	L	R	Without consent	Without authorization	0.176	0.16	0	0.16	Sutlej	Captive ETP	Complying	NA	No	NA	NA
242	Navkar Dyeing and Finishing Mills, B-32-E-14-3295, Dyeing Complex, Bahadurke Road, Ludhiana	S	R	With consent	Without authorization	0.1925	0.175	0	0.175	Sutlej	Captive ETP	Complying	NA	No	NA	NA

243	Decent Finishers, B-XXXII-E-14-2296/3, DYEING COMPLEX, BAHADUR KE ROAD, LUDHIANA.	S	R	Without consent	Without authorization	0.22	0.2	0	0.2	Sutlej	Captive ETP	Complying	NA	No	NA	NA
244	Girnar Hosiery Works (Regd.), G.T. Road (West) , Ludhiana	S	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
245	Ashwani Screen Printers, Dyeing Complex, B.ke Road, Ludhiana	S	O	With consent	Without authorization	0.00107	0.001	0	0.001	Sutlej	Captive ETP	Complying	NA	No	NA	NA
246	Gian Chand & Sons, Vill. Bajra , Rahon Road, Ludhiana	S	R	With consent	With authorization	0.33	0.3	0	0.3	Sutlej	Captive ETP	Complying	NA	No	NA	NA
247	Vallabh fabriks Ltd., B-XXXII-1429, Gehlewal, Rahon Road, Ludhiana	S	O	With consent	With authorization	0.01926	0.018	0	0.018	Sutlej	Captive ETP	Complying	NA	No	NA	NA
248	Shree Krishna Industries (M/s Kaushalya Enterprises)Vill. Bajra , Distt, Ludhiana	S	R	With consent	With authorization	0.11	0.1	0	0.1	Sutlej	Captive ETP	Complying	NA	No	NA	NA
249	Beas Scientific Dyers, New Shakti Nagar, G.T. Road, Ludhiana	S	R	With consent	With authorization	0.352	0.32	0	0.32	Sutlej	Captive ETP	Complying	NA	No	NA	NA
250	H.P. Bleaching Works,New Shakti Nagar, Jalandhar Bye Pass Road, Ludhiana	S	R	With consent	With authorization	0.154	0.14	0	0.14	Sutlej	Captive ETP	Complying	NA	No	NA	NA
251	M.M. Dyeing & Finishing Mills Pvt. Ltd, Jassian Road, G.T. Road (West), Ludhiana.	S	R	With consent	With authorization	0.275	0.25	0	0.25	Sutlej	Captive ETP	Complying	NA	No	NA	NA

252	Nageshwar Printers, Gali no.2, Bast Jodhewal, Ludhiana	S	R	With consent	With authorization	0.11	0.1	0	0.1	Sutlej	Captive ETP	Complying	NA	No	NA	NA
253	New Bombay Dyeing & Bleaching House, G.T. Road (West), Near Jalandhar Bye Pass, Ludhiana.	S	R	With consent	With authorization	0.132	0.12	0	0.12	Sutlej	Captive ETP	Complying	NA	No	NA	NA
254	S.T. Dyieng, B-XXXIII-330, G.T Road (West), Jalandhar Bye Pass, Ludhiana	S	R	With consent	With authorization	0.308	0.28	0	0.28	Sutlej	Captive ETP	Complying	NA	No	NA	NA
255	Sahib Synthetics, G.T. Road, West, Vill. Bhora, Near Jassian Chowk, Jalandhar Bye Pass, Ludhiana (M)	S	R	With consent	With authorization	0.242	0.22	0	0.22	Sutlej	Captive ETP	Complying	NA	No	NA	NA
256	Venus Cotsyn India Ltd, G.T. Road, Near Jalandhar Bye Pass, Ludhiana. (L)	S	R	With consent	With authorization	2.0295	1.845	0	1.845	Sutlej	Captive ETP	Complying	NA	No	NA	NA
257	Dixon Knitwears, Opp. Amaltas Hotel, G.T. Road, (West), Ludhiana.	S	O	With consent	With authorization	0.02568	0.024	0	0.024	Sutlej	Captive ETP	Complying	NA	No	NA	NA
258	Glaze Garments (India) Limited, Vill. Hussainpura, Opp, Hotel Amaltas, G.T. Road (West), Ludhiana.	S	O	With consent	With authorization	0.02675	0.025	0	0.025	Sutlej	Captive ETP	Complying	NA	No	NA	NA
259	Octave Clothing, B-33, 325/5, G.T. Road (West), Near Jalandhar Bye Pass, Ludhiana.	S	O	With consent	With authorization	0.02461	0.023	0	0.023	Sutlej	Captive ETP	Not Complying	Report sent to competent Authority and action	No	NA	NA

													under process			
260	Venus Garments, (India) (Unit-II), G.T. Road (West), Ludhiana.	S	O	With consent	Without authorization	0.01498	0.014	0	0.014	Sutlej	Captive ETP	Complying	NA	No	NA	NA
261	Nishu Enterprises, Backside Nagesh Hosiery, Bhora Vill. G.T. Road, Ludhiana	S	O	With consent	Without authorization	0.001177	0.0011	0	0.0011	Sutlej	Captive ETP	Complying	NA	No	NA	NA
262	Sai Motor, Gill Road, Ludhiana	S	O	Without consent	Without authorization	0.00856	0.008	0	0.008	Sutlej	Not provided	Not complying	Direction issued u/s 33-A of Water Act, 1974 for its closure	No	NA	NA
263	Divyam Printers, Near Amul Milk Store, Bhattian Road, Ludhiana	S	O	Without consent	Without authorization	0.00535	0.005	0	0.005	Sutlej	Not provided	Not complying	Direction issued u/s 33-A of Water Act, 1974 for its closure	No	NA	NA
264	Shankar Garment C/o Mrs. Kiran Gupta, Mundian kalan, Ludhiana.	S	O	Without consent	Without authorization	0.00535	0.005	0	0.005	Sutlej	Not provided	Not complying	Direction issued u/s 33-A of Water Act, 1974 for its closure	No	NA	NA
265	M/s Arunav Printers, 4332, St. No. 1, Jujhar Singh Nagar, Gehlewal, Rahon Road, Ludhiana	S	O	Without consent	Without authorization	0.00642	0.006	0	0.006	Sutlej	Not provided	Not complying	Report sent to Higher Authorities	No	NA	NA
266	M/s A.D. Clothing, #1220C, Jujhar Singh Nagar, Gehlewal, Rahon	S	O	Without consent	Without authorization	0.00642	0.006	0	0.006	Sutlej	Not provided	Not complying	Report sent to Higher Authorities	No	NA	NA

	Road, Ludhiana.																
267	M/s A.P. Knitter, B-XXXII, 1093/3A/1, St. no. 9, Krishna Colony, Rahon Road, Ludhiana.	S	O	Without consent	Without authorization	0.00535	0.005	0	0.005	Sutlej	Not provided	Not complying	Report sent to Higher Authorities	No	NA	NA	
268	M/s Mamta Processers, Street No. 1, New Preet Nagar, Tibba Road, Ludhiana	S	O	Without consent	Without authorization	0.00535	0.005	0	0.005	Sutlej	Not provided	Not complying	Direction issued u/s 33-A of Water Act, 1974 for its closure	No	NA	NA	
269	M/s Shankeshvar Enterprises, B-XXX-11-E9/1395, Kali Sarak, Ludhiana	S	O	Without consent	Without authorization	0.00856	0.008	0	0.008	Sutlej	Not provided	Not complying	Report sent to Higher Authorities	No	NA	NA	
270	M/s Alliance Hosiery Mills, 4325, St. No. 1, Jujhar Singh Nagar, Gehlewal, Rahon Road, Ludhiana.	S	O	Without consent	Without authorization	0.00642	0.006	0	0.006	Sutlej	Not provided	Not complying	Report sent to Higher Authorities	No	NA	NA	
271	M/s R.P. Knitweaves, Krishna Colony, St. No. 9, Rahon Road, Ludhiana.	S	O	Without consent	Without authorization	0.00642	0.006	0	0.006	Sutlej	Not provided	Not complying	Report sent to Higher Authorities	No	NA	NA	
272	M/s Bonny Bulking Works, Krishna Colony. St No. 9, Opp. Sagar Knitwear, Rahon Road, Ludhiana.	S	O	Without consent	Without authorization	0.00535	0.005	0	0.005	Sutlej	Not provided	Not complying	Report sent to Higher Authorities	No	NA	NA	

273	A.K.C. Motors Pvt. Ltd, VPO Gahaur, Near Kothari Resorts, Ferozepur Road, Ludhiana.	S	O	With consent	Without authorization	0.00374 5	0.0035	0	0.0035	Sutlej	Captive ETP	Complying	NA	No	NA	NA
274	Dada Motors, Near Octroi Post, G.T. Road (West), Jalandhar Bye Pass, Ludhiana.	S	O	With consent	With authorization	0.00535	0.005	0	0.005	Sutlej	Captive ETP	Complying	NA	No	NA	NA
275	Dada Motors, Shakti Nagar, Rahon Road, Ludhiana.	S	O	With consent	Without authorization	0.00535	0.005	0	0.005	Sutlej	Captive ETP	Complying	NA	No	NA	NA
276	Godawari Motors Pvt. Ltd, Ayali Chowk, Ferozepur Road, Ludhiana.	S	O	With consent	With authorization	0.00053 5	0.0005	0	0.0005	Sutlej	Captive ETP	Complying	NA	No	NA	NA
277	Mahindra First Choice Services Ltd, Plot No. B#XX11-3727 & 3728, Gill Road, Near ITI, Ludhiana.	S	O	With consent	Without authorization	0.00535	0.005	0	0.005	Sutlej	Captive ETP	Complying	NA	No	NA	NA
278	Sarvpriya Autos (P) Ltd., Ferozepur Road, Ludhiana	S	O	With consent	With authorization	0.01016 5	0.0095	0	0.0095	Sutlej	Captive ETP	Complying	NA	No	NA	NA
279	Swani Motor Service Pvt. Ltd., Near Canal Bridge, Gill Road, Ludhiana	S	O	With consent	With authorization	0.00535	0.005	0	0.005	Sutlej	Captive ETP	Complying	NA	No	NA	NA

280	Krishna Automobiles, Plot no. 1586/3, Mohalla Anandpur Basti Jodhewal, Chownk, Bye Pass Road, Ludhiana	S	O	With consent	With authorization	0.00288 9	0.0027	0	0.0027	Sutlej	Captive ETP	Complying	NA	No	NA	NA
281	Northern Motors Pvt. Ltd., G.T. Road, Opp. Hotel Amaltas, Near Octroi Post, Ludhiana	S	O	With consent	With authorization	0.0107	0.01	0	0.01	Sutlej	Captive ETP	Complying	NA	No	NA	NA
282	Sarvpriya Autos (P) Ltd., Opp. Grain Market, Near Gill Road, Ludhiana	S	O	Without consent	Without authorization	0.00085 6	0.0008	0	0.0008	Sutlej	Captive ETP	Complying	NA	No	NA	NA
283	Northern Railway, Diesel Locomotive Shed, Diesel Locomotive Shed, Ludhiana	M	O	With consent	Without authorization	0.01605	0.015	0	0.015	Sutlej	Captive ETP	Complying	NA	No	NA	NA
284	The Ludhiana Dist. Co-op., Milk Producers Union Ltd., Verka Milk Plant Ferozepur Road, Ludhiana.	L	R	With consent	With authorization	0.44	0.4	0	0.4	Sutlej	Captive ETP	Complying	NA	No	NA	NA
285	Punjab Genco Limited, Halbowal Dairy Complex, Ludhiana.	M	R	With consent	Without authorization	0.15515	0.145	0	0.145	Sutlej	Captive ETP	Not complying	Show cause notice issued	No	NA	NA
286	M.P. Gogna & Co. F3/2, Opposite Green Land Public School, New Ashok Nagarm Salim Tabri, Near Jalandhar Bypass, Ludhiana	S	O	With consent	Without authorization	0.00267 5	0.0025	0	0.0025	Sutlej	Captive ETP	Complying	NA	No	NA	NA
287	Ansh Processors, B-	S	O	With consent	With authorization	0.107	0.1	0	0.1	Sutlej	Captive	Complying	NA	No	NA	NA

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	32-1407, Grewal Colony, Noorwala Road, Ludhiana.										ETP					
288	Nagesh Knitwears, Vill. Bhaura, G.T.Road(West), Ludhiana.	L	O	With consent	With authorization	0.02675	0.025	0	0.025	Sutlej	Captive ETP	Complying	NA	No	NA	NA
289	R.K. Arts, Plot no. 13-B-E-10/1116, Basant Vihar, Ext. Noorwala Road, Ludhiana	S	O	With consent	Without authorization	0.023968	0.0224	0	0.0224	Sutlej	Captive ETP	Complying	NA	No	NA	NA
290	Ram Dyeing, Near Radha Swami Satsang House, Tibba Road, Ludhiana.	S	R	With consent	Without authorization	0.00535	0.005	0	0.005	Sutlej	Captive ETP	Not Complying	Report sent to the competent Authority and action under process	No	NA	NA
291	Addonz, BXXX11-1220, B-A(4298), Jujhar Singh Nagar, St. no. 1, Gehlewal, Ludhiana.	S	o	Without consent	Without authorization	0.00642	0.006	0	0.006	Sutlej	Not provided	Not Complying	Notice u/s 33-A of Water Act, 1974 issued with an opportunity of personal hearing before the Chief Environmental Engineer, Ludhiana on 21.08.2018.	No	NA	NA

292	Aggarwal Scientific Dyers D-324, Phase-VIII, Focal Point, Ludhiana	S	R	With consent	With authorization	0.4716	0.4	0	0.4	Sutlej	Captive ETP	C	-	No	-	-
293	Amar Industries Limited C-258, Focal Point, Phase-8, Ludhiana	S	R	With consent	With authorization	0.71	0.55	0	0.55	Sutlej	Captive ETP	C	-	No	-	-
294	Arora Knit Fab (P) Ltd. HA-51-52-53, Phase-6, Focal Point Ludhiana	S	R	With consent	With authorization	0.375	0.24	0	0.24	Sutlej	Captive ETP	C	-	No	-	-
295	B.M.Processors E-674, Phase-8, Focal Point, Ludhiana.	S	R	With consent	With authorization	0.1627	0.16	0	0.16	Sutlej	Captive ETP	C	-	No	-	-
296	Bhasin Industries, E-751,752 & F-325-326, Phase-8, Focal Point, Ludhiana	S	R	With consent	With authorization	0.26	0.18	0	0.18	Sutlej	Captive ETP	C	-	No	-	-
297	Centex International Pvt. Ltd., Sua Road, Village Gobindgarh, Adj. Focal Point, Phase-VII, Ludhiana.	S	R	With consent	With authorization	1.12	0.9	0	0.9	Sutlej	Captive ETP	C	-	No	-	-
298	Jagdambay Spn.& Weaving Mills (Dyeing) H.A-56, Phase-6, Focal Point, Ludhiana	S	R	With consent	With authorization	0.03	0.025	0	0.025	Sutlej	Captive ETP	C	-	No	-	-
299	Dashmesh Weaving & Dyeing Mills P. Ltd., C-193/A, Focal Point, phase-6, Ludhiana.	L	R	With consent	With authorization	1.725	1.6	0	1.6	Sutlej	Captive ETP	C	-	No	-	-

300	Davinder Sandhu Impex Ltd., D-340,D-294, C-292, Phase-8, Focal Point, Ludhiana	M	R	With consent	With authorization	1.106	0.9	0	0.9	Sutlej	Captive ETP	C	-	No	-	-
301	Deluxe fabrics, HB-1 & 2, Focal Point, Phase-VI, Ludhiana	S	R	With consent	With authorization	0.7468	0.6	0	0.6	Sutlej	Captive ETP	C	-	No	-	-
302	Dhawan Processors E-669 & 670, Focal Point, Phase-8, Ludhiana	S	R	With consent	With authorization	0.707	0.45	0	0.45	Sutlej	Captive ETP	C	-	No	-	-
303	Ganpati Industry, D-355,Focal Point, Phase-8, Ludhiana	S	R	With consent	With authorization	1.053	0.8	0	0.8	Sutlej	Captive ETP	C	-	No	-	-
304	Geesun (India) Inc. Previously: T.H.E. Makers Pvt. Ltd. D-263, Focal Point Phase-8 Ludhiana	S	R	With consent	With authorization	0.44	0.35	0	0.35	Sutlej	Captive ETP	C	-	No	-	-
305	Gian Chand Sushil Kumar Jain D-337, Phase-VIII, Focal Point, Ldh	S	R	With consent	With authorization	0.114	0.1	0	0.1	Sutlej	Captive ETP	C	-	No	-	-
306	Golden Enterprises, HC-24, Phase-6, Focal Point, Ludhiana	S	R	With consent	With authorization	0.364	0.35	0	0.35	Sutlej	Captive ETP	C	-	No	-	-
307	Kaur sain Spinning Mills, (Dyeing Unit)A-17, Phase-8, Focal Point, Ludhiana.	M	R	With consent	With authorization	0.78	0.75	0	0.75	Sutlej	Captive ETP	C	-	No	-	-

308	Kudu Knit Process Pvt. Ltd., C-219, Phase-8 Focal Point Ludhiana	M	R	With consent	With authorization	0.963	0.87	0	0.87	Sutlej	Captive ETP	C	-	No	-	-
309	Lovely Fabric B-55, Focal Point, Phase-7, Ludhiana	S	R	With consent	With authorization	0.6545	0.3	0	0.3	Sutlej	Captive ETP	C	-	No	-	-
310	M.K Aggarwal Hosiery Pvt.Ltd., C-234 & D-338, Phase-VIII, Focal Point, Ludhiana.	S	R	With consent	With authorization	0.223	0.2	0	0.2	Sutlej	Captive ETP	NC	Report attached as per Annexure -A	No	-	-
311	Mahadev Processors (Formerly Known as Sarvotam Finishers) E-726, Phase-8, Focal Point, Ludhiana.	S	R	With consent	With authorization	0.321	0.27	0	0.27	Sutlej	Captive ETP	C	-	No	-	-
312	MahaLuxmi Processing House Pvt. Ltd. C-231, Phase-VIII, Focal Point, Ludhiana	L	R	With consent	With authorization	2.27	2	0	2	Sutlej	Captive ETP	C	-	No	-	-
313	Mahesh Dyeing House D-287, Phase-VIII, Focal Point, Ludhiana	S	R	With consent	With authorization	0.276	0.2	0	0.2	Sutlej	Captive ETP	C	-	No	-	-
314	Mega Line Enterprises D-292, Focal Point, Phase-8 Ludhiana	S	R	With consent	With authorization	1.018	0.9	0	0.9	Sutlej	Captive ETP	C	-	No	-	-
315	Nanak Dyeing, D-331, Focal Point, Phase-VIII, Ludhiana	S	R	With consent	With authorization	0.142	0.11	0	0.11	Sutlej	Captive ETP	C	-	No	-	-

316	Nav Durga Dyeing House E-675, Phase-8 Focal Point, Ludhiana	S	R	With consent	With authorization	0.166	0.15	0	0.15	Sutlej	Captive ETP	C	-	No	-	-
317	P.V.M.Enterprises Pvt. Ltd., D-341-342, Phase-8, Focal Point Ludhiana	M	R	With consent	With authorization	0.774	0.69	0	0.69	Sutlej	Captive ETP	C	-	No	-	-
318	Perfect Dyeing & Fin. Inds., C-237,238 & E-685 & E-676 Phase-8, Focal Point, Ludhiana	S	R	With consent	With authorization	0.352	0.25	0	0.25	Sutlej	Captive ETP	C	-	No	-	-
319	Punjab Wool Syndicate, Focal Point, Phase-VI, Ludhiana	S	R	With consent	With authorization	0.039	0.024	0	0.024	Sutlej	Captive ETP	C	-	No	-	-
320	Raghav Industries D-283, Phase-VIII, Focal Point, Ludhiana	S	R	With consent	With authorization	0.67	0.5	0	0.5	Sutlej	Captive ETP	C	-	No	-	-
321	Raghav Woollen Mills (P) Ltd. D-168, Focal point, Phase-6 Ludhiana	S	R	With consent	With authorization	0.068	0.05	0	0.05	Sutlej	Captive ETP	C	-	No	-	-
322	Rainbow Scientific Dyers (Leesee of Roshan Processors C-211, Phase-8 Focal Point, Ludhiana	S	R	With consent	With authorization	1.056	0.96	0	0.96	Sutlej	Captive ETP	C	-	No	-	-
323	Ramal Industries D-265-66, Focal Point, Phase-8, Ludhiana	S	R	With consent	With authorization	1.13	1	0	1	Sutlej	Captive ETP	C	-	No	-	-

324	Ramson Processors E-506, Phase-6 Focal Point, Ludhiana	S	R	With consent	With authorization	0.111	0.0995	0	0.0995	Sutlej	Captive ETP	C	-	No	-	-
325	Ruby Dyeing & Fin. Mills D-277, Phase-8 Focal Point Ludhiana	S	R	With consent	With authorization	0.332	0.275	0	0.275	Sutlej	Captive ETP	C	-	No	-	-
326	S.K. Kohli Textile Industry. E-664, Phase-8, Focal Point, Ludhiana	S	R	With consent	With authorization	0.241	0.21	0	0.21	Sutlej	Captive ETP	NC	Report attached as per Annexure -A	No	-	-
327	S.K. Udyog D-256, Focal Point, Phase-8, Ludhiana	S	R	With consent	With authorization	0.7012	0.15	0	0.15	Sutlej	Captive ETP	C	-	No	-	-
328	S.S Processor F-184, Focal Point, Phase-VIII, Ludhiana	S	R	With consent	With authorization	0.083	0.06	0	0.06	Sutlej	Captive ETP	C	-	No	-	-
329	Samrat Dyeing House D-329, Focal Point, Phase-VIII, Ludhiana	S	R	With consent	With authorization	0.165	0.135	0	0.135	Sutlej	Captive ETP	C	-	No	-	-
330	Sanya Fabrics, F-156, 157, 170, Focal Point, Phase-8, Ludhiana	S	R	With consent	With authorization	0.2509	0.225	0	0.225	Sutlej	Captive ETP	C	-	No	-	-
331	Ess Aar Coating P.Ltd., E-486, Focal Point Phase-6, Ludhiana.	S	R	With consent	With authorization	0.301	0.25	0	0.25	Sutlej	Captive ETP	C	-	No	-	-
332	Shree parshvanth Threads, E-678, Focal Point, Phase-VIII, Ludhiana	S	R	With consent	With authorization	0.07	0.064	0	0.064	Sutlej	Captive ETP	C	-	No	-	-

333	Shyam Texchem Pvt. Ltd., D-228 Phase-7, Focal Point, Ludhiana	S	R	With consent	With authorization	0.805	0.7	0	0.7	Sutlej	Captive ETP	C	-	No	-	-
334	Sky Clothing D-351/351-A, Phase-VIII, Focal Point, Ludhiana	S	R	With consent	With authorization	0.663	0.45	0	0.45	Sutlej	Captive ETP	C	-	No	-	-
335	Supreme Tex Mart Ltd., (Previsouly: Supreme Yarns Ltd.), B-72, Focal Point, Phase-8, Ludhiana.	L	R	With consent	With authorization	1.397	1.2	0	1.2	Sutlej	Captive ETP	C	-	No	-	-
336	Suvidhi Cotsyn, C-189/A & E-450, Phase-6, Focal Point, Ludhaina.	S	R	With consent	With authorization	1.63	1.49	0	1.49	Sutlej	Captive ETP	C	-	No	-	-
337	V.H. Scientific Dyers, D-291, Focal Point, Phase-8, Ludhiana.	S	R	With consent	With authorization	0.685	0.6	0	0.6	Sutlej	Captive ETP	NC	Report attached as per Annexure -A	No	-	-
338	Vardhman Polytex Ltd.(Unit-Vinayak Textile Mills) D-295/1, Phase-8 Focal Point, Ludhaina.	L	R	With consent	With authorization	1.06	0.9	0	0.9	Sutlej	Captive ETP	NC	Report attached as per Annexure -A	No	-	-
339	Vardhman Yarn & Thread Ltd., (Previously Known an Mahavir Spinning Mills Ltd.,(S.Tread U D-295/2, Phase-8, Focal Point, Ludhiana	L	R	With consent	With authorization	0.82	0.55	0	0.55	Sutlej	Captive ETP	C	-	No	-	-

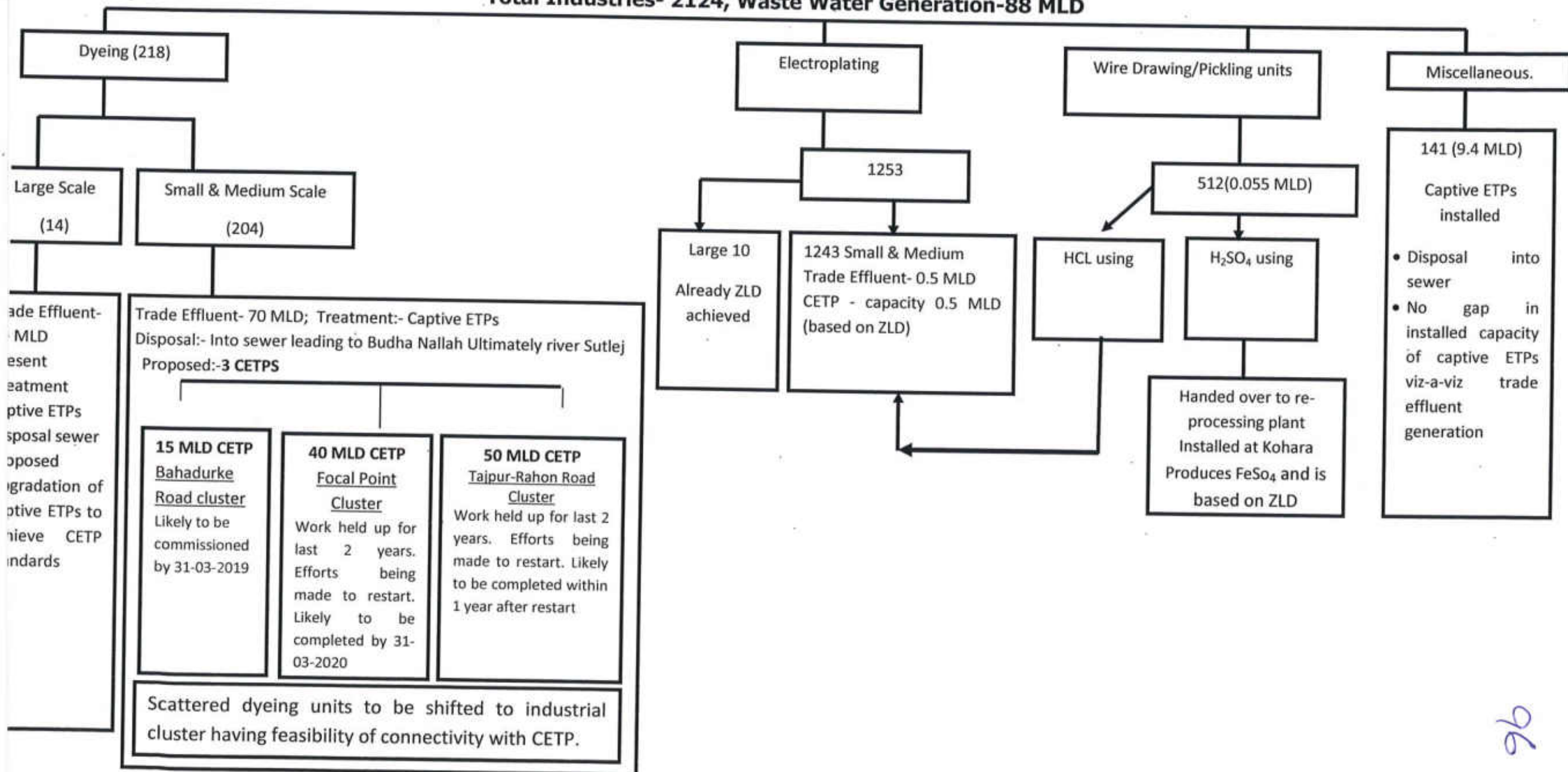
340	Vikas ACS Industries, E-745, Phase-8 Focal Point, Ludhaina.	S	R	With consent	With authorization	0.1715	0.15	0	0.15	Sutlej	Captive ETP	C	-	No	-	-
341	Jain Dyeing Works, HB-14 & 15, Phase-6, Focal Point, Ludhiana.	S	R	With consent	With authorization	0.3	0.275	0	0.275	Sutlej	Captive ETP	C	-	No	-	-
342	Centex Fabrics, Export Unit-II, D-220, Focal Point, Phase-VII, Ludhiana	S	O	With consent	With authorization	0.12	0.1	0	0.1	Sutlej	Captive ETP	C	-	No	-	-
343	Elson Hoisery Mills HD-46, Hoisery Complex, Phase-6, Focal Point Ludhiana.	S	O	With consent	With authorization	0.022	0.02	0	0.02	Sutlej	Captive ETP	C	-	No	-	-
344	Fahrenheit Clothing (India) Pvt. Ltd. C-190, Phase-7, Focal Point, Ludhaina	S	O	With consent	With authorization	0.073	0.05	0	0.05	Sutlej	Captive ETP	C	-	No	-	-
345	Nu-Elson International, HD_45, Focal Point, Phase-VI, Ludhiana	S	O	With consent	With authorization	0.006	0.005	0	0.005	Sutlej	Captive ETP	C	-	No	-	-
346	R.N.Knit Fab. E-449, Phase-6 Focal Point, Ludhaina.	S	O	With consent	With authorization	0.0254	0.022	0	0.022	Sutlej	Captive ETP	C	-	No	-	-
347	Rage Knit, HA-54, Knitwear Complex, Phase-6, Focal Point, Ludhiana.	S	O	With consent	With authorization	0.0087	0.002	0	0.002	Sutlej	Captive ETP	C	-	No	-	-
348	Shingora Textiles Ltd., (Previoulsy Shingora International) HC-27,28,29 & HD-34,43 & 44, Phase-6, Focal Point, Ludhiana	S	O	With consent	With authorization	0.055	0.01	0	0.01	Sutlej	Captive ETP	C	-	No	-	-

349	Swami Textile Pvt Ltd., D-336, Focal Point, phase-8, Ludhiana	S	O	With consent	With authorization	0.0215	0.005	0	0.005	Sutlej	Captive ETP	C	-	No	-	-
350	TEE Knit Sai Nagar, Pakhowal Road, Near Canal Bridge, Ludhiana	S	O	With consent	With authorization	0.012	0.008	0	0.008	Sutlej	Captive ETP	C	-	No	-	-
351	Turbo Tools Pvt Ltd., (unit-II) Clothin Divn), E-435, Focal Point, Phase-VI, Ludhiana	S	O	With consent	With authorization	0.03	0.015	0	0.015	Sutlej	Captive ETP	C	-	No	-	-
352	Udey Udyog, (Formerly Known as M/s Jawand sons) Bhai Himmat Singh, Nagar, Dugri, Ludhiana	S	O	With consent	With authorization	0.03	0.0015	0	0.0015	Sutlej	Captive ETP	C	-	No	-	-
353	Space Knitwear Pvt. Ltd. HAA-65, Phase-6, Focal Point, Ludhiana	L	O	With consent	With authorization	0.03	0.025	0	0.025	Sutlej	Captive ETP	C	-	No	-	-
354	Oliva Knits, F-108, Focal Point, Phase-VIII, Ludhiana	S	O	With consent	With authorization	0.004	0.002	0	0.002	Sutlej	Captive ETP	C	-	No	-	-
355	Super Knit Fab. F-132, F-147, Phase-VIII, Focal Point, Ludhiana	S	O	With consent	With authorization	0.122	0.05	0	0.05	Sutlej	Captive ETP	C	-	No	-	-
356	Stan Autos Pvt. Ltd., Vill. Daad, Pakhowal Road, Ludhiana	S	O	With consent	With authorization	0.0015	0.001	0	0.001	Sutlej	Captive ETP	C	-	No	-	-
357	Swani Motors (Earlier M/s Stan Wheels Pvt.Ltd., Main threekay Road, ayali chownk, Ferozepur Road, Ludhiana.	S	O	With consent	With authorization	0.008	0.006	0	0.006	Sutlej	Captive ETP	C	-	No	-	-
358	Luxmi Service	S	O	With consent	With authorization	0.008	0.005	0	0.005	Sutlej	Captive	C	-	No	-	-

	Station, Auto Division, hadbast no. 159, Ferozepur Road, Ludhiana										ETP					
359	Wheel Point, Main Canal Road, Dugri Road, Ludhiana	S	O	With consent	With authorization	0.0033	0.0022	0	0.0022	Sutlej	Captive ETP	C	-	No	-	-
							107.35	8.55	92.228							

Category-wise status of treatment and disposal arrangements made by the industrial units except units connected to CETPs in Ludhiana area

Total Industries- 2124, Waste Water Generation-88 MLD



Annexure-IV

Information regarding industries contributing their effluent to river Sutlej/Beas directly or indirectly in Jalandhar Area

Sr. No	Name & Address of the industry	Scale of the industry	Category of the industry	Consent status under Water Act, 1974 (with consent/without consent)	Authorization status under HWM Rules, 2016 (with authorization /without authorization)	Water consumption in(MLD)	Quantity of trade effluent in (MLD)	Quantity of treated waste water recycled/reused (In MLD)	Total trade effluent discharged (In MLD)	Name of Receiving river (Sutlej /Beas)	Status of ETP(captive ETP/ common ETP)	Status of compliance w.r.t effluent discharge norms (Complying/not complying)	Status of Action taken against non-compliance (previous column)	Whether the unit is covered under 17 category of industries (yes or no)	Status of 17 categories of industries which have not installed Online continuous effluent monitoring system (OCEMS) (installed /not installed)	Status of 17 category of industries indicating whether data is transferred to the servers of PPCB/ CPCB (yes or no)
1	WAHID SANDHAR SUGARS LTD.,,G.T. ROAD, PHAGWARA, DISTT. KAPURTHALA	L	Red	With consent	With authorization	1.8	1.64	NIL	0.5	Sutlej	Captive ETP	Complying	NA	Yes	Installed	Yes
2	Common Effluent Treatment Plant Leather Complex, Jalandhar	L	Red	With consent	With authorization	5	5	NIL	5.146	Sutlej	Common Effluent Treatment	Not complying	Action under process	Yes	Not installed	No

											Plant					
3	JCT LTD, G.T ROAD PHAGWARA	L	Red	With consent	With authorization	6	5.146	NIL	1.5	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
4	MRS BECTOR FOOD SPECILITIES LTD.,(HADBAST No. 153), TEHING ROAD PHILLOUR	L	Orange	With consent	With authorization	0.06	0.05	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
5	SHITAL FIBRES LTD,A-17, FOCAL POINT EXTN., JALANDHAR	L	Red	With consent	With authorization	0.375	0.36	NIL	0.8	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
6	SUKHJIT STARCH LTD.,,PHAGWARA, DISTT. KAJURTHALA.	L	Orange	With consent	With authorization	1.7	1.5	NIL	0.5	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
7	Cre mica Food Industries Ltd ,(Previously Known as BECTOR'S FOOD SPECIALITIES LTD.UNIT II,THEING ROAD, PHILLAUR. DISTT. JALANDHAR.	M	Orange	With consent	With authorization	0.3	0.2	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
8	PRIYA LEATHER,, NEW GAUTAM NAGAR, BASTI BAWA KHEL, JALANDHAR	S	Red	With consent	With authorization	0.03	0.02	NIL	0.07	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
9	Punjab Leather Processer Pvt. Ltd,,Basti Bawa Khel Jalandhar	S	Red	With consent	With authorization	0.2	0.15	NIL	0.25	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
10	Fibre Leathers (P) Ltd. 1043, Dada Colony, Industrial Area	S	Red	With consent	With authorization	0.9	0.8	NIL	0.05	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
11	JAGSON AND CO.,S-2 INDUSTRIAL AREA	S	Red	With consent	With authorization	0.6	0.5	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No

JALANDHAR																
12	Chander Tanners, 790, Basti Danishmanda, Jalandhar	S	Red	With consent	With authorization	0.03	0.02	NIL	0.15	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
13	National Leather, 3, Ravidass Nagar, Basti Danishmanda, Jalandhar	S	Red	With consent	With authorization	0.03	0.02	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
14	Priya Leather (Unit-1), Mata Sant Kaur Nagar, Basti Bawa Khel Jalandhar	S	Red	With consent	With authorization	0.03	0.02	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
15	PRIYA LEATHER, (Unit-3) NEW GAUTAM NAGAR, BASTI BAWA KHEL, JALANDHAR	S	Red	With consent	With authorization	0.03	0.02	NIL	0.04	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
16	Banarsi Dass Football Maker, Near Ice Factory, Basti Nau, Jalandhar	S	Red	With consent	With authorization	0.03	0.02	NIL	0.035	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
17	Paradise Leather Craft, 91-92, Dilbagh Nagar, Basti Guzan, Jalandhar	S	Red	With consent	With authorization	0.03	0.02	NIL	0.25	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
18	Hind Rubber Factory, S-7, Industrial Area, Jalandhar.	S	Red	With consent	With authorization	0.09	0.07	NIL	0.04	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
19	Olympic Leather, A-16, New Rasil Nagar, Jalandhar	S	Red	With consent	With authorization	0.35	0.25	NIL	0.01	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
20	Kalsi Sports, Model House Jalandhar	S	Red	With consent	With authorization	0.06	0.05	NIL	0.01	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
21	S.P. and Co. New Rasila Nagar, Basti Danishmanda, Jalandhar	S	Red	With consent	With authorization	0.03	0.02	NIL	0.01	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
22	M.D corporation Basti Danishmandan jalandhar	S	Red	With consent	With authorization	0.03	0.02	NIL	0.01	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
23	Aakriti Chevrolet	S	Orang	With consent	With	0.06	0.05	NIL	0.03	Sutlej	Captive	Complying	NA	No	Not	No

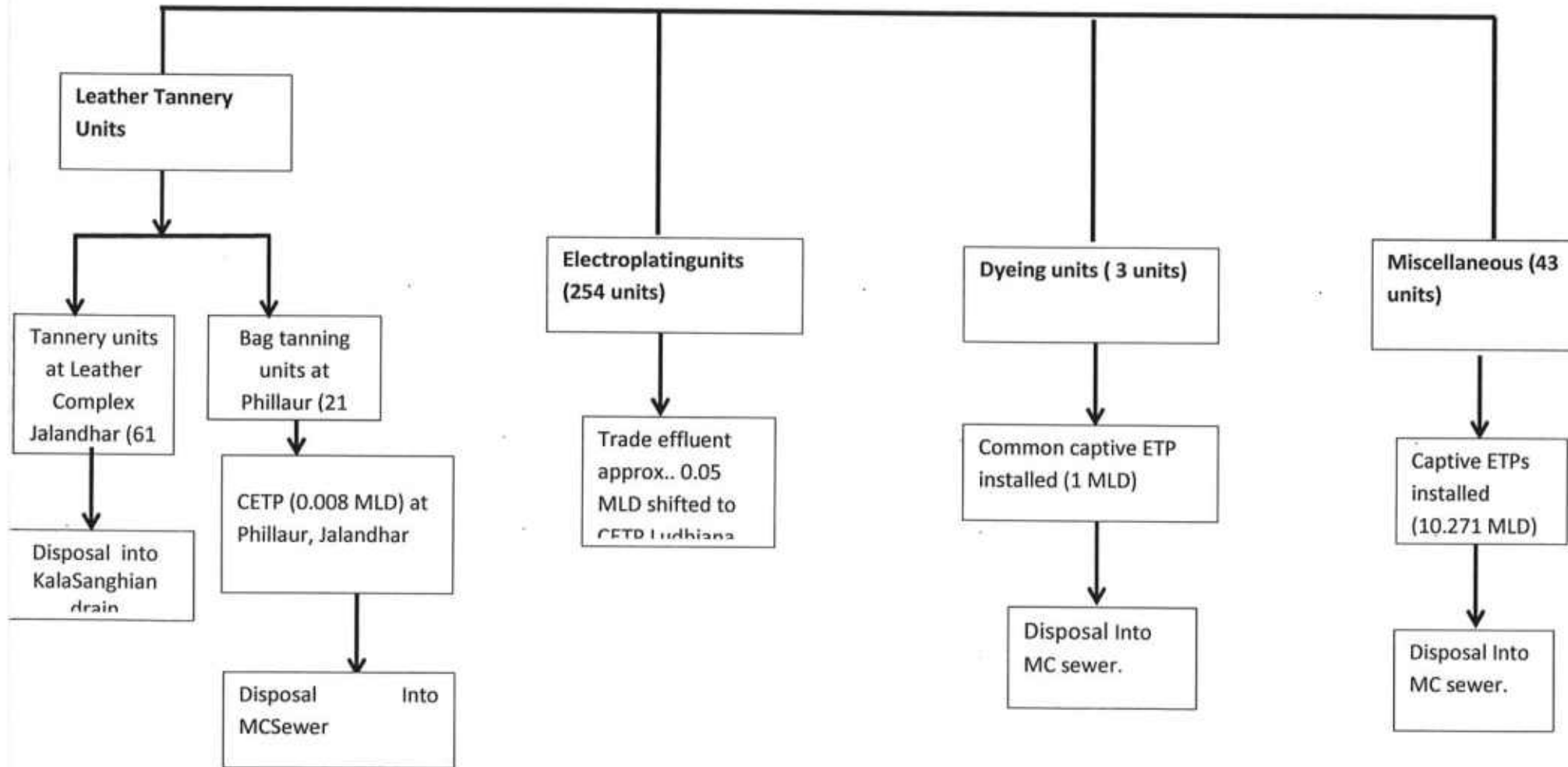
	World(Chevrolet),Lad owali Road, Near BSF Chowk, Jalandhar.		e		autrhorization						ETP				installed	
24	Food Coast International,A-23, Foal Point Extn, Jalandhar	S	Orang e	With consent	With autrhorization	0.16	0.15	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
25	GOYAL AUTOMOTIVE LTD, KAPURTHALA ROAD, JALANDHAR	S	Orang e	With consent	With autrhorization	0.025	0.02	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
26	LOVELY AUTO,DR. AMBEDKER CHOWK NAKODAR CHOWNK, JALANDHAR	S	Orang e	With consent	With autrhorization	0.025	0.02	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
27	METRO MILK PRODUCT (P) LTD, C-44, S.S.G.C., JALANDHAR,METRO MILK PRODUCT (P) LTD.	S	Orang e	With consent	With autrhorization	0.05	0.04	NIL	0.04	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
28	Padam Cars Pvt. Ltd, Amritsar Bye Pass Road, Jalandhar.	S	Orang e	With consent	With autrhorization	0.045	0.035	NIL	0.035	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
29	Northern Motors Pvt Ltd., G.T. Road, Nr. Lyallpur Khalsa College, Jalandhar	S	Orang e	With consent	With autrhorization	0.35	0.25	NIL	0.25	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
30	Stan Auto (P) Ltd, G.T Road, Phagwara	S	Orang e	With consent	With autrhorization	0.05	0.04	NIL	0.04	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
31	Cargo Motor (P) Pvt. Ltd, Street No. 1 Central Town, Jalandhar	S	Orang e	With consent	With autrhorization	0.02	0.01	NIL	0.01	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
32	Cargo Motor (P) Pvt. Ltd, Urban Estate Phase -1, Near PSEB Office, Jalandhar	S	Orang e	With consent	With autrhorization	0.02	0.01	NIL	0.01	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
33	Cargo Motor, Jalandhar Cantt	S	Orang e	With consent	With autrhorization	0.02	0.01	NIL	0.01	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
34	Cargo Motor, Rama	S	Orang	With consent	With	0.02	0.01	NIL	0.01	Sutlej	Captive	Complying	NA	No	Not	No

	Mandi Jalandhar		e		authorization						ETP				installed	
35	New Look Auto , Phagwara	S	Orange	With consent	With authorization	0.04	0.03	NIL	0.03	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
36	RAGA MOTOR PVT. LTD,, Jalandhar Amritsar G.T Road, JALANDHAR	S	Orange	With consent	With authorization	0.035	0.03	NIL	0.03	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
37	Galaxy Honda, Jalandhar Amritsar G.T Road, JALANDHAR	S	Orange	With consent	With authorization	0.025	0.02	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
38	Cargo Motor, BSF Chowk, Jalandhar	S	Orange	With consent	With authorization	0.02.	0.01	NIL	0.01	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
39	Cargo Motor, Near Bus Stand, Jalandhar	S	Orange	With consent	With authorization	0.02	0.01	NIL	0.01	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
40	Navyug Motor, Near BSF Chowk, Jalandhar	S	Orange	With consent	With authorization	0.035	0.02	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
41	Globe Tractor, Near BSF Chowk, Jalandhar	S	Orange	With consent	With authorization	0.035	0.02	NIL	0.02	Sutlej	Captive ETP	Complying	NA	No	Not installed	No
42	Fateh Motor, Near Sports College Kapurhtala Road Jalandhar	S	Orange	Without consent	Without authorization	0.01	0.01	NIL	0.01	Sutlej	Captive ETP	Not complying	Action under process	No	Not installed	No
43	Bassi Auto, Chugitti G.T Road Amritsar Bye Pass Jalandhar	S	Orange	Without consent	Without authorization	0.01	0.01	NIL	0.01	Sutlej	Captive ETP	Not complying	Action under process	No	Not installed	No
44	Nextgen Auto Mobile (Sony Auto Mobile) G.T Road Amritsar Bye Pass Jalandhar	S	Orange	Without consent	Without authorization	0.01	0.01	NIL	0.01	Sutlej	Captive ETP	Not complying	Action under process	No	Not installed	No
45	Brew Master, 3rd Floor of Chunman Mall New Jawahar Nagar, Jalandhar	S	Orange	Without consent	Without authorization	0.01	0.01	NIL	0.01	Sutlej	Captive ETP	Not complying	Action under process	No	Not installed	No
46	Dr. Ambedkar Leather Association, Phillaur, Distt Jalandhar	S	Red	With consent	With authorization	0.035	0.035	NIL	0.035	Sutlej	Common Effluent Treatment Plant	Complying	NA	No	Not installed	No

Category-wise status of treatment and disposal arrangements made by the industrial units located in Jalandhar area

Total Industries = 382

Waste water Generation = 16.329 MLD



Annexure-VI

**Urban area-wise Solid Waste Generation
(in towns falling under the Catchment area of rivers Satluj and Beas)**

S. No	Name of Town	Population (Existing)	Solid Waste Generated	Availability of Land for Landfilling of inerts (area in Acres)
1	Abohar	175556	61	2
2	Banga	24089	8	Waryana (Jalandhar) Common Sanitary engineered land fill facility)
3	Goniana	16135	6	3
4	Hoshiarpur	195366	68	23
5	Jalandhar	950000	500	14 at Waryana Site
6	Jalalabad	41000	14	6
7	Jagraon	74201	26	Jamalpur, Ludhiana
8	Kurali	35504	12	2
9	Ludhiana	2130000	1100	50 at Jamalpur (Common Sanitary engineered land fill facility For 14 ULBs)
10	Machhiwara	28507	10	Jamalpur, Ludhiana
11	Malout	88746	31	5
12	Mukatsar	106235	37	4
13	Moga	173078	61	4
14	Nakodar	42236	15	2
15	Nangal	52072	18	4
16	Nawanshahar	51469	18	2
17	Phagwara	146002	51	Waryana (Jalandhar)
18	Phillaur	31042	11	Jamalpur, Ludhiana
19	Ropar	64688	23	5
20	Sahnewal	27061	9	Jamalpur, Ludhiana
21	Anandpur Sahib (DWSS)	18669	7	1
22	Zira	43898	15	leased

S. No	Name of Town	Population (Existing)	Solid Waste Generated	Availability of Land for Landfilling of inerts (area in Acres)
23	Jaitu	44614	16	6
24	Arniwala	10936	4	2
25	Baghapurana	29686	10	3 kanal
26	Kotkapura	109830	38	At Bathinda Common Sanitary engineered land fill facility)
27	Ferozepur	128461	45	4
28	Gidderbaha	48091	17	At Bathinda
29	Guruharsahai	30960	11	2 kanal
30	Makhu	18573	7	15 kanal
31	Morinda	33378	12	Leased 3
32	Nurmahal	16476	6	4 kanal
33	Shahkot	16567	6	1
34	Talwandi Bhai	20954	7	7 kanal
35	Dharamkot	22845	8	14 kanal
36	Adampur	18776	7	Air Force Station 33 kanal
37	Balachaur	24408	9	1
38	Rahon	16979	6	14 kanal
39	Patti	47512	17	Leased 2
40	Goraya	18022	6	2 kanal
41	Samrala	22957	8	Jamalpur, Ludhiana
42	Faridkot	104805	37	18
43	Garhshankar	20636	7	11 kanal
44	Maluka	6408	2	2
45	Kiratpur Sahib	8573	3	1
46	Raikot	33165	12	22 kanal
47	Maloud	8331	3	1
48	Mullanpur	16356	6	1

S. No	Name of Town	Population (Existing)	Solid Waste Generated	Availability of Land for Landfilling of inerts (area in Acres)
49	Doraha	25424	9	Jamalpur, Ludhiana
50	Barriwala	9200	3	1
51	Mamdot	19423	7	1
52	Mallanwala	18943	7	2
53	Mudki	11919	4	1
54	Bhai Roopa	15345	5	1
55	Bhagta Bhaika	14687	5	1
56	Kothaguru	11088	4	At Bhagta Bhaika
57	Fatehgarh Panjtoor	5478	2	At Kot Isse Khan
58	Bilga	10745	4	4 Kanal
59	Lohian	11547	4	1 kanal
60	Mahilpur	13367	5	2 Kanal
61	Nihal Singh wala	12467	4	4 Kanal
62	Kot Ise Khan	15494	5	2
63	Mahitpur	15406	5	8 Kanal
64	Sham Churasi	4871	2	Air Force Station 33 kanal
		Total SWM (TPD)	2485	
Details of towns whose waste water finds its way to river Beas				
1	Bhulath	10548	4	3
2	Dasuya	26540	9	8
3	Kapurthala	107266	38	4
4	Mukerian	35250	12	1
5	Pathankot	286721	100	10
6	Sri Hargobindpur	9360	3	3
7	Sultanpur Lodhi	18540	6	Leased 26 kanal
8	Tanda	27411	10	7 kanal

9	Rayya	16333	6	7 kanal
10	Dhilwan	9328	3	1
11	Hariana	9710	3	3
12	Begowal	11225	4	3
13	Kartarpur	28122	10	Leased 1.5
14	Alawalpur	8606	3	At airport station Adampur 33 Kanals
15	Bhogpur	15432	5	2
16	Sujanpur	32645	11	1
17	Nadala	7588	3	1
18	Talwara	20216	7	1
19	Gardhiwala	8994	3	1
		Total SWM (TPD)	241	

BEFORE THE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH, NEW DELHI

Original Application No. 101/2014

Sobha Singh & Ors. vs. State of Punjab & Ors.

CORAM : HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE MR. JUSTICE S.P. WANGDI, JUDICIAL MEMBER
HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

Present: Applicant/Appellant(s) : Mr. Divya Kumar Kaushik, Adv.
Respondent No.9 to11 : Mr. A.R. Takkar with Amarjeet Kumar & Shriya Takkar, Advs.
CPCB : Mr. Raj Kumar, Adv.
State of Punjab : Mr. Sakya Sinha Chaudhuri, AAG and Mr. Akshay Shandilya, Adv.
State of Rajasthan : Mr. S. S. Shamshery AAG and Mr. Ankit Raj, adv. and Mr. R. K. Singla EE WRD.
Respondent no.5 : Mr. Shubham Bhalla, Adv.
MoUD : Mr. B.V. Niren, Adv.
RSPCB : Mr. Naginder Benipal, Adv.
: Mr. Shiv Mangal Sharma, AAG, Mr. Saurabh Rajpal, Mr. Adhiraj Singh and Mr. Vikramjeet Singh, advs.

Date and Remarks	Orders of the Tribunal
Item No. 01 July 24, 2018 ag	1. This Original Application was filed on 19 th May, 2014. The applicant is resident of Village Chhani Badi, Tehsil Badra, District Hanumangarh, State of Rajasthan. According to the application, 8 Districts of Rajasthan are supplied water from Indira Gandhi Canal Project (IGNP). River Satluj and Beas merge at Harike Barrage and Rajasthan Feeder (IGNP) emerges from Barrage along with the Firozpur feeder generating 55 RD Sirhind feeder. IGNP is about 650 Kms. During the passage of River Satluj, various industries dump untreated pollutants. <i>Buddha Nallah</i> is a tributary of River Satluj. Untreated sewage of Ludhiana city is discharged into <i>Buddha Nallah</i> as per report published in International Journal of Environmental Sciences in its Volume -2 published in November, 2011. People are forced to live in highly toxic environment along the <i>Chitti Bein</i> which also joins Satluj. Groundwater quality has been affected by Total Dissolved

<p>Item No. 01</p> <p>July 24, 2018</p> <p>ag</p>	<p>Solid (TDS). Accumulation of Chromium, Nickel, Zinc and pesticides is high in the sediment of <i>Chitti Bein</i>. Traces of metals like Chromium, Nickel and Zinc were detected in soil samples of the fields irrigated by the waters of the Bein. There is high level of inorganic and organic pollution in both the east <i>Bein</i> and the <i>Kala Sanghia</i> drain, as per the Punjab Pollution Control Board (PPCB) reports. Further, the report by SERI on Buddha Stream is also relevant. A study was also carried out on the impact of pollutants on water quality of river Satluj in Nangal Area which has been published in 'Biological Forum' – an International Journal. Sant Seechewal led a movement for cleaning <i>Buddha Nallah</i> for which he was honoured. He has recorded his findings in his book <i>Sikh Religion & Environment Conservation</i> especially depicting municipal sewage water contamination at Ludhiana. The Punjab Pollution Control Board (PPCB) prepared an action plan for critically polluted area of Ludhiana City stipulating ban on new industrial units for 8 months. There are 1332 hazardous waste generating industries engaged in dyeing, electroplating, induction furnaces etc. Presently, these industries are generating total hazardous waste of 5498 MT, out of which 275 MT is recyclable and incinerable. The Central Pollution Control Board issued a direction dated 5th February, 2014 to all Pollution Control Boards and Pollution Control Committees under Section 18 (1) of the Water (Prevention & Control of Pollution) Act 1974 and 18 (1) B of the Air (Prevention & Control of Pollution) Act 1981 to deal with the pollution by 17 categories of the highly polluting industries. The directions required</p>
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<p>Item No. 01</p> <p>July 24, 2018</p> <p>ag</p>	<p>installation of online monitoring systems, The Chief Minister of Rajasthan conveyed the magnitude of the problem and sufferings of the people to the Chief Minister of Punjab but it had no effect.</p> <p>3. The Punjab Pollution Control Board filed its status report as on 21st September, 2014 in terms of the direction of this Tribunal dated 22nd April, 2014. The report mentioned the sources of waste water being discharged in rivers Satluj and Beas and suggested that STP was required to treat the sewage of Kala Sanghian Drain which required a sum of Rs. 9 Crores and 8-9 months period for completion. Sewage of Jalandhar city has also been flowing in Kala Sanghian Drain. 3 STPs were under constructions which were to be commissioned by 30th September, 2014. One STP was under construction for Phagwara Drain. CETP was set up at Jalandhar to take care of electroplating units which was to be commissioned by 31st December, 2014. The dairies were also discharging the liquid waste into the drains. There are tanneries discharging pollutants but there are only 2 CETPs. The other details of discharge of pollutants have also been given.</p> <p>4. In its reply, the State of Rajasthan referred to a Joint Inspection conducted by the Central Pollution Control Board observing that water quality of River Satluj and Beas was deteriorating. It proposed that the Punjab Pollution Control Board should ensure treatment of pollutants through the STPs. In Joint Inspection on 1st - 3rd May, 2012, it was found that BOD are not meeting the</p>
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<p>Item No. 01</p> <p>July 24, 2018</p> <p>ag</p>	<p>standards for discharging of environmental pollutants into the inland surface. With respect to COD and TSS, it was observed that STP are meeting the standard for inland surface, public sewers and land for irrigation marine coastal areas. With regard to CETP at Ludhiana and Jalandhar, it was observed that the CETP was not meeting the standards. The 35 Municipal Councils/Nagar Panchayats are discharging sewage into river Satluj and in discharge of <i>Buddha Nallaha</i> and <i>East Bein</i> heavy metals and large BoD load exists. Another inspection was done on 1st May, 2014 and it suggested no significant improvement in the situation. The Ludhiana Municipal Corporation stated that it has installed STPs for discharge of domestic sewage and mentions some other steps to check dumping of pollutants in the river Satluj.</p> <p>5. The Punjab Pollution Control Board has stated that 5 green bridges were proposed to be constructed at the cost of Rs. 15.28 crores funded by the Ministry of Environment, Forest and Climate Change. The effluent treatment plants are being monitored.</p> <p>6. The Punjab Water Supply and Sewerage Board stated that 5 STPs has been installed in Ludhiana at a cost of Rs. 233.33 crores.</p> <p>7. The matter came up for hearing before the Tribunal on 7th May, 2015 and this Tribunal considered the observation of the Central Pollution Control Board with respect to the water quality of the river Satluj at different regulations. The observations of the Central Pollution Control Board noted in the said order are as follows:</p> <p>1. "With respect to DO and BOD, water quality of river Sutlej before confluence of Buddha Nallah confirms to primary water quality criteria.</p>
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<p>Item No. 01</p> <p>July 24, 2018</p> <p>ag</p>	<ol style="list-style-type: none"> 2. Water quality of River Sutlej deteriorates after confluence of Buddha Nalla. Industrial units in small scale sector like Electroplating, Hosiery, Steel Rolling Mills etc mainly contribute to the wastewater in Buddha Nalla. The River water quality does not confirm to any of the designated use. 3. Trace amount of Chromium, Arsenic was found in river Sutlej after confluence of Buddha Nallah. 4. Some improvement in the water quality of river was observed before confluence of East Bein drain. 5. The river water quality with respect to BOD, DO, Total coliform and Fecal coliform again deteriorates after confluence of the East Bein. 6. It is observed from the analyzed result that the water quality of River Sutlej improves after confluence of river Beas and it lies in best use category A, except for coliforms. 7. Water quality of River Beas meets the primary water quality criteria and lies in best use category A, except coliforms. 8. Water quality of Rajasthan feeder does not meet the primary water quality criteria with respect to category A (Drinking Water Source without conventional treatment but after disinfection). However, water quality was within the prescribed limit with respect to category B and C. 9. Water quality of Ferozpur/ Sirhind Feeder meets the prescribed standard and lies in best use category A (Drinking Water Source without conventional treatment but after disinfection), except for coliforms." <p>8. Thereafter the recommendations of the Central Pollution Control Board were noted to be as follows:</p> <ol style="list-style-type: none"> 1. <i>"Punjab State Pollution Control Board (PSPCB) shall ensure that sewage of Ludhiana, Jalandher, Phagwara is conveyed to Sewage Treatment Plants (STPs)</i> 2. <i>STPs shall run with full capacity and optimum performance.</i> 3. <i>PSPCB and concerned Punjab Authorities shall explore the possibility to reuse the treated wastewater.</i> 4. <i>PSPCB shall issue directions under section 33 (A) of the Water (Prevention & Control of Pollution) Act, 1974 to Sewage Treatment plants installed at Ludhiana and Jalandhar and Common Effluent Treatment Plant installed at Leather complex, Jalandhar</i>
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<p>Item No. 01</p> <p>July 24, 2018</p> <p>ag</p>	<p>5. PSPCB shall ensure that no industrial unit discharges its untreated/partially treated effluent either into Sutlej and Beas River or into drains.</p> <p>6. Concerned Authorities of Punjab shall ensure that all the wastewater is conveyed to STPs and CETPs so that only treated wastewater is discharged into drains or river.</p> <p>7. PSPCB with concerned authorities shall evolve an action plan for abatement and control of pollution of river Sutlej and Beas.</p> <p>8. Concerned Authorities of Rajasthan shall ensure that water of Rajasthan feeder and other canal be given conventional treatment with disinfection for drinking purpose."</p> <p>9. It was noted that following directions were given by Central Pollution Control Board on 10th November, 2014:</p> <ol style="list-style-type: none"> 1. "Buddha Nallah and East Bein are major point sources discharging treated/untreated wastewater to river Sutlej. Buddha Nallah contributes about 16,672 kg/day of BOD load whereas East Bein contributes about 20,900 kg/day of BOD load. 2. Buddha Nalla and East Bain deteriorate the water quality of river Sutlej as BOD level of river Sutlej after confluence of East Bein was observed as 10 mg/l whereas DO was 0.0 mg/l which does not confirm to any designated use during lean period of April, 2014. 3. Water Quality of River Sutlej improves after confluence of river Beas as BOD level at d/s of Harike Barrage was 01 mg/l and DO was 7.2 mg/l. 4. Total wastewater generation from major town of Ludhiana, Jalandhar and Phagwara is about 767 MLD (domestic + industrial). 5. The water quality of river and canal does not confirm to the prescribed norms for total coliform. Total Coliform in Rajasthan feeder was in the range of 2000 to 1300000 MPMN.100ml whereas in Sirhind Feeder was in the range of 4000 to 92000 MPN/100ml. <p>10. After noticing the above, the Tribunal directed the concerned Pollution Control Boards to prepare an action plan for remedial situation.</p> <p>11. On 9th October, 2015, the Tribunal considered the action plan of the Punjab Water Supply & Sewage Board (PWSSB) for which the funds were to be released by the</p>
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<p>Item No. 01</p> <p>July 24, 2018</p> <p>ag</p>	<p>Ministry of Urban Development, Government of India as per details noted in the order of the Tribunal.</p> <p>12. On 18th December, 2015, the Tribunal directed a Joint Inspection of Central Pollution Control Board and Punjab Pollution Control Board. It was also directed that samples of the effluents be taken and a report furnished. The said report was considered on 13th January, 2016 and it was noticed that the effluent discharged from the outlets of Sultanpur Lodhi and Basti Peerdaad exceeded the prescribed norms for BoD, CoD, TSS and Phosphates.</p> <p>13. On 9th January, 2017, the Tribunal directed the PPCB to file an affidavit in support of the stand that the industries have achieved zero discharge. Again the matter was considered on 19th April, 2017 and also subsequently.</p> <p>14. As per status report filed by the Punjab Pollution Control Board as on 23rd July, 2018, out of 18 towns in Nangal-Ropar belt, 17 STPS have already been installed and eighteenth is likely to be commissioned by 30th September, 2018. The Board is monitoring the industrial discharge and they have installed ETPs based on Zero Liquid Discharge technology (ZLD). CETPs catered to the industries based on ZLD technology. This has resulted in reduction in pollution in terms of metal content. The dyeing industries have installed ETPs and there is a proposal to install 3 CETPs. M/s Bahadurke Textile and Knitwear Association is installing a CETPs which has been approved by the Government of India for 50 % funding. The Punjab Dyers Association (Focal Point Module and Tajpur-Rahon road Module) is installing CETPs. It is stated that out of these 5 STPs, 3 STPs of capacity 48</p>
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<p>Item No. 01</p> <p>July 24, 2018</p> <p>ag</p>	<p>MLD, 152 MLD and 111 MLD STPs are based on UASB technology and have become old and needs upgradation to achieve the stringent parameters prescribed by Punjab Pollution control Board. There is also need to enhance the overall capacity of STPs to 650 MLD against the existing capacity of 466 MLD. Furthermore, there are some outlets carrying sewage of Ludhiana city, which directly falls into Buddha Nallah without any treatment for which Municipal Corporation, Ludhiana has to connect these outlets with main sewerage system leading to STPs. For closing these outlets and enhancement of capacity of STPs, Municipal corporation, Ludhiana has engaged the services of Engineers India ltd., (EIL), New Delhi and M/s Shah Technical Consultant, Chandigarh. The study of whole stretch of Buddha Nallah is being carried out to check the feasibility of interceptor sewer along the stretch of <i>Buddah Nallah</i>.</p> <p>With regard to <i>Kala Singhia Drain</i> and <i>Garha Drain</i> it is stated that there is a proposal for upgradation of the existing CETPs and to install third module of CETPs.</p> <p>15. Further, Status reports have also been filed indicating the status at Jalandhar and Ludhiana with regard to the setting up of the STPs.</p> <p>16. The above resume of the facts appearing in the inspection reports and the steps taken by local bodies, it does not give a clear picture of the result achieved at the ground level. Though, it is stated that there is need to upgrade STPs/CETPS and there are other challenges, time bound solution has not been suggested. The matter is pending for four years and almost 50 adjournments have</p>
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<p>Item No. 01</p> <p>July 24, 2018</p> <p>ag</p>	<p>been granted. We are now satisfied that there is immediate need for a dedicated and qualified monitoring committee for constant monitoring so as to ensure improvement on the ground level. The untreated effluents cannot be allowed to be dumped into any river or water bodies as it will violate fundamental right to life of the inhabitants were entitled to pollution free and clean water.</p> <p>17. Accordingly, we direct as follows:</p> <p>i) The Central Pollution Control Board may forthwith constitute a Monitoring Committee with the involvement of Mr. Balbir Singh Seechewal who has rendered remarkable voluntary service for creating awareness of checking pollution. The Representative of the CPCB will be the Nodal Officer and a representative of the Rajasthan Pollution Control Board may also be included in the Monitoring Committee. The Monitoring Committee must have one Engineer and one Scientist and also a Member of the Punjab Pollution Control Board and a Nominee of the Urban Development of the State of Punjab.</p> <p>ii) The Monitoring Committee must have first meeting latest by 10th August, 2018 and take stock of the action taken report so far. It may also prepare time bound Action Plan for handling the situation. Short term action plan may be for three months and longer plan may have three monthly targets.</p> <p>iii) Action Plan may be put on the website of the</p>
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<p>Item No. 01</p> <p>July 24, 2018</p> <p>ag</p>	<p>PPCB/CPCB enabling suggestions from stake holders and involvement of such volunteers as are considered relevant and genuine. Educational institutions may be encouraged to create awareness among children.</p> <p>18. With the above observation, the application is disposed off. The report of the Monitoring Committee may be filed by October 31, 2018 and registered as an independent application.</p> <p>19. List for consideration of the report of the Committee on 14th November, 2018.</p> <p>....., CP (Adarsh Kumar Goel)</p> <p>.....,JM (S.P. Wangdi)</p> <p>.....,EM (Dr. Nagin Nanda)</p> <p>24.07.2018</p>
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BEFORE THE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH, NEW DELHI

Original Application No. 344 of 2018

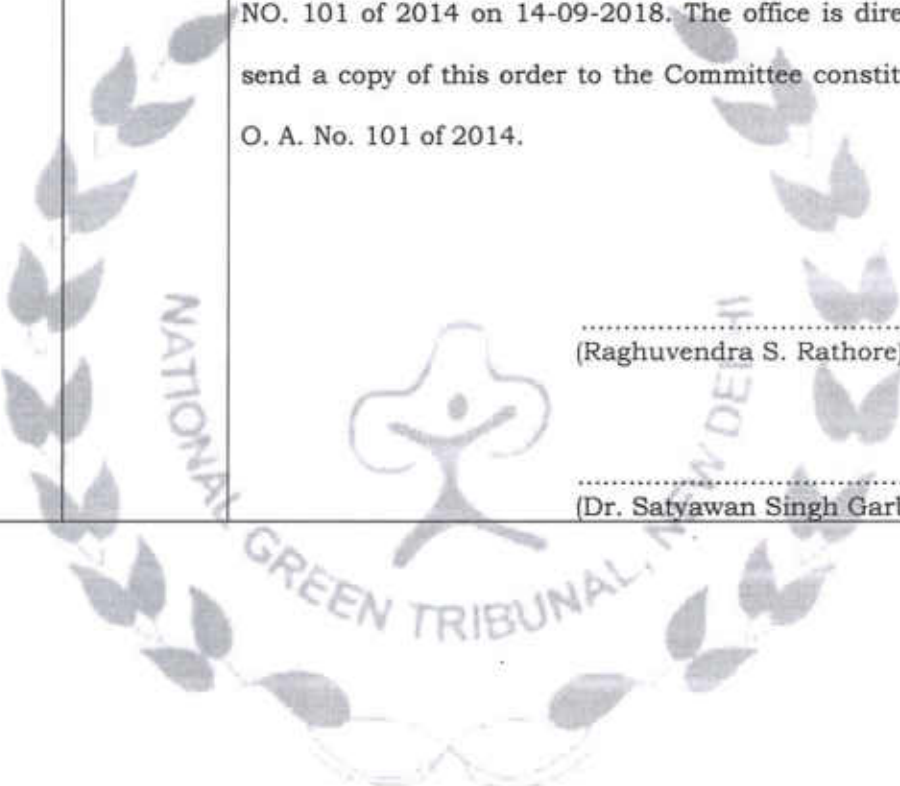
Sukhpal Singh Khaira, MLA, Punjab Assembly & Ors.
V/s
UOI & Ors.

CORAM : HON'BLE MR. JUSTICE RAGHUVENDRA S. RATHORE, JUDICIAL MEMBER
HON'BLE DR. SATYAWAN SINGH GARBYAL, EXPERT MEMBER

Present: Applicant : Mr. H. S. Phoolka, Sr. Adv and Ms. Shilpa
Dewan, Adv.
PCCB : Mr. Karan Bharihoke, Adv
State of Rajasthan: Mr. Shiv Mangal Sharma, AAG, Mr. Saurabh
Rajpal, Mr. Adhiraj Singh, Adv.
MoEF : Mr. Rajesh K. Singh, Adv.
Respondent No. 11 : Mr. Rajinder Singh Bhatta and Mr. Misra, Adv
Respondent No. 10 : Mr. Sangram Singh Saron, Adv
CPCB: : Mr. Rajkumar, Adv.

Date and Remarks	Orders of the Tribunal
<p>Item No. 06</p> <p>September 04, 2018</p>	<p>As in a matter relating to the same subject (O. A. NO. 101 of 2014) an order has been passed on 24-07-2018 and the same has been ordered to be listed on 14-09-2018. In the order of 24-07-2018 a Committee has been constituted and following directions have been issued:</p> <p>17. Accordingly, we direct as follows:</p> <p>i) <i>The Central Pollution Control Board may forthwith constitute a Monitoring Committee with the involvement of Mr. Balbir Singh Seechewal who has rendered remarkable voluntary service for creating awareness of checking pollution. The Representative of the CPCB will be the Nodal Officer and a representative of the Rajasthan Pollution Control Board may also be included in the Monitoring Committee. The Monitoring Committee must have one Engineer and one Scientist and also a Member of the Punjab Pollution Control Board and a Nominee of the Urban Development of the State of Punjab.</i></p> <p>ii) <i>The Monitoring Committee must have first meeting latest by 10th August, 2018 and take stock of the action taken report so far. It may also prepare time bound Action Plan for handling the situation. Short term action plan may be for three months and longer plan may have three monthly targets.</i></p>

<p>Item No. 06 September 04, 2018</p>	<p>iii) <i>Action Plan may be put on the website of the PPCB/CPCB enabling suggestions from stake holders and involvement of such volunteers as are considered relevant and genuine. Educational institutions may be encouraged to create awareness among children.</i></p> <p>18. <i>With the above observation, the application is disposed off. The report of the Monitoring Committee may be filed by October 31, 2018 and registered as an independent application.</i></p> <p>Therefore, let this matter be also referred to the Committee constituted with the aforesaid directions passed in O. A. NO. 101 of 2014 and list the same.</p> <p>Thereafter this case be also listed along with O. A. NO. 101 of 2014 on 14-09-2018. The office is directed to send a copy of this order to the Committee constituted in O. A. No. 101 of 2014.</p> <p>.....JM (Raghuvendra S. Rathore)</p> <p>.....EM (Dr. Satyawan Singh Garbyal)</p>
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BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Original Application No. 345 of 2018
(M. A. No. 934 of 2018)

Amber Sachdeva Vs. UOI & Ors.

CORAM : HON'BLE MR. JUSTICE RAGHUVENDRA S. RATHORE, JUDICIAL MEMBER
HON'BLE DR. SATYAWAN SINGH GARBYAL, EXPERT MEMBER

Present: Applicant: Mr. Narender Pal Singh, Adv. and Mr. Amber Sachdeva,
Applicant in person
MoEF Mr. Rajesh K. Singh, Adv
PPCB Mr. Karan Bharihoke, Adv
Respondent No. 6 Mr. Sangram Singh Saron, Adv with Mr. Shubham
Bhalla, Adv.
Respondent No. 2 :Mr. B.V. Niren, Adv.for CGSC
CPCB Mr. Raj Kumar, Adv.

Date and Remarks	Orders of the Tribunal
<p>Item No. 07 September 04, 2018</p>	<p>As in a matter relating to the same subject (O. A. NO. 101 of 2014) an order has been passed on 24-07-2018 and the same has been ordered to be listed on 14-09-2018. In the order of 24-07-2018 a Committee has been constituted and following directions have been issued:</p> <p>17. Accordingly, we direct as follows:</p> <p>i) <i>The Central Pollution Control Board may forthwith constitute a Monitoring Committee with the involvement of Mr. Balbir Singh Seechewal who has rendered remarkable voluntary service for creating awareness of checking pollution. The Representative of the CPCB will be the Nodal Officer and a representative of the Rajasthan Pollution Control Board may also be included in the Monitoring Committee. The Monitoring Committee must have one Engineer and one Scientist and also a Member of the Punjab Pollution Control Board and a Nominee of the Urban Development of the State of Punjab.</i></p> <p>ii) <i>The Monitoring Committee must have first meeting latest by 10th August, 2018 and take stock of the action taken report so far. It may also prepare time bound Action Plan for handling the situation. Short term action plan may be for three months and longer plan may have three monthly targets.</i></p> <p>iii) <i>Action Plan may be put on the website of the PPCB/CPCB enabling suggestions from</i></p>

<p>Item No. 07 September 04, 2018</p>	<p><i>stake holders and involvement of such volunteers as are considered relevant and genuine. Educational institutions may be encouraged to create awareness among children.</i></p> <p>18. With the above observation, the application is disposed off. The report of the Monitoring Committee may be filed by October 31, 2018 and registered as an independent application.</p> <p>Therefore, let this matter be also referred to the Committee constituted with the aforesaid directions passed in O. A. NO. 101 of 2014 and list the same.</p> <p>Thereafter this case be also listed along with O. A. NO. 101 of 2014 on 14-09-2018. The office is directed to send a copy of this order to the Committee constituted in O. A. No. 101 of 2014.</p> <p>.....JM (Raghuvendra S. Rathore)</p> <p>.....EM (Dr. Satyawan Singh Garbyal)</p>
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BEFORE THE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH, NEW DELHIOriginal Application No. 206/2016
(M.A. No. 387/2016)

IN THE MATTERS OF :-

Capt. Hans Raj Singha Vs. Union of India & Ors.

CORAM : HON'BLE MR. JUSTICE RAGHUVENDRA S. RATHORE, JUDICIAL MEMBER
HON'BLE DR. SATYAWAN SINGH GARBYAL, EXPERT MEMBERPresent: Applicant Mr. Akash Vashishtha, Adv. and Capt. Hans Raj Singha,
Applicant in person
Respondent Mr. Vikas Mahajan, AAG for State of HP
HPPCB Mr. Divya Prakash Pande, Adv.

	Date and Remarks	Orders of the Tribunal
	<p>Item No. 13</p> <p>October 05, 2018</p>	<p>This matter related to illegal mining activities in Satluj Flood Plain/River Basin. The larger Bench of this Tribunal in O.A. No. 101 of 2014 has constituted a Committee with detailed terms of reference which includes illegal mining activities of the said river on 24th July, 2018 and the said order has been reiterated in O.A. No. 344 of 2018. Therefore, we direct the Applicant to appear before the Committee and participate in their meeting for his redressal.</p> <p>Consequently, Original Application No. 206 of 2016 stands disposed of, with no order as to cost.</p> <p><u>M.A. No. 387 of 2016</u></p> <p>This Application does not survive for consideration as the main application itself stands disposed of.</p> <p>M.A. No. 387 of 2016 stands disposed of accordingly.</p> <p>.....JM (Raghuvendra S. Rathore)</p> <p>.....EM (Dr. Satyawan Singh Garbyal)</p>

**Central Pollution Control Board**

(Ministry of Environment, Forest & Climate Change, Govt. of India)

Parivesh Bhawan, East Arjun Nagar,

Delhi - 110032

Minutes of First Meeting of Monitoring Committee held on 10.08.2018 in CPCB for Ensuring Compliance to Hon'ble NGT Order dated 24.07.2018 in the matter of O.A No 101/2014 filed by Sobha Singh & Ors. Vs State of Punjab & Ors.

The first meeting of the 'Monitoring Committee' constituted in compliance to the Hon'ble National Green Tribunal (NGT) Order dated 24.07.2017 was held on 10.08.2018 at 11.00 AM in Conference Hall, CPCB, Delhi under the Chairmanship of Shri A. Sudhakar, Divisional Head WQM-I, CPCB. Afore-said meeting was attended by Sh. Balbir Singh Seechewal, Officials of Punjab Pollution Control Board (PPCB), Rajasthan State Pollution Control Board (RSPCB), as well as concerned officials of CPCB. None of the representatives from Urban Development Department of Punjab State attended the afore-said meeting. List of participants is attached at **Annexure I.**

Shri A. Sudhakar, DH, WQM-I CPCB welcomed all the officials and representatives of PPCB, RPCB, CPCB and *Sh. Balbir Singh Seechewal* and his associates. He briefed about the Hon'ble NGT Order dated July 24, 2018 related to control of pollution in River Sutlej and he informed that in pursuance to Hon'ble NGT Order, CPCB has constituted a 'Monitoring Committee' comprising *Shri Balbir Singh Seechewal*, Officials of PPCB, RSPCB, Urban Development, Punjab State, One Scientist and One Engineer from CPCB as members and *Shri J.Chandra Babu, Sc'D*, CPCB as nodal officer. *Shri Sudhakar* also informed that first meeting of the Committee is convened to take a stock of actions taken by the concerned authorities so far and also to discuss the further course of action to be taken by the Committee for ensuring compliance to the Hon'ble NGT Order dated 24.07.2018. Thereafter, he requested *Sh. R.M. Bhardwaj*, Consultant Scientist in CPCB who will also associate with the activities of the committee, to brief about the major issues contributing to the pollution in river Sutlej and canals in the state of Punjab and Rajasthan.

Sh. R.M. Bhardwaj, informed that the interstate water quality dispute is an old issue between Rajasthan and Punjab States for more than 20 years and it was referred to the National Human Rights Commission. Although capacity building of Sewage Treatment Plants is taking place, with the funding of NRCD the scenario did not improve. CPCB is regularly monitoring the water

quality of River Sutlej, Budda Nallah and other drains as well as canals from Harike Barrage supplying water to the State of Rajasthan and observations are communicated periodically. However, he is of the view that the overall scenario of river water quality is not changed as carrying capacity of River Sutlej exhausted. Therefore, Punjab State has to look into the matter seriously and prepare action plan for capacity enhancement in terms of infrastructure, STPs and CETPs to overcome the problems associated with pollution of River Sutlej.

Shri Balbir Singh Seechewal, member expressed his concern with regard to the poor water quality of river Sutlej is mainly due to discharge of contaminated waste water, especially by the electroplating and tannery units in river Sutlej leading to scarcity of clean and safe drinking water to the common man and people are suffering with health problems residing along the river. He also informed that there is a failure of municipal bodies in performing their responsibilities, especially for treatment of municipal sewage and requested that this committee should suggest suitable action plans for control of pollution in River Sutlej.

Thereafter, PPCB was requested to inform the actions taken for ensuring compliance to the directions of Hon'ble NGT order in the matter. Shri Pradeep Gupta, Chief Environmental Engineer and Representative of PPCB presented the measures taken to control pollution of River Sutlej as detailed below:

- River Sutlej pollution is mainly due to discharge of untreated or partially treated domestic sewage and industrial effluent. 35 Municipal Councils/Nagar Panchayats are discharging sewage into river Sutlej, Buddha Nallah and East Bein. Mainly 19 town/cities located in the catchment area of river Sutlej are contributing to river Sutlej pollution and informed that 32 numbers of STPs already commissioned by the municipal authorities and in operation to treat the generated domestic sewage, and 2 more STPs are in pipeline for commissioning. However, most of the STPs are not meeting the standards prescribed for the treated sewage.
- Major industries viz., M/s National Fertilizers Limited (NFL), Nangal; M/s Punjab Alkalies & Chemicals Ltd., Naya Nangal; M/s Guru Gobind Singh Super Thermal Plant (GGSSTP) and M/s Ambuja Cements Ltd., Village Daburji, Ropar which are located in the catchment area of River Sutlej have taken adequate measures and complying to the discharge norms. Similarly, three major industries namely M/s JCT, M/s Sukhjit Starch & Chemicals and M/s Wahid Sandhar Sugar Mills located in Paghwara have installed captive effluent

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treatment plants and are complying to the effluent standards for discharge into municipal sewer.

- In Jalandhar, there are small scale electroplating industries which have become members of CETP, based on 'zero liquid discharge technology'. The effluent of these industries is lifted by CETP operator. No effluent from these industries is being discharged into sewerage system. As regards to the treatment of Leather tanning industries of Jalandhar, presently one CETP of capacity 5 MLD catering treatment to the industries against the estimated quality of about 9.5 MLD. Therefore, in order to restrict the quantity of effluent from these industries to 5 MLD, 50% drums of the leather tanning units have been sealed by Punjab Pollution Control Board. Also, he informed that there is a proposal for up-gradation of existing CETP capacity to 10 MLD under smart city project.
- In Ludhiana, dyeing and electroplating industries are the major industries. All the large and medium scale electroplating industries have installed individual ETPs based on 'Zero Liquid Discharge (ZLD) technology' and presently no effluent from these industries is being discharged into sewer or in Buddha Nallah. Under Phase-III, CETP to treat effluent generated from small scale electroplating industries have been installed.
- For treatment of effluent from small scale wire drawing/pickling industries, five reprocessing plants have been set up in Ludhiana, where spent acid collected from about 500 pickling industries is converted into ferrous sulphate using forced evaporation system. All the dyeing industries have installed captive ETPs and in order to monitor the small scale dyeing industries at single outlet, there was a proposal to install 3 Common Effluent Treatment Plants (CETPs) with capacities of 50 MLD, 40 MLD and 15 MLD for cluster of dyeing industries at Tajpur Road & Rahon Road; Focal Point and Bahadurke Road, respectively. These three CETPs are under installation.
- As regards to the sewage management, he informed that total estimated effluent from Ludhiana city is 750 -760 MLD out of which industrial component is around 120 MLD only. Present capacity of 5 STPs is 466 MLD. The capacity augmentation of about 200 MLD is required to bridge the gap. Municipal Corporation, Ludhiana has engaged the services of M/s. Engineers India Limited (EIL), New Delhi and M/s Shah Technical Consultant, Chandigarh for studying the whole stretch of Buddha Nallah to check the feasibility of laying interceptor sewer to tap direct outlets into Buddha Nallah as well as enhancement of the capacity of existing STPs.



- PPCB representative also mentioned that, an In-situ Bioremediation based on green bridge technology was sanctioned in 2016 at the cost of Rs 15.28 Cr by MoEF&CC and it shows 25% reduction in BOD on six monthly basis.
- He also informed that Punjab Energy Development Agency (PEDA) has already installed one Bio-Gas Plant for Haibowal Dairy Complex, Ludhiana. The Government of Punjab is in process of providing another Bio-Gas Plant for Tajpur Road Dairy Complex.

Shri Suneel Dave, Additional Director and Division Head, UPC-I Division, CPCB requested the 'Monitoring Committee' to take action against the Urban Development and Housing Department of the Punjab State as no representative attended first meeting of the monitoring committee which is a violation of Hon'ble NGT order. He also informed that the installed capacity of STPs in Ludhiana as shown by PPCB is different when compared to the records available with CPCB.

Thereafter, Shri Sudhakar requested the representatives of RSPCB to make his presentation. Dr. V.K.Singhal, Chief Engineer, RSPCB presented the Status of Water Quality of Indira Gandhi Nahar Pariyojna (IGNP), Hanumangarh and Gang Canal, Shri Ganganagar (Rajasthan). He informed that the analysis report of water quality of the IG Canal indicates coliform contamination which is mainly due to untreated sewage discharge from urban/rural discharges of Punjab and presence of turbidity, fluoride, boron and metals (Iron, Zinc) in the water samples at INGP and Gang Canal indicates industrial effluent discharges from Punjab State. RSPCB representative also suggested measures be taken by Punjab for ensuring compliance of the Hon'ble NGT order dated 24.07.2018 as detailed below: -

- Next meeting should be scheduled in Punjab so that the visits to STPs and CETPs could also be planned by the Committee with the concerned officials of CPCB to take the stock of ground conditions.
- Strict actions including closure and filing of prosecutions should be taken against the violating industrial units as well as defaulting municipalities in Punjab as practiced in Rajasthan State.
- Only professional companies should be engaged in operation and maintenance of the STPs and CETPs for better performance and compliance to the effluent discharge standards.



- Raw effluent to the CETPs should be transported through closed conduit pipelines only instead of tankers. However, till such time the closed conduit pipelines are installed, all tankers carrying effluent to CETPs must be GPS enabled for better monitoring.
- All the member units of the CETPs should be connected through SCADA (Supervisory Control and Data Acquisition) System so as to monitor the quantity of effluent being discharged by each member unit. This will help in controlling illegal discharge of effluent by member units.

Thereafter, Shri J.C. Babu, Scientist D, WQM-I, CPCB and Nodal Officer in CPCB in the matter of OA No. 101 of 2014 made a brief presentation. Sh. J.C. Babu, in his presentation, informed that in compliance to the Hon'ble NGT Order dated 24, July 2018 in the matter of O.A No 101/2014, a 'Monitoring Committee' has been constituted by CPCB vide letter dated 06.08.2018 and also presented water quality data for the years 2017 and 2018 related to river Sutlej, Budda Nallah, Rajasthan Canal/ IG Canal at Hanumangarh. He described the way water quality of river Sutlej deteriorates on d/s after confluence of Budda Nallah, East Bein drain. The river water quality improves after confluence with river Beas at Harike barrage. He also showed visible changes in the color of river Sutlej water in a satellite image on Google map. He has mentioned the actions in the form of directions w.r.to control of river Sutlej pollution issued by CPCB from time to time for ensuring compliance by the RSPCB and PPCB. The main issues to be examined by the committee for ensuring compliance to the Hon'ble NGT order dated 24.07.2018 includes (i) Gap analysis w.r.to sewage and industrial effluent management in Punjab; (ii) Performance of existing STPs & CETPs especially at Jalandhar and Ludhiana in Punjab State, (iii) Present status of commissioning of additional capacity STPs/CETPs in Punjab, (iv) Assessment of industries discharging effluents into canals supplying water in Rajasthan (IGNP, Sir Hind and Ferozpur Feeder Canals); (v) Assessment of water quality of river Sutlej, River Beas, East Bein, Buddha Nallah and other drains Kala Singhia and Garha Drain in Punjab as well as assessment of ground water quality, if required in problem areas.

Upon deliberations on the course of actions to be taken by the 'Monitoring Committee', following decisions were taken in the meeting:-

S.No	Activity Proposed	Organisation Responsible for Compliance
(i)	Meeting with all the concerned authorities to be held in First week of September 2018 at Ludhiana for discussions with the concerned stakeholders	PPCB
(ii)	Visit to STPs and CETPs by the 'Monitoring Committee' and Officials of CPCB, PPCB during	PPCB

	September 05-06, 2018 after the Second meeting of the Monitoring Committee	
(iii)	Providing a 'Brief Note' relating to 'Actions taken' in compliance to Hon'ble NGT Orders (earlier) in the matter	Department of Urban Development and Housing, Punjab State Government, Concerned Municipal Corporations in Punjab State and Punjab Water Supply and Sewerage Board
(iv)	Providing information relating to 'Sewage generation and the existing mechanism for its treatment & disposal in Punjab State, as per the format Annexed as Annexure-II (Gap Analysis)	Department of Urban Development and Housing, Punjab State Government, Concerned Municipal Corporations in Punjab State and Punjab Water Supply and Sewerage Board
(v)	Providing information relating to 'industrial effluent generation and the existing mechanism for its treatment & disposal in Punjab State, as per the format Annexed as Annexure-III (Gap Analysis)	PPCB
(vi)	Information with regard to the 'Performance Assessment of STPs, CETPs in Punjab State as per the formats circulated by CPCB to PPCB	Concerned Municipal Corporations in Punjab State and PPCB
(vii)	Waste generation quantities, Waste collected, treated and disposed as per Rules and untreated waste disposal in TPD in Punjab State (in respect of Hazardous waste, bio-medical waste, plastic waste, e-waste, Construction & Demolition waste, Lead Battery waste and Municipal Solid Waste)	PPCB
(v)	Assessment of water quality at all salient points of River Sutlej and its tributaries and all drains contributing to pollution load in River Sutlej.	Joint Team of PPCB and RSPCB
(vi)	Brief Note on 'Performance assessment of captive ETPs of the electroplating, Leather, Dyeing/Textile and other industrial units contributing to the pollution load in River Sutlej in Punjab State	PPCB
(vii)	List of industries in Punjab <ul style="list-style-type: none"> • not having captive effluent treatment facilities • not complying to the Effluent Discharge Norms prescribed by PPCB • not installed OCEMS and or data transfer to the PPCB/CPCB Servers • not a member of the CETPs and indulged in discharge of effluent into drains or sewers leading to pollution load in River Sutlej 	PPCB
(viii)	Status on review of effluent standards for industrial sectors and CETPs and its implementation as well as review of effluent standards for the STPs (wherever applicable/wherever required)	Environment Department of Punjab State Government and PPCB
(ix)	Identification of institutions and also to organize awareness in Punjab State	PPCB
(x)	Organising III rd meeting of 'Monitoring Committee' with	PPCB

	the Stakeholders in III rd Week of September 2018 at Amritsar to discuss on the short term and long term actions as a part of draft report of the 'Monitoring Committee'	
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Besides the above, the committee also express its strong displeasure on absence of the representative of Urban Development Department of the Punjab State despite directions from Hon'ble NGT and CPCB. It was decided that CPCB will write to Principal Secretary, UDH, Punjab to ensure participation of representative of UDH, Punjab in the next meeting/visit. It was also decided that Urban Development Department of the Punjab/PPCB will start taking action on the suggestions made by members of the committee during the meeting. Punjab Pollution Control Board will be coordinating with other State agencies for timely action in submitting information, organising the meeting and visit of the monitoring committee.

Above listed information shall be provided by respective organisation to the Nodal Officer of the Committee (e-mail: jcb.cpcb@nic.in) by 27.08.2018

The meeting ended with vote of thanks to the Chair

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List of Officials Attended First Meeting of the Monitoring Committee held on 10.08.2018 at CPCB, Delhi

S.No	Name of the Official	Designation and organisation
(1)	Shri A.Sudhakar	Addl. Director and DH, WQM-I, CPCB, Delhi
(2)	Shri Balbeer Singh Seechewal	Committee Member
(3)	Dr.V.K.Singhal	CE, RSPCB, Jaipur and Committee Member
(4)	Shri Pradeep Gupta	SEE/CEE, PPCB, Ludhiana
(5)	Shri P.K.Mishra	Addl. Director and DH, IPC-III, CPCB, Delhi
(6)	Shri Ajay Agarwal	Addl. Director and DH, IPC-VII, CPCB, Delhi
(7)	Shri N.K.Gupta	Addl. Director and DH, IPC-IV, CPCB, Delhi
(8)	Shri Suneel Dave	Addl. Director and DH, UPC-I, CPCB, Delhi
(9)	Shri Anil C.Ranveer	Addl. Director, IPC-VII, CPCB, Delhi
(10)	Sh.R.M. Bharadwaj	Consultant Scientist, WQM-I, CPCB, Delhi
(11)	Shri J.Chandra Babu	Scientist 'D' and Nodal Officer, WQM-I, CPCB, Delhi.
(12)	Shri Vishal Gandhi	Scientist 'D', UPC-I, CPCB, Delhi
(13)	Mrs. Suniti Parashar	Scientist 'B', WQM-I, CPCB, Delhi
(14)	Shri Y.N.Mishra	Scientist 'B', IPC-IV, CPCB, Delhi
(15)	Dr. Deepali Agarwal	RA-I, WQM-I, CPCB, Delhi
(16)	Shri Arun Kumar	SA, WQM-I, CPCB, Delhi

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Annexure-II

Sewage contributing to River Beas or Sutlej Pollution/Drains Viz., Buddha Nallah, East Bein, Kala Singhia, Phagwara Drain by all the Towns and Cities in Punjab State :-

Name of the Town or City and District	Population in Lakhs		Water Consumption in MLD		Total Sewage Generation in MLD		Total Sewage presently treated and disposed in MLD	No. of STPs			STPs Capacity in MLD		Discharge Standards prescribed by PPCB to the STPs presently	Final mode of disposal of sewage in Drains/River nearby in MLD		Map indicating with all the details	
	Existing	Expected (in 2040)	Existing	Expected (in 2040)	Existing	Expected in 2040		Existing	Proposed	Under Commissioning	In Operation	Proposed		Treated	Untreated		
																	As attachment

23/01/2

Annexure-III

Industrial Effluent contributing to River Beas or Sutlej Pollution/Drains Viz., Buddha Nallah, East Bein, Kala Singhia, Phagwara Drain by all the Industries located in Towns and Cities in Punjab State :-

Name of the Town or City and District	Industrial Sector		Industrial Effluent Generation in MLD		Total Industrial Effluent presently treated and disposed in MLD		No. of CETPs		CETPs Capacity in MLD			Discharge Standards prescribed by PPCB to the CETPs presently	Final mode of disposal of Industrial Effluent in Drains/River nearby In MLD		Map indicating with all the details	
	Type of industrial sector	No of industries	Type of industrial sector	Total industrial Waste water generation	Captive	Through CETP	Existing	Proposed	Existing	Proposed	Under commissioning		Treated	Untreated		
																Pl. attach as enclosure

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Central Pollution Control Board

(Ministry of Environment, Forest & Climate Change, Govt. of India)
Parivesh Bhawan, East Arjun Nagar,
Delhi – 110032

Minutes of 2nd Meeting of Monitoring Committee held on 06.09.2018 at 'RO, PPCB, Ludhiana' for ensuring compliance to Hon'ble NGT Order dated 24.07.2018 in the matter of O.A No 101/2014 titled Sobha Singh & Ors. Vs State of Punjab & Ors.

Second meeting of the 'Monitoring Committee' constituted by Hon'ble National Green Tribunal (NGT) Order dated 24.07.2017 was held on 06.09.2018 at 'RO, PPCB, Ludhiana'. The list of officials attended the meeting is annexed (Annexure-I)

At the outset, Shri. Rajeev Sharma, Senior Environmental Engineer (SEE), Punjab Pollution Control Board (PPCB), Zonal Office-2, Ludhiana welcomed Shri A. Sudhakar, Divisional Head WQM-I, Central Pollution Control Board, Shri. J Chandra Babu, Scientist-D (Nodal Officer), CPCB, Shri. Balbir Singh Seechewal, Member of Monitoring Committee and the representative of Rajasthan State Pollution Control Board (RSPCB), other members of the Committee as well as officials of Punjab State Government present in the meeting. He informed that officials from Department of Local Government, Housing and Urban Development, Department of Science and Technology, Municipal Corporation of Ludhiana and other officials of Punjab Pollution Control Board are present.

The minutes of 1st meeting of the Monitoring Committee held on 10.08.2018 at CPCB were circulated to all the concerned departments by CPCB. As no observation on the minutes has been received from any quarters and accordingly the minutes of the 1st meeting of the monitoring committee held on 10.08.2018 were confirmed.

Thereafter, Shri A. Sudhakar, Divisional Head, WQM-I, CPCB briefed about the Hon'ble NGT Order dated July 24, 2018 related to control of pollution in River Sutlej as well as River Beas. He apprised the members that the Hon'ble National Green Tribunal (NGT) while taking cognizance from various sources of the fact that quality of surface waters of river Sutlej and River Beas has been affected due to release of contaminated effluents as well as improper sewage management by the local and urban bodies of the Punjab State Government. He also brought to the notice of the officials that the action need to be taken by all the concerned authorities with true spirit in a time bound manner failing which Hon'ble NGT may take action against the concerned officials for not fulfilling the desired responsibilities. Keeping the protection of surface water bodies from further contamination and health of the local public, he emphasised that all the concerned officials of Punjab State Government are required to take necessary corrective measures for ensuring compliance to the directions of Hon'ble National Green Tribunal. Thereafter, he requested Shri Balbir Singh Seechewal, Member to share experience on the observations made during the visit to Sewage Treatment Plants (STPs) in Punjab State.

Shri. Balbir Singh Seechewal, Member of the Committee presented a survey report on various Sewage Treatment Plants (STPs) located in the catchment area of the river Sutlej and River Beas in Punjab State. In light of the decisions taken in the first meeting of the monitoring committee, 44 STPs were visited by him along with the respective regional offices of PPCB. He apprised the Committee that most of the STPs were either lying defunct (Bhattian, Jamalpur, Basti Pirdaad, Phillaur, Ropar Waddi, Maujewal Nangal, Makhu etc) or the effluent was being bye-passed (STPs at Jagraon, Balloki, Nakodar Phillaur, Moga, Anandpur Sahib, Kapurthala, Phagwara etc.) without imparting treatment. At some STPs, operators were not present and some STPs were not in operation as no power backup was provided. It was also seen that where DG sets are available, diesel oil was not available to run the DG sets. All the STPs (except 25 MLD STP Jaitewali, Jalandhar) are not handling the generated sludge in accordance with the law of the land. He expressed his concern about commissioning of STPs by the Punjab State Govt. with huge capital amount of approx. Rs. 1200-1300 Cr. and appeared to be waste as the concerned Local and Urban bodies are not ensuring proper operation of STPs. Indiscriminate discharge of untreated sewage into water bodies lead to contamination of ground water along the banks and the living population of Rajasthan State and Malwa region of Punjab are forced to use contaminated water for drinking purposes, which is the root cause for deterioration of health of local public. The cities of Ludhiana and Jalandhar are two major contributors to the deteriorating water quality of the water bodies and the corrective actions are required without any delay and also he was of the view that Chief Secretary of the Punjab State should take stringent action against the concerned officers/Departments for not performing their duties.

Thereafter, the Committee requested the concerned departments to apprise on the actions taken and proposed in compliance with the Hon'ble NGT order dated 24.07.2018.

(1) Punjab Pollution Control Board

Shri Rajeev Sharma, SEE and representative of PPCB apprised the committee that the desired information has already been submitted to Nodal Officer of CPCB vide letter no. 4942 dated 29-08-2018 as well as through email. The information was examined and found data gaps. The Committee observed that the information provided by PPCB needs to be reviewed and re-submitted including the action plans with time limits keeping in view the restoration of water quality of River Sutlej and River Beas.

(2) Deptt. of Housing & Urban Development

Shri A.S.Dhaliwal, Chief Engineer, representing Local Government, Punjab State and Shri Balwinder Singh, Superintendent Engineer, Greater Ludhiana Area Development Authority (GLADA) representative of Deptt. of Housing & Urban Development informed that they have been nominated as a members of the Monitoring Committee to represent Local Government and Department of Housing and Urban Development of Punjab State Government, respectively. The representative of Deptt. of Housing & Urban Development also informed that they have not installed any STP in Ludhiana. The discharge of domestic effluent from their area development schemes is sent to the sewerage system of Municipal Corporation, Ludhiana, which is finally treated by the Municipal Corporation, Ludhiana. During discussions, it came to the knowledge of the committee that some STPs are also installed and being operated by Deptt. of Housing & Urban Development. It was clarified by the representative of Deptt. of Housing & Urban Development that these STPs have been installed by their department on the directions of Punjab State Govt. as the concerned ULB did not have sufficient funds. After detailed deliberations, the committee decided that Deptt. of Local Govt. in consultation with the Deptt. of Housing & Urban Development and other departments shall provide a detailed report mentioning the location of the STPs, name of the owner/occupier, Deptt./agency

responsible for operation and maintenance, contact details and other relevant information (action plans with time lines) required for finalization of the Committee's report. Committee also suggested the afore-said members to communicate officially with respect to their nominations as members of the Committee.

(3) Municipal Corporation, Ludhiana

Shri A.S.Dhaliwal, Chief Engineer, representative of the Local Government, Punjab State informed that 5 STPs of capacity 48 MLD (UASB), 111 MLD (UASB), 50 MLD (SBR), 152 MLD (UASB) and 105 MLD (SBR) are presently operational in Ludhiana at three different locations viz., Jamalpur (01), Bhattian (2 Nos) and Balloke (2 Nos) respectively. Shri Adish Bansal, SDO (MLL), Municipal Corporation, Ludhiana in his presentation informed that there are 62 towns generating sewage of 1159 MLD on river Sutlej and having 45 STPs with installed capacity of 980 MLD with a gap of about 161 MLD. In case of River Beas, there are 20 towns generating 108 MLD of sewage and, having 10 STPs with installed capacity of 76 MLD with a gap of about 32 MLD. He has also informed that the 21 towns (viz., Jaitu, Arniwala, Kotkapura, Ferozepur (AMRUT), Gidderbaha, Guruharsahai, Morinda, Shahkot, Adampur, Balachaur, Rahon, Patti, Goraya, Samrala, Faridkot, Garhshankar, Maluka, Kiratpur Sahib, Adampur, Balachaur, Raikot) generating sewage of about 90.5 MLD is being discharged untreated into nearby drains. In case of Municipal Corporation limits of Ludhiana and Jalandhar, about 140-150 MLD and 66 MLD untreated sewage is discharged into drains. The representatives of MCL also informed that the existing STPs are inadequate as the water supplied to the public is more than 135 lpcd (i.e., around 300 lpcd) and there is a need for taking a policy decision by the Punjab State Government. PWSSB has created a web Portal (www.Pmidc.punjab.gov.in/PWSSB) on which every Wednesday, effluent analysis reports of the samples tested from the In-house labs, NABL approved Labs and quarterly report of PPCB are uploaded in public domain. MCL representatives also informed that there are multiple outlets of about 10 Dairies near Jaswal Complex, Tajpur Road which is outside MCL limit. The Committee suggested PPCB to take immediate action on such dairies. MCL representatives also apprised about the measures taken and action proposed for ensuring sewage management in the catchment of Rivers Sutlej and Beas.

With reference to the non-compliance to the discharge norms by STPs, the representative of the Municipal Corporation, Ludhiana submitted that the effluent at the inlet of STP is far exceeding the designed range of parameters and inadequate capacity are the reasons for STPs unable to achieve the prescribed effluent discharge norms. The justification given by the Municipal Corporation, Ludhiana was felt unsatisfactory by the committee. Also, the Committee felt that disinfection of the treated effluent is not being done prior to discharge of effluent from STPs as most of the samples collected by the committee members w.r.to Faecal coliform is not complying to the prescribed limits. The representative of the Municipal Corporation, Ludhiana (MCL) could not satisfy the committee regarding valid reasons for non-operation of the STPs. The representative of the MCL apprised the committee that DPR for the rehabilitation of all the existing 3 STPs based on UASB technology has been finalized. A timeline for completion of the project has been fixed as 9 months and a sum of Rs. 18.92 Cr. has been approved by State Level High Powered Committee. Two effluent treatment plants have also been proposed under AMRUT Scheme for treatment of effluent at Tajpur and Haibowal dairy complex with 5 MLD and 10 MLD capacities respectively. The proposal has been approved by State Level Technical Committee and will now go to State Level High Powered Committee for its approval. The project is proposed for completion in 15 months after finalization of DNIT. After deliberations, the committee felt that an action plan with time lines for all the cities/towns located in the catchment areas of River Sutlej and River Beas should be submitted as per the format circulated.

(4) Municipal Corporation, Jalandhar and other Local Bodies

No representative of the Municipal Corporation, Jalandhar attended the meeting. The Committee suggested Shri A.S. Dhaliwal, Chief Engineer to ensure all the representatives of Local Govt will attend the next meeting to apprise the Committee and also to ensure submission of the action plans with time lines pertaining to the respective jurisdiction prior to the next date of Committee meeting, for ensuring compliance to the Hon'ble NGT order dated 24.07.2018.

(5) Punjab Water Supply and Sewerage Board

No representative of the Punjab Water Supply and Sewerage Board attended the meeting. The representative of the Local Govt. Shri A.S.Dhaliwal, Chief Engineer assured Committee that he will pursue with the concerned Department to submit the time bound action plan prior to the next meeting of the Committee.

(6) Identification of Educational Institutions to create awareness among children

On the issue of creating awareness among children, Shri Balbir Singh Seechewal apprised the committee that he is already doing the task by organizing various events to create awareness among the masses including children. If required, he can organise such programmes further. Committee felt that there is a need for issuance of public notice in the local electronic media and in local daily newspapers in vernacular languages that any industry indulged in illegal effluent discharge from the industries in the catchment of River Sutlej and River Beas should bring it to the notice of either Punjab Pollution Control Board or Shri Balbir Singh Seechewal, Member of the Committee, for examining and further actions against such industries by PPCB.

Upon deliberations on the course of actions to be taken by the concerned authorities, the 'monitoring committee', taken following decisions in the meeting as detailed below:-

- a) Sub-committee members comprising Shri Balbir Singh Seechewal, Member, Shri Rajeev Sharma, SEE, Punjab Pollution Control Board; the representative of RSPCB, Shri A.S.Dhaliwal, CE, Member, Local Govt. Punjab State shall plan for collection of drain samples before confluence of river Sutlej and River Beas as well as river Sutlej and River Beas samples at all points on upstream and downstream at the confluence of drains with the respective rivers within the Punjab State. The samples should be collected, preserved and analysed in Punjab PCB laboratory for the physio-chemical parameters (such as pH, EC, TDS, TSS, DO, SO₄, NH₃-N, O & G, Chloride, BOD, COD, Fluoride), biological (Fecal Coliform and Total Coliform) and heavy metals (such as Cr⁺⁶, Cr⁺³, Total Chromium (Cr), Cadmium (Cd), Copper (Cu), Iron (as Fe), Zinc (Zn), Manganese (Mn), Lead (Pb), Nickel (Ni), Mercury (Hg) and Cyanide (CN) as per the standard protocols. Photographs while sampling also be taken. Above sub-committee shall also visit two CETPs located at Ludhiana and Jalandhar and CETP outlet samples for analysis of the parameters as per the consents under Water (Prevention and Control of Pollution) Act, 1974 granted by PPCB shall be collected and analysed in PPCB Laboratory. Observations and findings shall be presented in the next meeting of the Monitoring Committee by the sub-committee.
- b) Committee also suggested two members representing Department of Housing and Urban Development and Local Government of Punjab State Government to review and to pursue with all the concerned local and urban departments for early submission of the actions plans with time lines, by 24.09.2018 for finalization of the report of the committee
- c) The Sub-committee shall fix schedule of sampling of drains, river Sutlej and Beas and also visit to CETPs at Ludhiana and Jalandhar. The schedule of sampling and visits to

CETPs also be informed to the nodal officer at CPCB. If possible, CPCB shall also join for sampling and for visit to CETPs.

- d) Other decisions taken in the 2nd meeting of the Monitoring Committee on 06.09.2018 are given in the subsequent paras:-

1	Action plans with time limits in the form of affidavits submitted earlier in case of River Beas and River Sutlej in compliance to the Hon'ble NGT orders issued, in the past (prior to the order dated 24.07.2018)	By PPCB
2	Submission of information w.r.to area-wise industrial effluent management as per the format circulated in first meeting of the monitoring committee held on 10.08.2018 at CPCB after review by the Chairman/Member Secretary of PPCB	By PPCB
3	Brief Note on 'Performance assessment of captive ETPs of the electroplating, Leather, Dyeing/Textile and other industrial units located in the catchment of River Sutlej and River Beas and contributing to the pollution load in River Sutlej and River Beas in Punjab State	By PPCB
4	Brief Note on 'Performance assessment of CETPs located in the catchment of River Sutlej and River Beas contributing to the pollution load in River Sutlej and River Beas in Punjab State	By PPCB
5	List of industries located in the Catchment of River Sutlej and River Beas in Punjab State <ul style="list-style-type: none"> • Sector-wise number of industries, list of industries not having consents and authorisation under Water Act, 1974 and HW & OW (M & TM) Rules, 2016 respectively • Sector-wise total water consumption (in MLD), consented industrial effluent discharges, quantity of treated wastewater recycled/reused (in MLD) and total industrial effluent discharged (in MLD) into nearby drains • Industries not having captive effluent treatment plant – to close such industries under E (P) Act, 1986 • Industries having captive ETP but not complying to the Effluent Discharge Norms prescribed by PPCB –To be issued show cause or closure under E (P) Act, 1986 • Action taken against 17 category industries which have not installed OCEMS and or no data transfer to the PPCB/CPCB Servers • Industries not having membership of the CETPs <ul style="list-style-type: none"> - Only primary ETPs - Both primary and secondary ETP 	By PPCB
6	Status of action plans complied so far and proposed action plans with time lines (with responsible authorities for its implementation) for prevention and abatement of pollution of River Sutlej and River Beas w.r.to industrial effluent generated from the industries located in the catchment of River Sutlej and River Beas.	By PPCB
7	A digital map pertaining to River Sutlej and River Beas showing area-wise major industry/sector-wise no. of industries, area-wise (i) total water consumption in MLD, (ii)	By PPCB

	total industrial effluent generation in MLD, (iii) location of CETPs with capacity in MLD, (iv) total no. of industries having captive ETPs (v) total no. of member industries of CETPs; (vi) sector-wise total quantity of treated industrial effluent disposal and the final mode of disposal; (vii) total quantity of total industrial effluent disposed by CETPs and final mode of disposal of treated effluent by CETPs; (viii) drains contributing to pollution load in River Sutlej and River Beas; (ix) Transport through trucks, tracking etc.,	
8	A digital map pertaining to River Sutlej and River Beas showing towns/cities, details of population (including expected in the year 2040), sewage generation (in MLD), STPs located with capacities (in MLD), drains joining River Sutlej and River Beas (from source of drain and the point of drain joining with River Sutlej and Beas with GPS details)	By Urban Development and Housing, Local Government, State Govt. of Punjab
9	Providing information relating to area-wise 'Sewage generation conveyance and the existing mechanism for its treatment & disposal in Punjab State, as per the format circulated in first as well as second meeting of the monitoring committee	By Department of Urban Development and Housing, Local Body, Concerned Municipal Corporations in Punjab State, Punjab Water Supply and Sewerage Board of Punjab State Government.
10	<p>To submit a copy of the action plans and the time lines submitted to Hon'ble NGT in compliance to the Orders of Hon'ble NGT issued from time to time and the actions so far complied (as referred in the Hon'ble NGT order dated 24.07.2018).</p> <p>Proposed action plans with time limits and the concerned authority responsible for compliance, for abatement and control of Pollution of River Beas and River Sutlej (w.r.to ensuring proper sewage management) in compliance to the Hon'ble NGT Orders dated 24.07.2018.</p> <p>Action plan for ensuring proper operation and maintenance of existing STPs in Operation</p> <p>Actions for mixed wastewater (i.e., industrial effluent + domestic sewage) reaching STPs</p>	By Department of Urban Development and Housing, Local Body, Concerned Municipal Corporations in Punjab State, Punjab Water Supply and Sewerage Board of Punjab State Government,

11	STP-wise and CETP-wise, name, designation and address with contact Tel. and Mobile number of senior most officer and the officer directly responsible for ensuring proper operation and maintenance of each STPs/CETPs located in the catchment of River Sutlej and River Beas within the Punjab State should be provided to the Monitoring Committee by 25.09.2018	By PPCB, Department of Urban Development and Housing, Local Body, Concerned Municipal Corporations, Punjab Water Supply and Sewerage Board of Punjab State Government.
12	Placing of Minutes of the Monitoring Committee in web portals of PPCB, CPCB and other related matters	CPCB, PPCB and Local Government, Govt. of Punjab State
13	Status on review of effluent standards for industrial sectors and CETPs and its implementation as well as review of effluent standards for the STPs (wherever applicable/wherever required)	Environment Department of Punjab State Government and PPCB

Before conclusion, Shri J. Chandra Babu, Member representing scientist /engineer and Nodal Officer from CPCB informed that the Monitoring Committee constituted by the Hon'ble NGT order dated 24.07.2018 is required to file its report before 31.10.2018 and next date of hearing on the matter would be on 14.11.2018. Therefore, he requested all the concerned departments of the Punjab State Government should complete preparation of action plans with time limits keeping in view the restoration of River Sutlej and River Beas from the present pollution scenario and shall submit the action plans approved by the respective Heads of the Departments of Punjab State Government by 25.09.2018 and such prepared plans should also be presented in the next meeting of the monitoring committee. Also, all the concerned departments of Punjab State Government should appoint one nodal officer and details of nodal officer, contact details with complete address should also be provided within a week to the nodal officer of CPCB (by e-mail at jcb.cpcb@nic.in) for easy co-ordination. Shri J.C.Babu also requested Shri R.Sharma, SEE, RO, PPCB, Ludhiana and Shri A.S.Dhaliwal, Local Government should pursue with all the concerned departments for ensuring submission of the desired information positively by 24.09.2018 to Shri A.Sudhakar, AD, WQM-I Division in CPCB for further discussion in the next Monitoring Committee meeting. He also thanked PPCB for making necessary arrangements for organizing this meeting.

It was also decided that the next review meeting of the monitoring committee will be held on 26-09-2018 at Jalandhar.

The meeting ended with vote of thanks to the Chair.

Annexure-IList of Participants

Second Meeting of the 'Monitoring Committee' held on 06.09.2018 at Ludhiana for ensuring compliance to Hon'ble NGT Order dated 24.07.2018 in the matter of O.A. No. 101/2014 titled Sobha Singh & Ors. Vs State of Punjab & Ors.

Sr. No	Name of the Official, Designation and Organization
1.	Shri. A.Sudhakar, AD, CPCB, Delhi
2.	Shri. Balbir Singh Seechewal, Member of the Committee
3.	Shri. J.Chandra Babu, Scientist 'D', WQM-I, CPCB, Member and Nodal Officer, CPCB
4.	Shri Niraj Mathur, SEE, Representative of RSPCB, Jaipur
5.	Shri A.S. Dhaliwal, Chief Engineer, Local Government, Ludhiana
6.	Shri Balwinder Singh, S.E. Greater Ludhiana Area Development Authority (GLADA)
7.	Shri Ravinder Garg, SE (O &M), Zone-A/D, Municipal Corporation, Ludhiana
8.	Shri Rajinder Singh, Nodal Officer, Municipal Corporation, Ludhiana
9.	Shri Virender Singh, Department of Town Planning, Ludhiana
10.	Shri A.K. Kalsi, SEE, ZO-1, PPCB, Ludhiana
11.	Shri Rajeev Kumar Sharma, SEE, ZO-2, PPCB, Ludhiana
12.	Shri Ashok Kumar Garg, EE, PPCB, Regional Office-2, Ludhiana
13.	Shri Paramjeet Singh, EE, PPCB, Regional Office-3, Ludhiana
14.	Shri Inderjit Singh, STP, Ludhiana on behalf of CTP, Punjab
15.	Shri Karnail Singh, X-en (PA), Greater Ludhiana Area Development Authority (GLADA)
16.	Shri Adish Bansal, SDO (MLL), Municipal Corporation, Ludhiana
17.	Shri Jaspal Singh Grewal, PCS , ACA GLADA

**Central Pollution Control Board**

(Ministry of Environment, Forest & Climate Change, Govt. of India)
Parivesh Bhawan, East Arjun Nagar,
Delhi - 110032

Minutes of 3rd Meeting of the Monitoring Committee held on 26.09.2018 at 'PPCB, Jalandhar' for ensuring compliance to Hon'ble NGT Order dated 24.07.2018 in the matter of O.A No 101/2014 titled Sobha Singh &Ors. Vs State of Punjab &Ors.

Third meeting of the 'Monitoring Committee' constituted by Hon'ble National Green Tribunal (NGT) Principal Bench (PB), New Delhi Order dated 24.07.2017 was held on 26-09-2018 at PPCB, Jalandhar. The list of who officials attended the meeting is annexed (**Annexure-I**).

At the outset, Shri. Pawan Garg, Chief Environmental Engineer (CEE), Punjab Pollution Control Board (PPCB), Ludhiana welcomed Shri. Balbir Singh Seechewal, Member of Monitoring Committee, Shri. J Chandra Babu, Scientist-D (Nodal Officer), CPCB, Shri A.S. Dhaliwal, Member representing Local Government, Punjab State, the representative of Rajasthan State Pollution Control Board (RSPCB) as well as officials of Punjab State Government present in the meeting.

Thereafter, Shri J Chandra Babu, Scientist-D (Nodal Officer), CPCB requested Shri Balbir Singh Seechewal, being a Member of the Punjab Pollution Control Board and also a Member of the Monitoring Committee constituted by Hon'ble National Green Tribunal (NGT) to Chair the today's meeting of the Monitoring Committee.

Shri. Balbir Singh Seechewal, in his opening remarks mentioned that he has been fighting for control of River Sutlej and Beas pollution since 2008. He also stated that he has been conveying to the Local Bodies about the water had become unfit for drinking. In 2011, after Kala Singhian Kala Singhian drain was blocked, then the Divisional Commissioner (DC), Jalandhar Shri R.S. Ladhar, IAS, had assured him that the necessary corrective measures would be taken within a month and thereafter a committee was constituted to examine the issues for the purpose but ultimately nothing happened. He does not have any personal ill will with any officer but due to the negligence on their part, discharging of untreated waste water into rivers/drains cannot be allowed to be continued. As the damage has already been done the responsible officers need to be punished. Water flowing in the rivers of Punjab is of E-grade and ground water is also getting polluted and many peoples are suffering from diseases. For all this evil incidences, responsibility is required to be fixed. Even rare fish/species have been eliminated from these rivers of Sutlej and Beas but nobody cares. He has been building pressure over municipalities/local bodies in his capacity as a member of PPCB.

He is also of the view that in order to save Punjab from further becoming a dark zone, the Municipal Corporations, Municipal Committees and Central Ground Water Authorities should allow public to draw only that quantity of underground water which it can treat so that the whole consumed water is treated and untreated water does not flow into the natural water sources and contaminate them.

He also expressed his concern that out of 3 months granted to the Monitoring Committee, two months have already been elapsed but concerned departments are yet to make considerable progress on compliance to the Hon'ble NGT Order dated 24.07.2018. He once again requested all the Heads of Departments to take necessary action for ensuring compliance to the Hon'ble NGT Order dated 24.07.2018 and also all the nodal officers to co-ordinate with Shri J.Chandra Babu, Sc 'D' and Nodal Officer, CPCB.

Confirmation of minutes of the 2nd meeting of the Monitoring Committee held on 06.09.2018:-

Shri J.Chandra Babu, Sc'D', WQM-I informed to the officials that upon approval, the minutes of 2nd meeting of the Monitoring Committee held on 06.09.2018 at PPCB, Ludhiana were circulated to all the concerned departments by CPCB including Chief Secretary, Punjab State Government. As no observations on the afore-said minutes had been received from any quarter and accordingly the minutes of the 2nd meeting of the monitoring committee already circulated were confirmed.

Thereafter, Shri J.Chandra Babu apprised that Hon'ble NGT in its orders dated 14.09.2018 in the matter of O.A. No. 345 of 2018 titled as Amber Sachdeva Vs. Union of India (UOI) & Ors and O.A. No. 344 of 2018 titled as Sukhpal Singh Khaira, MLA, Punjab Assembly & Ors Vs Union of India & Ors. related to spillage of molasses from M/s Chaddha Sugar Mills, Village Kiri Afgana, Distt. Gurdaspur into river Beas (in the month of May, 2018) has also been referred the matter to this Monitoring Committee. Therefore, he informed that this monitoring committee has to look into the afore-said matters also. As the committee is not aware about the issues, he also requested Shri G.S Majithia, Chief Environmental Engineer (CEE), Punjab Pollution Control Board (PPCB), Jalandhar to mention briefly about the incident that occurred and subsequent actions taken by PPCB. Shri Majithia stated that on 16.05.2018, the incident of spillage of molasses from M/s Chaddha Sugar Mills, Village Kiri Afgana, District Gurdaspur into river Beas came to the notice of the PPCB. Based on the observations made by the team of PPCB officials and the recommendations of the visiting team, PPCB vide letter No. 1436 dated 17-05-2018 issued directions under section 33 A of the Water Act, 1974 for closure of the industry and also sealed the plant & machinery of the afore-said sugar mill. Also, Bank Guarantee of Rs. 25 Lacs submitted by the afore-said industry to PPCB was forfeited and Consent to Operate was revoked. Further, a team headed by CEE, Jalandhar and accompanied by SEE, Amritsar and EE, Regional Office, Batala visited the site on 21/05/2018 and the industry viz., M/s Chadha Sugars and Industries Pvt. Ltd. was heard by the Chairman, PPCB on 24/05/2018. After hearing the matter in detail, based on the decisions taken, directions were issued to the afore-said Unit for carrying out remedial measures. He also stated that PPCB has also constituted committees to suggest necessary measures to ensure that such incidents do not re-occur in future. He also informed that departments were identified for preparation and submission of action plans for conservation and restoration of ecology of river 'Beas' including rejuvenation of aquatic life in river Beas. The PPCB Committee met twice on 18.06.2018 and 26.06.2018 and prepared draft action plans and the same have been examined by Expert Committee in a meeting held on 24.08.2018 at Head Office, Patiala for evaluation and the departments have been directed to submit the revised Action Plans so that the same can be scrutinized by Expert Committee and finalized thereafter by the Board. Upon receipt of a sum of Rs. 1.25 crore from the afore-said Unit, PPCB has released Rs. 25.0 lakhs to Department of Forest & Wildlife Preservation, Punjab and subsequently, Department of Forest & Wildlife Preservation, Punjab has released about 20 lakh fishes in river Beas as a measure of rejuvenation and restoration of ecology of River Beas.

Shri. J Chandra Babu, Scientist-D (Nodal Officer), CPCB further stated that in the last meeting, certain decisions were taken and respective departments were asked to submit action taken report by 24-09-2018. He also stated that response from concerned departments has been very poor. It appears Department of Urban Development & Housing, Water Supply and Sanitation Department, Govt. of Punjab and Municipal Committees have submitted only details on STPs to the Member of the Committee representing Local Government, whereas PPCB has submitted the action taken report to CPCB as per the decisions taken in the earlier two meetings. Therefore, Chairman of 3rd meeting of the Monitoring Committee suggested including Department-wise concerned Head as well as Nodal Officers responsible for ensuring compliance to the Hon'ble NGT order dated 24.07.2018, as a part of the Committees report before the Hon'ble NGT for consideration and same is included as **Annexure-II**.

Thereafter, formal agenda of the meeting was taken up by the Monitoring Committee. Submission of action taken reports on Hon'ble NGT order dated 24-07-2018 as apprised to the committee by the concerned departments is given in subsequent paras:-

1) **Punjab Pollution Control Board:-**

Shri Rajeev Sharma, Senior Environmental Engineer, Zonal Office-2, Ludhiana informed that action taken report has already been emailed, and a hard copy of the same was also submitted during the meeting.

2) **Department of Housing & Urban Development /GLADA:-**

The representative of GLADA informed that they are operating and maintaining STPs of 4 no. towns i.e. Mullanpur, Maloud, Payal and Doraha. The treated waste water of all the said four towns is supplied to farmers for irrigation and is not discharged into any drain/river directly or indirectly. Similarly, STP installed at Kurali is being operated and maintained by GMADA and treated waste water is given to farmers for irrigation.

3) **Municipal Corporation, Jalandhar:-**

Shri Kishore Bansal, Superintending Engineer and Shri Gagan Luthera, Assistant Engineer, Municipal Corporation, Jalandhar representatives of Municipal Corporation, Jalandhar

made a presentation about the status of generation, treatment and disposal of sewage under the jurisdiction of Municipal Corporation (MC), Jalandhar. The representatives of Municipal Corporation, Jalandhar clarified that observations on the STP as indicated in the survey report of the Committee member (i.e., Shri Balbir Singh Seechewal) have been complied with and records are being maintained. In response, Shri Balbir Singh Seechewal decided to verify the same after the meeting, by the Committee.

Chief Environmental Engineer, PPCB, Jalandhar apprized the committee that (i) There is no arrangement as well as future action plan with Municipal Corporation, Jalandhar for handling about 10 MLD of effluent generated from Jamsheer Dairy Complex; (ii) Part of untreated sewage of Jalandhar city is being discharged directly into Kala Singhian drain which is required to be diverted to Peer Daad STP. Indian Railway has already done their part of job on Jalandhar-Ferozepur Railway line, but PWSSB is connecting the same with Peer Daad STP. In response to the above issue, Chief Engineer, PWSSB informed the Committee that tenders for the work have been received and work is expected to be allotted shortly. The work is likely to be completed within 4 months.

4) Municipal Corporation, Ludhiana:-

Shri Ravinder Garg, Superintending Engineer and the representative of Municipal Corporation, Ludhiana made a presentation regarding status of sewerage generation and treatment facilities available with the Corporation as well as their future plans which include total waste water generation of Ludhiana town as 512 MLD. 5 STPs of capacity 48 MLD (UASB), 111 MLD (UASB), 50 MLD (SBR), 152 MLD (UASB) and 105 MLD (SBR) are presently operational in Ludhiana at three different locations viz., Jamalpur (01), Bhattian (2 Nos) and Balloke (2 Nos) respectively. To cope up with the excess discharge at this STP, capacity enhancement of STP (50 MLD) is required and it would be based on latest technology and the proposal of STP for Jamalpur has already been approved by the State Level Technical Committee (SLTC) in its meeting held on 28.08.2018 and the same shall now be submitted to State Level High Power Steering Committee for final approval.

On the afore-said matter, Punjab Pollution Control Board apprized the committee that there is a mismatch between the quantity of sewage generation reported by Municipal Corporation, Ludhiana before the Committee today and the quantity of waste water generation already reported to PPCB. As per records of PPCB, total waste water generation of Ludhiana city is about 750 MLD and present treatment capacity of five STPs combined together is 466 MLD. As such, there is a gap of approx. 284 MLD in the quantity of waste water generated and treated. To this observation, Municipal Corporation, Ludhiana clarified that out of total waste water generation of 750 MLD, about 120-150 MLD is industrial trade effluent and with the coming up of proposed 3 no. CETPs, the industrial effluent will be discharged directly into Budha Nallah and will not be passed through STPs. Moreover, there is a proposal to provide metered water supply in Ludhiana city to check the water consumption and with the implementation of these measures, quantity of water consumption vis-à-vis waste water generation is expected to be reduced considerably. As such, the total expected waste water generation including future projections upto year 2040 has been estimated to be 512 MLD.

PPCB also apprized the committee that the issue of installation of 3 no. CETPs for dyeing units in Ludhiana is hanging for the last 10 years and no significant physical progress has been made except in case of 15 MLD CETP at Bahadurke Road, Ludhiana. Besides, the installation work of 50 MLD CETP (Tajpur Road- Rahon Road Module) and 40 MLD CETP (Focal Point Module) is held for the last more than two years due to financial contributions of SPV. Moreover, in case of 50 MLD CETP at Tajpur Road, MoEF& CC has already declined any kind of financial support/subsidy as the scheme stands scrapped by the ministry. As such, it was suggested that Municipal Corporation, Ludhiana should consider the quantity of industrial effluents also while planning the treatment facility requirements.

5) Department of Water Supply & Sanitation:-

The representative of Department of Water Supply & Sanitation, Govt. of Punjab informed the Committee that two no. of STPS located at Shri Anadpur Sahib and Bagha Purana are under their control. The STP at Bagha Purana is yet to be commissioned. Regarding operation of STP at Shri Anadpur Sahib, the representative of Department of Water Supply and Sanitation, Punjab clarified that they are in the process of complying with the observations made in the survey report submitted by Sh. Balbir Singh Seechewal. To

remove the sludge, sludge gear which was defective is being repaired. Similarly, bye-pass which exists since construction of STP but it is not used, same will be plugged permanently.

6) Municipal Corporation, Jalalabad:-

Shri Jasmandar Singh, Assistant Municipal Engineer, Municipal Council, Jalalabad The representative of the Municipal Corporation, Jalalabad informed that STP of 8 MLD capacity is working satisfactorily.

7) Punjab Water Supply & Sewerage Board:-

Shri Mukhtiar Singh, Superintending Engineer and Ms. Lata Chauhan, Executive Engineer made a presentation on the status of STPs as well as proposed action plan for ensuring compliance to the directions as detailed below:-

River Sutlej:- There are 62 towns discharging 1159 MLD of wastewater directly or indirectly into river Sutlej. Presently, 991 MLD waste water is treated through 46 STPs. Work of installation of 12 STPs for treating additional 67 MLD of waste water is under progress. In 9 towns, construction work of STPs for a total treatment capacity of 32 MLD is also expected to commence shortly. In case of remaining 15 towns generating 44 MLD sewage, there is no sewerage conveyance system.

River Beas:- There are 16 towns generating 108 MLD of sewage which is being discharged into river Beas directly or indirectly. Out of 16 towns, 6 STPs of combined capacity 76 MLD have been completed and are operational. In 8 towns, construction work of STPs having combined treatment capacity of 20 MLD is expected to commence shortly. In case of remaining 6 towns, generating 12 MLD of sewage, there is no sewerage system for which action plan will be included.

Shri Mukhtiar Singh, Superintending Engineer, PWSSB informed the Committee that efforts are being made to take remedial measures against the shortcomings pointed out in the STP survey report of the Committee. But, he stated that major hurdle for proper operation of STP is mainly due to non-availability of funds. Municipalities are not providing adequate funds to PWSSB for proper operation and maintenance of STPs. The Committee suggested PWSSB to allocate adequate funds for ensuring proper operation of the STPs in operation.

As the committee observed that there is also a reference w.r.to hazardous and bio-medical waste disposal by Hon'ble NGT in its order dated 24.07.2018, issues relating to the status of generation and disposal of hazardous waste as well as Bio-Medical waste in the catchment areas of river Sutlej and river Beas were also discussed with the representatives of Common Hazardous Waste Treatment, Storage & Disposal Facility (TSDF), Nimbua and a Common Bio-medical Waste Treatment and Disposal Facility (CBWTF) located at Ludhiana.

8) Decisions and Recommendations of the Monitoring Committee:-

Upon deliberations on the course of actions to be taken by the concerned authorities, the following decisions were taken by the Monitoring Committee:-

- (i) Considering the date of incidence of molasses discharge into river Beas and the issue needs to be examined by the Monitoring Committee in compliance to the order dated 14-09-2018 in the matter of O.A. No. 345 of 2018 titled as Amber Sachdeva Vs. Union of India (UOI) & Ors. and O.A. No. 344 of 2018 titled as Sukhpal Singh Khaira, MLA, Punjab Assembly & Ors Vs Union of India & Ors, the action plans for restoration of ecology of river Beas including rejuvenation of aquatic life in river Beas which are being examined by the expert Committee constituted by the PPCB, the Monitoring Committee felt that PPCB committee shall finalise their recommendations within a month and thereafter PPCB shall submit to the finalised action plans with respect to the River Beas to the Monitoring Committee for filing before the Hon'ble NGT for consideration. The Committee also advised PPCB to present on the above matter in the next meeting of the Monitoring Committee.
- (ii) The names of the Heads of the Departments as well as respective nodal officer responsible for submission of action plans with time lines for ensuring compliance to the Hon'ble NGT order dated 24.07.2018 also should be included in the final report to be submitted to Hon'ble NGT.

- (iii) CEE, PPCB, Jalandhar was requested to submit 'a brief note' on the incidence of discharge of molasses in river Beas and subsequent actions taken by PPCB with all the supporting documents to the Nodal Officer of CPCB, *within a week time*.
- (iv) PPCB shall verify the compliance status of STPs which are operated by GLADA and located at Mullanpur, Maloud, Payal, Doraha and Kurali which have been reported to be not discharging any treated waste water into any river/drain and are utilizing the same onto land for irrigation. Treated sewage samples at STPs outlet also be collected and get analysed for relevant parameters for use of treated sewage for irrigation purpose. Detailed report as per the CPCB format along with analysis results should be submitted to the Nodal Officer, PPCB, *within three weeks' time*.
- (v) The Municipal Corporation, Jalandhar was suggested (by PPCB) to include in the action plan for management of 10 MLD of effluent generated from Jamsher Dairy Complex.
- (vi) The samples of sludge generated from all the STPs located in the catchment of River Sutlej and River Beas should be collected and get analysed by the operating agencies for relevant parameters in consultation with PPCB through a laboratory approved under the E (P) Act, 1986 or NABL approved laboratory and disposal options should be followed by all the STP operators as per norms of Punjab Pollution Control Board. *The analysis results of STPs sludge for its use as manure shall also be submitted to the Monitoring Committee and PPCB, within three weeks' time*.
- (vii) Superintendent Engineer, Punjab Water Supply & Sewerage Board (PWSSB) was suggested to ensure that all the STPs under their control are operated properly including disposal of sludge in accordance with the law of the land, *within two weeks' time*.
- (viii) As all the departments are claiming that necessary remedial measures were taken in STPs as per recommendations of the survey report of STPs made by Shri Balbir Sibgh Seechewal, Committee directed PPCB to carryout surprise inspection of at least 10 STPs (located in the catchment of river Sutlej and River Beas) being operated and maintained by the different departments and compliance verification reports (covering aspects such as status of consents, name of the operator, STP capacity, unit operations in the STP with flow diagram, technology adopted for treatment of sewage in the STP, total sewage treated based on the electromagnetic flow meters at the out let during the last one month, treated sewage final disposal mode, sludge generation quantity, influent and out characteristics of sewage for relevant parameters, other observations) along with analysis results of STP outlet should be submitted to the Monitoring Committee, *within three weeks' time* by PPCB. The report also should indicate names of the PPCB officials inspecting the STPs for further discussion if required.
- (ix) Department of Rural Development & Panchayats was directed to identify all the rural areas/villages/Panchayats which are contributing to various drains falling in the catchment areas of river Sutlej and river Beas and also to prepare action plans for management of sewage generated from such identified areas. To discuss this issue, Director, Rural Development and Panchayats also be invited in the review meeting of the committee proposed to be held in 1st/2nd week of October, 2018 at Ludhiana. The Director, Rural Development and Panchayats along with concerned officer (s) responsible for preparation/implementation of action plans should attend the review meeting.
- (x) All Municipal Corporations, Local and Urban Departments, Punjab Water Supply and Sewerage Board, Department of Water Supply and Sanitation and any other concerned department, Government of Punjab shall submit GPS locations, address of location of tube well and ground water analysis results of all the tube wells which are being used for the purpose of supply of drinking water, in the review meeting scheduled in 1st / 11th week of October, 2018, at 'PPCB, Ludhiana'
- (xi) A copy of report of research/study carried out by Punjab Agriculture University, Ludhiana on Buddha Nallah shall be procured by PPCB and data from the said report should be made available to the Monitoring Committee in a review meeting scheduled on 1st / 11th week of October, 2018, at 'PPCB, Ludhiana'.
- (xii) The Punjab Water Supply & Sewerage Board shall complete the work related to diverting of domestic effluent, which is presently being discharged into Kala Singhian drain but is required to be diverted to Peer Daad STP *within a period of 2 months* for which tenders have been received and are under finalization.

- (xiii) As the Sub-committee which was constituted in the 2nd meeting of the Monitoring Committee for the purpose of collection of samples of drain as well as river Sutlej and Beas could not complete the task due to the recent heavy rains, the team comprising of Nodal Officer, CPCB, representatives of PPCB & RSPCB, member representing Local Body and representatives of Shri Balbir Singh Seechewal shall complete the sampling task in 1st /IInd week of October 2018. Meanwhile, PPCB and Local/Urban bodies shall identify the sampling locations and prepare the digital map showing the sampling locations of river Sutlej, River Beas and all the major drains outfalls confluenting river Sutlej and river Beas.
- (xiv) Department of Health & Family Welfare, Government of Punjab shall conduct health survey in the catchment areas of River Sutlej, River Beas and drains namely Buddha Nallah, Kali Singhian, East Beas etc., and report shall be submitted to the Monitoring Committee within a month. PPCB shall follow-up with the Department of Health and Family Welfare, Punjab State. If required, immediate treatment services to the affected peoples should be provided and action taken report also be submitted to the Monitoring Committee.
- (xv) All the Local Bodies, Housing & Urban Development Department or any other organization responsible for preparation of action plans shall prepare and submit action plans with time lines after analysing the issues such as existing scenario, gap analysis (identification of the problem), goals to be achieved, future plans with time lines for achieving the goals and organisation responsible for execution of each action plan. The action plan shall be submitted before the next meeting likely to be held on 15th October 2018 in CPCB, Delhi. All the action plans to be submitted shall be approved by Chief Secretary/ Secretary of the concerned department, Govt of Punjab.
- (xvi) All the Local Bodies and Urban Development Departments, Municipal Corporations or any other organization responsible for collection, handling, treatment and disposal of municipal solid waste in the catchment area of river Sutlej and river Beas shall prepare and submit action plans with time lines for proper management of municipal solid waste, in the next meeting of the Monitoring Committee. PPCB to ensure participation of concerned officials in the next meeting of the Monitoring Committee.
- (xvii) Project Head of M/s. Ramky Enviro Engineers Ltd., the operator of TSDF, Nimbua was suggested to submit a report by 06.10.2018 to the Nodal Officer, CPCB covering the list of industries located in the catchment area of river Sutlej and River Beas, industry-wise actual hazardous waste generation, actual quantity of hazardous waste received by the TSDF, Nimbua and the gaps observed on quarterly basis, for the period from January 2017 to till date.
- (xviii) The CBWTF operator located at Ludhiana was suggested to provide (i) List of HCFs (located in the catchment of River Sutlej and River Beas) yet to take membership of the Common Bio-medical Waste Treatment Storage & Disposal Facilities (CBWTF) for taking further action by PPCB; (ii) PPCB shall ensure authorization under the Bio-medical Waste Management Rules, 2016 as amended (BMW Rules, 2016) to all the HCFs irrespective of the quantum of bio-medical waste generation and action to be taken against the HCFs which have not yet obtained authorization from PPCB; (iii) CBWTF operator shall formulate a suitable scheme to the small/non-bedded HCFs so that such HCFs will take membership on voluntary basis as it helps in compliance to the Bio-medical Waste Management Rules, 2016 as amended. Above information shall be collected from other operators of CBWTFs if required, by PPCB and same should be submitted to the Nodal Officer, CPCB, by 06.10.2018.
- (xix) The Committee observed that the treated sewage from sewage treatment plants (STPs) is generally discharged into nearby drain and therefore defeating the purpose of treatment of sewage through STPs. Therefore, all the concerned departments involved in O & M of existing STPs in the catchment of river Sutlej and River Beas should include action plans for utilisation of treated sewage from STPs at least for irrigation or any other suitable purpose, however, such treated waste water should comply with the discharge norms for the intended purpose as prescribed under the E (P) Act, 1986.
- (xx) The Committee suggested all the concerned departments involved in O & M of existing STPs located in the catchment of river Sutlej and Beas should install Continuous Online Effluent Monitoring System (COEMS) with a provision of CCTV Cameras at the outlet of STPs and continuous data should also transferred to the CPCB and PPCB servers.

9) **Visit to CETP at Leather Complex, Jalandhar and STP adjacent to Leather Complex, Jalandhar**

During the meeting, Shri Kishor Bansal, Superintending Engineer, Municipal Corporation Jalandhar apprised the members of the Monitoring Committee that the STP of Peer Daad is working efficiently and the sewage is being treated satisfactorily. Sludge system was working properly. No untreated water is being thrown into the Kala Sanghian Drain. Therefore, Committee members comprising Shri Balbir Sing Seechewal, Member, Shri J.C.Babu, Sc 'D' and Nodal Officer, CPCB and Shri Niraj Mathur, SEE and representative of RSPCB and the officials of PPCB, Jalandhar decided to inspect the STP located at Peer Daad and also a Common Effluent Treatment Plant (CETP) pertaining to the leather complex.

During the visit to CETP at Leather Complex, Jalandhar (owned by Punjab Effluent Treatment Society), the Committee members observed that (i) CETP in leather complex was under maintenance; (ii) Chromium bearing sludge removed from the sludge drying beds is kept in open yard adjacent to the sludge drying beds; (iii) housekeeping in CETP was very poor (iv) workers are found to be replacing the new aerators in place of old aerators without wearing any PPE; (v) There is no provision of surface run off collection drain provision. (vi) OCEMS at the ETP outlet not yet provided for continuous monitoring of the treated effluent before its discharge. Considering the likely impacts due to improper disposal of such sludge, Shri J.C.Babu, Sc'D', WQM-I and Nodal Officer, CPCB directed the CETP authorities to lift and dispose of the chromium bearing sludge immediately through TSDF, Nimbua following the manifest as per Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016 as amended. The Committee also directed CETP authorities to inform once the CETP become operational for inspection.

Later, afore-said Committee also visited 50 MLD capacity STP located adjacent to the leather complex at Jalandhar to verify the claims made by Shri Kishore Bansal, Superintending Engineer and Shri Gagan Luthera, Assistant Engineer, Municipal Corporation, Jalandhar. During the visit, the Committee observed that (i) There is no sign of proper operation of the STP; (ii) automatic skimming provision is not in working condition; (iii) STP is having by-pass arrangement without any electromagnetic flow measuring unit to record any discharge through by-pass arrangement (iv) the sludge generated from the press filter arrangement were surprised to find that the cake of sludge had long dried up and efforts had been made to drench it by throwing water on it (v) Sludge lying in the STP premises is not at par with the efficiency of the STP w.r.to removal of solids present in the raw sewage; (vi) OCEMS installed in the STP outlet is not in working condition; (vii) Authorities are not having thorough knowledge on operation aspects of STP due to lack of adequate training and skilled man power for proper operation of the STP; (viii) Requisite records are not maintained properly. Therefore, Committee directed Shri Kishore Bansal, Superintendent Engineer, Municipal Corporation, Jalandhar to take immediate remedial measures and to apprise the Committee in the next meeting.

The next meeting of the Monitoring Committee will be held in CPCB at Delhi on 15th October 2018 at 10.30 AM.

The meeting ended with vote of thanks to the Chair.

Annexure-I

List of Participants

Third Meeting of the Monitoring Committee for Ensuring Compliance to Hon'ble NGT Order dated 24.07.2018 in the Matter of O.A No 101/2014 filed by Sobha Singh & Ors. Vs State of Punjab & Ors

Date and Time : 26/08/2018 12:30 Noon

Venue : PPCB, Jalandhar, Punjab-144004

Sl. No	Name of the Official	Organization/ Division	Contact No (Tel. No./ Mobile No)	E-Mail
1.	Shri Balbir Singh Seechewal	Chaired the Meeting and Member of the Monitoring Committee and Member of PPCB	9417319463	santseechewalji@gmail.com
2.	Shri J.Chandra Babu	Scientist 'D', WQM-I and Nodal Officer, CPCB	9868278903	jcb.cpcb@nic.in
3.	Shri A.S Dhaliwal	CE (O&M), Member of the Committee representing Local Government, Punjab	9988824055	amandeep.dhaliwal.mcj@gmail.com
4.	Shri Niraj Mathur	SEE, RSPCB and Member Representative of RSPCB	9460049410	mines.rpcb@gmail.com
5.	Shri Rajeev Sharma	SEE, PPCB, ZO2, Ludhiana and Nodal Officer, PPCB	9779054005	seezo2ldhppcb@yahoo.com
6.	Shri G.S Majithia	CEE, PPCB Jalandhar	9878950509	ceejalandhar@yahoo.com
7.	Shri Harbir Singh	SEE, PPCB,ZO Jalandhar	9878950155	seezojalppcb@yahoo.com
8.	Shri Mukhtiar Singh	SE, PWSSB, Jalandhar	9876534111	sej.pwssb@punjab.gov.in
9.	Shri Kishor Bansal	SE, Municipal Corporation Jalandhar	9780042183	seom.mci@gmail.com
10.	Shri Ravinder Kumar	Senior Environmental Engineer (O&M), Municipal Corporation Ludhiana	9988820840	assistantcommissionerjal@gmail.com
11.	Shri Arun Kakkar	Env. Engineer, PPCB	9878950543	eerojalandhar@gmail.com
12.	Shri Ashish Rai	EE,PWSSB, Hoshiarpur	9815985242	eeh.pwssb@punjab.gov.in
13.	Ms. Lata Chauhan	Executive Engineer, PWSSB	9780448438	er.lata19@gmail.com
14.	Er. Ravinder Bhatti,	EE and RO, PPCB, Batala	9878942035	ppcbhatala@gmail.com
15.	Shri P S Mauli	Advocate	9816147553	psmaui@gmail.com
16.	Shri Jasminder Singh	AME, Municipal Corporation, Jalandhar	9646003360	63brarjasminder@gmail.com
17.	Shri Parveen Kumar	Water Supply and Sanitation	9876556635	cewa@gmail.com
18.	Shri, Neeraj Goyal	J.E, PWSSB Moga	9463835258	eemg.pwssb@punjab.gov.in
19.	Shri Gagandeep Sharma	Local Govt	7696799039	deepgagan5561@gmail.com
20.	Shri Gagandeep Singh	Municipal Corporation Jalandhar	9814224554	gaganluthra07@gmail.com
21.	Shri Gurmeet Singh	Municipal Corporation Ludhiana	9888379800	
22.	Shri Jaspal Singh	GLADA	8427950850	jaspalsingh12233@gmail.com

23.	Er. Guneet Sethi	AEE, Regional Office , PPCB, Jalandhar	9878942034	-
24.	Shri Karnail Singh	GLADA	9815921143	ksthind3626@gmail.com
25.	Shri Pawan Garg	CEE PPCB	9872994400	-
26.	Shri Sukhjeet Singh	Seechewal	9417044263	sukhijet@gmail.com
27.	Shri Davinder Singh	Sr. Project Manager, G.S.J Enviro Ltd	8146331492	davindersinghbhokhar@gmail.com
28.	Shri Sandeep Gupta	ASO PPCB	9878950576	sandeep.ppcb@yahoo.com
29.	Shri Harpreet Singh	GST Enviro Ltd	9781700140	happysingh00179@gmail.com
30.	Shri Michel	Water Supply and Sanitation Department, Division Sri Anandpur Sahib	9501033337	xen_ropar@yahoo.com
31.	Shri Inderjit Singh, STP Jalandhar	Town and Country Planning, Punjab	92166610031	stpjalandhar@gmail.com
32.	Shri Jagmohan Singh	Water Supply and Sanitation Department, Division Mukatsar Sahib	9988351183	xengwmks@gmail.com
33.	Shri J.S Chahl	Water Supply and Sanitation Department, Circle Mukatsar Sahib	9815728982	jagdevs180@gmail.com

Details of Heads of the Department & Nodal Officers responsible for ensuring compliance to the Hon'ble NGT Orders dated 24.07.2018 in the matter of O.A No 101/2014 titled Sobha Singh & Ors. Vs State of Punjab & Ors

Sl. No.	Name of Department/ Organization of the Punjab State Government	Head of the Department	Nodal Officer
1.	Punjab State Government	Chief Secretary, Punjab State Government	-
2.	Department of Water Supply & Sanitation	Smt. Jaspreet Talwar, Secretary, DWSS, Punjab	Er. Anil Kumar Bansal, Chief Engineer, South, DWSS, Punjab
3.	Municipal Corporation, Ludhiana	Smt. Kamalpreet Brar, IAS, Commissioner	Er. Ravinder Garg, Superintending Engineer
4.	Punjab Water Supply & Sewerage Board	Sh. Ajoy Sharma, IAS, CEO	Er. Lata Chauhan, Executive Engineer
5.	Municipal Corporation, Jalandhar	Sh. Diparva Lakra, Commissioner	Er. Kishor Chand Bansal, Superintending Engineer
6.	Department of Local Government	Sh. Amardeep Singh, ACS	Er. A.S. Dhaliwal, Chief Engineer
7.	Department of Housing & Urban Development /GLADA	Sh. Sunil Kansal, Chief Engineer	Sh. Balwinder Singh, Superintending Engineer
8.	Punjab Pollution Control Board	Prof. S.S. Marwaha, Chairman,	Member Secretary, PPCB and CEEs/Zonal Offices/Regional Offices of Ludhiana, Jalandhar, Batala, Hoshiarpur, Mohali, Faridkot

**Central Pollution Control Board**

(Ministry of Environment, Forest & Climate Change, Govt. of India)

Parivesh Bhawan, East Arjun Nagar,

Delhi - 110032

Minutes of Fourth Meeting of Monitoring Committee held on 17.10.2018 in CPCB for Ensuring Compliance to Hon'ble NGT Order dated 24.07.2018 in the matter of O.A No 101/2014 filed by Sobha Singh & Ors. Vs State of Punjab & Ors.

Fourth meeting of the Monitoring Committee constituted by Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi orders dated 24.07.2018 was held on 17.10.2018 in CPCB, Delhi. The list of officials who attended the meeting is annexed (**Annexure I**).

After brief introduction of the officials, the suggestion of Shri A.S.Dhaliwal, Chief Engineer (O&M), Punjab Municipal Infrastructure Development Company (PMIDC) and representative of Local Government Department (Govt. of Punjab) for inclusion of name of the officials responsible for preparation of action plans in the respective departments (**given Annexure-II**) were considered and with the above changes, the minutes of third meeting of Monitoring Committee held on 26.09.2018 were confirmed.

At the Outset, Shri. J.Chandra Babu, Scientist 'D', WQM-I and Nodal Officer, CPCB welcomed Shri. Balbir Singh Seechewal, Member of Monitoring Committee and Member, Punjab Pollution Control Board, Shri Niraj Mathur, Sr. Environmental Engineer and representative of Rajasthan Pollution Control Board, Shri A.S.Dhaliwal, Member, Local Government, Punjab State Government, as well as Member Secretary, Punjab Pollution Control Board and the other officials of Punjab State Government. Thereafter, he informed that Member Secretary, Central Board is on Hon'ble NGT inspection and Shri A.Sudhakar, Division Head, WQM-I is on tour who may join us little late and thereafter, he requested Shri. Balbir Singh Seechewal, Member, Punjab Pollution Control Board to Chair the 4th meeting of the Monitoring Committee.

Shri. Balbir Singh Seechewal, in his opening remarks he reiterated that the sole purpose of constitution of this monitoring committee is to ensure compliance to the Hon'ble NGT order dated 24.07.2018 and also to see that the untreated sewage and industrial effluents are curbed and only treated wastewater be allowed passing through drains and the river Sutlej and river Beas. He also rebuked the local Government, Municipal Authorities and other

concerned authorities not to play with the health of the public and still untreated waste is being discharged into rivers/drains heedlessly and being negligent on their part and dedicated efforts are required to curb such disposal of wastewater into river bodies. He also requested all the concerned authorities like Municipal Corporations, Municipal Committees and other concerned authorities should supply minimum required quantity and ensure matching treatment capacity of the sewage treatment plants is provided. He further requested the entire department heads to take necessary action for ensuring compliance to Hon'ble NGT order dated 24.07.18 in a time bound manner and work in coordination with the Monitoring Committee to resolve all the issues.

Thereafter, Shri J Chandra Babu, Scientist D and Nodal Officer, CPCB, made a power point presentation and apprised the committee members as well as applicants of the original applications filed in the matter before the Hon'ble NGT, on the initiatives taken so far by the Committee. *He also requested all the departments that the action plans with time lines should be prepared and submitted to the Monitoring Committee keeping all in view and visualizing the Pollution Free Rivers Sutlej and Beas and streams should not carry sewage or industrial effluent and comply with the norms by the industries located in the catchment area of the rivers.*

Hon'ble NGT order dated 05.10.2018 in the matter of O.A. No. 206/2016, Capt Hans Raj Singha Vs Union of India &Ors.

Captain Hans Raj Singha, who is an applicant of OA No. 206/2016 titled Capt Hans Raj Singha Vs Union of India & Ors, with his legal counsel Shri Akash Vashishtha approached the Monitoring Committee in its 4th meeting and apprised the members that the matter pertains to massive illegal and unscientific mining on the private lands of Capt Hans Raj Singha as well as adjoining forest lands in Village Sataun under Nirmaund Sub-division of Kullu district in HP, without obtaining Environment Clearance from the SEIAA, permission from the Mining Department, Consents to Establish and Operate under the Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974 and sanctions from the Central Government under Forest Conservation Act 1980. Shri Vashishtha also informed that though the State Government and its agencies have been claiming that they have caused the mining to stop, illegal mining continues to take place unabated. The petitioner, Capt Hans Raj also informed that there is a threat to his life from the mining agencies operating in the area and also been physically assaulted. Legal Counsel of the applicant also requested the Committee to ask the state government to evict the illegal miners from the private lands of Capt. Hans Raj Singh after thorough demarcation, ascertain the quantification of damage caused to environment in the private and forest lands in the area, determine the number of trees felled in the area and pay compensation/damages to the petitioner for the loss he has suffered in last four years, along with other reliefs sought by him in the Original Application

before the NGT. *In this connection, the Committee assured the applicant and his legal counsel that a meeting with the concerned H.P. State Government officials will be held at an early date.*

Thereafter, formal agenda of the meeting was taken up by the monitoring committee and respective departments presented their progress which is described in subsequent paras as below

Presentation by Punjab Pollution Control Board (PPCB):-

Shri Rajeev Sharma, SEE and Nodal Officer, Punjab Pollution Control Board (PPCB), Ludhiana submitted that in the stretch of River Sutlej, from Nangal to Ropar, there are four major industries (namely M/s. NFL, Nangal, M/s Punjab Alkali and Chemicals Ltd., Naya Nangal, M/s Guru Gobind Singh Super Thermal Plant (GGSSTP), Ropar and M/s Gujrat Ambuja Ltd., at Village Daburji, Ropar) and none of the these four industries are discharging wastewater into river Sutlej. Budha Nallah (wastewater contribution from Ludhiana city) and East Bein (waste water contribution from Phagwara, Jalandhar area) are the two major drains contributing to pollution load in river Sutlej.

He also informed the Committee that in Ludhiana, there are 1612 water polluting industries comprises mainly dyeing (218), electroplating (1253), wire drawing (512) and miscellaneous 141 industries. Total waste water generation is about 88 MLD. The electroplating industries are either ZLD units or disposing wastewater through a CETP (of capacity 0.5 MLD). Pickling industries are discharging wastewater through acid recovery reprocessing plants and dyeing & miscellaneous industries are having captive ETPs and finally discharging treated wastewater into municipal sewers.

In Jalandhar, there are 319 industries comprising Tanneries (61 cluster), electroplating (254), dyeing (04 Clusters) and generating wastewater about 4.04 MLD (i.e., 3 MLD from Tannery, 1 MLD from Dyeing and 0.04 MLD from Electroplating Industry). All tanneries are discharging their effluent through a CETP at Jalandhar into Kala Singhian Drain, Dyeing Units discharging effluent through CETP and finally discharge into PSIEC sewer and Electroplating units are discharging through CETP at Ludhiana.

The effluent generated from three large scale industries located at Phagwara are treated by captive ETP and ultimately joins river Sutlej through East Ben via Phagwara drain. Also, 26 tiny bag tanning units located at Phillaur generate about 8 KLD of waste water, is treated through CETP, Phillaur. The treated water from CETP, Phillaur is also discharged into public sewer which ultimately leads to river Sutlej. There are two food processing units with ETPs and discharging treated effluent into public sewer leading to river Sutlej.

Draft Action plan proposed by PPCB for both Ludhiana and Jalandhar are as follows:-

Action plans proposed by the PPCB are detailed below:-

- Short term programme, involving lesser finances and lesser expertise with excellent reduction of effluent and pay back**

 - ✓ Better housekeeping, maintenance and best engineering practices.
 - ✓ Cooling water recovery and reuse.
 - ✓ Steam condensate recovery and reuse

- Medium term programme, involving moderate finances, trials and special expertise with good reduction of effluent and pay back**

 - ✓ Heat recovery from effluents
 - ✓ Reuse of treated effluent.
 - ✓ Process changes to reduce the number of steps in dyeing process.
 - ✓ Optimum use of chemicals/use of green chemicals.

- Long term programme, involving bigger finances, examination of Tech, trials & high expertise with excellent wastewater reduction of effluent and pay back**

 - ✓ Up-gradation of machinery:
 - Replacement of high liquor ratio dyeing/washing machines with lower liquor ratio machines.
 - Use of less water intensive allied machinery complementing 'after dyeing processes'.
 - Replacement of conventional washing system with lesser water intensive continuous washing system, automatic screen washer/pot washers/container washers etc.
 - Use of fully automization of machinery for dyeing/printing etc.
 - Use of color kitchens and dispensing system for colour dozing.
 - ✓ Upgradation of captive ETPs by large scale dyeing units:
 - Large scale dyeing units are required to upgrade their captive ETPs to meet with the standards.
 - ✓ Shifting of small and medium scale scattered dyeing units:-
 - Scattered small and medium scale dyeing units located in non-designated areas and having no feasibility of connectivity with proposed CETPs, are required to be shifted to industrial clusters having connectivity with CETPs.

- **Upgradation of existing CETPs, installation of CETPs for dyeing industries located in clusters and shifting of small scale scattered dyeing units- Installation of CETPs:-**
 - ✓ **Bahadur Ke Road Cluster 15 MLD:** - The construction work of CETP is likely to be completed by 31-03-2019.
 - ✓ **Focal Point Cluster 40 MLD:-** Earlier, the construction work of CETP was started. Work held up for the last about 2 years due to paucity of funds with SPV. Central and State Govt. shares have been sanctioned. The SPV and L & T (Construction agency) negotiating to restart the construction work of this CETP.
 - ✓ **Tajpur and Rahon Road Cluster 50 MLD:-** Earlier, the construction work of CETP started. Work held up for the last about 2 years due to paucity of funds with SPV. This project has not been approved by MoEF & CC for Central assistance as the scheme stands discontinued by the MoEF. PPCB is asking the SPV to arrange the entire funds at their own to restart the construction work of this CETP.

IDENTIFICATION OF MAJOR ISSUES OF LUDHIANA

- **Ensuring proper treatment of trade effluent by the existing industries:-**
 - ✓ PPCB to continue to monitor captive ETPs, CETP and member units of CETP to ensure that no untreated or partially treated trade effluent finds its way to river Sutlej directly or indirectly.
- **Water Conservation and waste water minimization:-**
 - ✓ Dyeing industries are water intensive units and are required to be guided to adopt water conservation and waste water minimization techniques. Board has already taken the initiatives and about 20 MLD of fresh water is being saved due to adoption of afore-said measures.

TIME TARGETED ACTION PLAN FOR LUDHIANA

- **Ensuring proper treatment of trade effluent by the existing industries**
 - ✓ PPCB shall continue to make it a regular feature to monitor captive ETPs, CETP and member units of CETP as per prescribed protocol.

- **Water Conservation and waste water minimization**
- ✓ Short term plan, involving lesser finances and lesser expertise with excellent reduction of effluent and pay back -by 31.12.2019.
- ✓ Medium term programme, involving moderate finances, trials and special expertise with good reduction of effluent and pay back-by 31.12.2020.
- ✓ Long term programme, involving bigger finances, examination of Tech, trials & high expertise with excellent wastewater reduction of effluent and pay back - By 31.12.2021.
- **UPGRADATION OF EXISTING ETPS, INSTALLATION OF CETPS FOR DYEING INDUSTRIES LOCATED IN CLUSTERS AND SHIFTING OF SMALL SCALE SCATTERED DYEING UNITS**

INSTALLATION OF CETPS

- **Bahadur ke Road Cluster 15 MLD :** The construction work of this CETP is going on and is likely to be completed by 31-03-2019.
- **Focal Point Cluster 40 MLD :-**
Earlier, the construction work of CETP was started. Work held up for the last about 2 years due to paucity of funds with SPV. Central and State Govt. shares have been sanctioned. The SPV and L & T (Construction agency) negotiating to restart the construction work of this CETP. The CETP is likely to be commissioned *by 31-03-2020* if the construction work is restarted as envisaged.
- **Tajpur and Rahon Road Cluster 50 MLD :-**
Earlier, the construction work of CETP was started. Work held up for the last about 2 years due to paucity of funds with SPV. PPCB is asking the SPV to arrange the entire funds at their own to restart the construction work. In case, the SPV arranges entire funds for commissioning of CETP at its own, then the construction work may restart in the near future and is likely to be completed *within a period of one year* from the date of restart of work.
- **Upgradation of captive ETps by large scale dyeing units**
All the individual large scale dyeing units are being persuaded to upgrade their existing captive ETps to comply with the effluent discharge norms.

❑ **Shifting of small and medium scale scattered dyeing units**

All the individual small and medium scale dyeing units located in non-designated industrial areas or not having feasibility to connect with the proposed CETPs are being persuaded to shift to industrial clusters having connectivity with the proposed CETPs by the time these CETPs are installed.

TIME TARGET ACTION PLAN OF JALANDHAR

❑ **For electroplating units a CETP@150KLD based upon ZLD Technology will be installed at Focal Point, Jalandhar, Proposed time plans**

✓ SPV under the name of M/s JETS formed and land allotted by PSIEC on lease basis to SPV in Focal Point, Jalandhar. The Environmental Clearance (EC) dated 24.04.2017 granted for installation of CETP. Expression of Interest (EOI) called by SPV for installing CETP on BOT basis. Finalization of the company to install CETP is under process. The work allotment will be finalized by 31.12.2018. The CETP shall be installed within 01 year i.e. by 31.12.2019.

❑ **For effluent being generated from Focal Point, Jalandhar, there is a proposal to install STP by PSIEC.**

✓ It has been decided that PSIEC shall install STP for waste water of Focal Point, Jalandhar. PSIEC shall submit detail proposal of STP by 31.12.2018. PSIEC shall install STP for Focal Point, Jalandhar within 01 year i.e. by 31.12.2019 and PPCB shall pursue the issue.

PROPOSAL FOR 3RD MODULE OF CETP OF CAPACITY 7.5 MLD FOR TANNERIES UNDER SMART CITY PROJECT OF JALANDHAR TOWN

✓ All tannery units in Leather Complex, Jalandhar adopt the technology and methodology to reduce waste water generation and reduce TDS by 30.06.2019.

✓ CETP of capacity 7.5 MLD at Leather Complex, Jalandhar proposed.

✓ PETS and Municipal Corporation, Jalandhar to finalize the DPR under Smart City Project of Jalandhar Town by 31.03.2019.

✓ The PPCB to pursue the matter for completion of CETP by 31.03.2020.

SOURCES OF INDUSTRIAL WATER POLLUTION

3 industries located on the banks / catchment area of river Beas

- M/s Pioneer Industries (Distilleries Division) and M/s Pioneer Industries (Gluten Division), Pathankot.**

 - ✓ Distilleries Division – ZLD
 - ✓ Gluten Division – Treated Trade effluent disposal onto land for green development.
 - ✓ PSIEC Industrial Growth Centre sewer outfall is into Nalwa Drain leading to River Chakki ultimately merging into River Beas.
- M/s Indian Sucrose, Mukerian:**

 - ✓ Sugar mill at Mukerian – Treated trade effluent onto land for plantation/irrigation and no discharge.
- M/s Chadha Sugar Ltd:**

 - ✓ Due to recent incidents of spillage of molasses in May 2018 the matter is now being monitored by National Green Tribunal (NGT) Monitoring Team constituted in the matter of OA No. 344/345 of 2018. PPCB has constituted a committee for preparation of action plan for restoration of river Beas and presently, PPCB is examining the recommendations of the committee and it will finalise within a month.

Presentation by Urban Development & Housing and GLADA:-

Shri Himanshu Arora, in his presentation informed that GLADA maintaining Sewerage Treatment Plants in five Towns namely Mullanpur, Maloud, Payal & Doraha (Distt- Ludhiana) and Noormahal (Distt – Jalandhar) having total installed capacity is about 13.35 MLD. The treated water of STP's is used only for the purpose of irrigation. Total installed capacity of all the STPs are running below their capacity, and there is no gap between generation and existing STPs capacity.

GMADA maintaining 5 MLD capacity main pumping station and Sewage Treatment Plant (STP) at Kurali Town based on SBR Technology. STP was designed on the basis of population i.e. 23039 (Census of 2001) and can take discharge of expected population of year 2040).

Proposed action plan by Urban Development & Housing are as follows:-

S.No	Action Plan	Time Target
1	Balance sewage work at Noormahal	04 months
2	Installed Flow meter of STP's	04 months
3	24x 7 Water Supply in Urban Estates of GLADA	06 months
4	Meter Scheme in Urban Estates	03 months

Presentation by Municipal Corporation (MC), Ludhiana

Shri Ravinder Garg, SE, Municipal Corporation, Ludhiana in his presentation informed that key problems associated with the operation of STPs in the Ludhiana municipal corporation and the water pollution are mainly due to high domestic sewage generation due to high per capita water supply (300 lpcd against prescribed 135 lpcd). Secondly, Jamalpur STP has high inflow of industrial effluent from dyeing and textile units located at Tajpur Road, Focal point and Industrial Area as there is no CETP at present. Therefore, excess untreated wastewater is discharged into Budha Nallah drain and causing pollution of river Sutlej. Also, treated sewage from Jamalpur and Bulloke STPs are not meeting standards due to poor operation and maintenance. At Balloke (2 STPs), Bhattian (2 STPs), Jamalpur, total expected sewage generation in 2033 is about 673 MLD, total installed capacity of sewage is about 466 MLD and there is a gap of about 207 MLD. He also stated that there are two Dairy complex in Ludhiana City at Jamalpur and Haibowal and effluent discharge of about 5MLD and 10MLD respectively.

Action plans proposed by the Municipal Corporation, Ludhiana are as follows:-

□ Short Term Action Plans:-

- A special STP cell has been formed by MCL to keep proper check on the running/operations of STPs- Immediate.
- Reduction in water supply time, to reduce water generation in the city- One month.
- Installation of timers on tube wells to automatically control water supply timing- 2 months
- Banned further installation of new tube wells in the limits of Municipal Corporation, Ludhiana- Immediate
- Installation of bins along Buddha Nallah to check direct dumping of MSW directly into the Nallah - 2 months.

□ **Long Term Action Plan-for Treatment of Domestic Sewage and Partial Industrial Effluent**

- To cope up the GAP discharge, 50 MLD New STP Proposed at Jamalpur. Time required -18 months
- Rehabilitation of old UASB Plants of total capacity 311 MLD at Balloke , Bhattian and Jamalpur. Time required for rehabilitation- 12 months
- Construction of new additional STPs at Bhattian, Balloke of Capacity of 120 MLD and 60 MLD respectively- Time line: 26 months.
- Interceptor sewer along Budha Nallah-24 months
- Installation of electromagnetic flow meters at all the existing STPs- 4 months
- Feasibility study and Preparation of DPR for Utilization of Treated water for irrigation purpose- Time line: 6 months.
- **Treatment of Dairy Effluent:-**Dairy complex at Haibowal- ETP of 10 MLD Proposed and Dairy complex at Jamalpur- ETP of 5 MLD Proposed- Time limit : 18 months.
- **Treatment of Industrial Effluent-** Three CETPs of Total Capacity 105 MLD is under construction at two location Jamalpur(Two Module) and Bahadarke. Nodal Agency is PPCB. Presently, construction work of CETP at Jamalpur is held up whereas CETP at Bahadarke is under construction.
- **Treatment of Slaughter House:-** Custom built Effluent Treatment Plant for handling of 800 KLD of effluent- Target date-Within one year.
- **Reduction of water consumption:-** Water Meter Policy has been framed and will be implemented soon. Project for implementation of 24X7 surface water supply for Ludhiana City has already been forwarded to World Bank by Department of Economic Affairs, Ministry of Finance, GOI.

Presentation by Municipal Corporation, Jalandhar

Shri K.Bansal, SE, Municipal Corporation, Jalandhar in his presentation informed that 6 STPs (i.e., 3 nos in Pholriwal, Basti Pir Dad, Jaitewali, Bambianwali) in Operation under MC, Jalandhar is having total installed capacity of 235 MLD against total sewage generation of 300 MLD. There is a treatment gap of about 79 MLD at Pholriwal and Basti Pir Dad and is discharged presently into Garha Drain and Kala Singhian Drain respectively.

Short term plans for sewage and solid waste management:-

Sr. No.	Action Plan for rejuvenation of river Satluj	Executive Agency	Time Target
1.	Reduction in water supply time, to reduce water generation in the city.	M.C. Jalandhar	Immediate
2.	Installation of timers on tubewells to automatically control water supply timing as Action plan.	M.C. Jalandhar	Immediate
3.	Banned further installation of new shallow tubewells in the limits of Municipal Corporation, Jalandhar.	M.C. Jalandhar	Immediate
4.	Railway Connection under Ferozpur Railway Line	PWSSB	By respective Department
5.	Door to Door Collection	M.C. Jalandhar	31.12.2018
6.	Installation of Bins	M.C. Jalandhar	31.03.2019
7.	Separate Transportation	M.C. Jalandhar	31.03.2019
8.	Public Sweeping by Machines	M.C. Jalandhar	31.03.2019
9.	Ban on Plastic	M.C. Jalandhar	30.11.2018

Long Term Plans for sewage management:-

Sr. No.	Name of Project	Executive Agency	Time Target
1.	Replacement of 100 MLD UASB based Tech. STP to 100 MLD SBR based Tech. STP at Pholriwal along with closing of Disposals	MCJ	31-12-2020
2.	25 MLD STP at BastiPir dad/ Industrial Area	MCJ	31-12-2021
3.	Water Policy	State Govt.	By State Govt.
4.	Bio Gas plant	PEDA/MCJ	31-12-2019

Long Term Plans for solid waste management:-

Sr. No.	Action Plan	Executive Agency	Time Target
1.	Source Segregation of Solid Waste	M.C Jalandhar	31.07.2019
2	Decentralized Processing plant at Transfer Stations	M.C. Jalandhar	31.09.2019
3	Waste Processing	M.C. Jalandhar	30.09.2019
4.	Scientific Landfill	M.C. Jalandhar	30.09.2019
5.	C&D Waste Plant	M.C. Jalandhar	30.09.2019

Presentation by Punjab Water Supply and Sewerage Board:-

Representative of PWSSB submitted that there are 67 townships which are generating sewage about 302 MLD and presently treating about about 187.4 MLD with a gap of 114.6 MLD which is disposed off through drains into River Sutlej and Beas. Further there are some other drains which joins East Bein drain, which include (i) Phagwara drain; (ii) Tehang drain; and (iii) Nasrala drain. The River Beas receives mostly a large amount of effluents from cities sewerage Via Kali Bein which flows through the districts of Hoshiarpur, Kapurthala and Jalandhar and some other drains.

At Nangal, there are two STPs having total capacity of 13 MLD and all the treated effluent is discharged into river Sutlej. Waste water through East Bein drain is also discharged into River Sutlej. There are five towns and 4 towns having STPs at Nawanshahar, Nakodar, Banga and Phagwara whereas in Garhshankar town, there is no sewerage system, it discharges through East Bein into River Sutlej. Tehang drain emanates from Phillaur town where two STPs of capacity 5.6 MLD exist. Nasrala drain which emanates from Hoshiarpur is having STP of capacity 30 MLD.

Similarly some local drains in Ropar district also discharging untreated sewage about 36 MLD is directly or indirectly into River Sutlej. Also, drains in South-west Punjab, 15 no. of drains in Moga and Ferozpur District in South-West Punjab which carries about 117 MLD of treated and untreated sewage into river Sutlej.

River Beas, receives large amount of effluent from city sewerage via Kali Bein which flows through the district of Hoshiarpur, Kapurthala & Jalandhar. Twenty towns located in the catchment of river Beas and Sutlej are not having sewerage system and 30 MLD of wastewater of twenty towns are either collected in ponds or discharged into the drains and these drains normally dry and carries discharge during monsoon period. The representative of PWS & SB informed the committee that the remedial measures are being taken and funds are being allocated for the construction of new or for up gradation of existing STPs to control the discharge of waste water into River Sutlej and Beas. In response to the observation of Sh. Balbir Singh Seechewal regarding less discharge at STP in Nakodar Town, the representative of PWSSB clarified that in Nakodar, the STP was under stabilisation and testing at the time of visit of the committee member. Also, the work for laying the sewerage is in progress due to which the quantity of wastewater arriving at the STP is less than the capacity of STP.

Punjab Water Supply and Sewerage Board (PWS & SB) proposed short and long term action plans and the implementing agencies responsible for the execution of the action plans and the time limits are given as below-

Sr. No.	Action plan for rejuvenation of River Sutlej and Beas	Organisation/ Agency Responsible for Execution of the Action plan	Time Target
(i)	Completion of Sewage Treatment plants, which are under construction. at Ferozepur, Guru Har Sahai, Jaito, Kotkapura, Morinda, Shahkot	PWSSB	Within one year
(ii)	Construction of sewage treatment plants whose funds are tied up under various schemes but the work has yet to be started at 17 places	PWSSB/ Local Government	Two years (subject to timely availability of funds)
(iii)	Preparation of Detailed Project Reports where funds are not tied up from any source	PWSSB/ Local Government	Six months
(iv)	Laying of pipelines for use of treated water for irrigation purpose where work is under progress at 03 places	Department of Soil & Water Conservation	Six months
(v)	Laying of pipelines for use of treated water for irrigation purpose where funds are available but work has not started at 21 places	Department of Soil & Water Conservation	One year

Deptt. of Rural Development & Panchayat:-

The representative of **Rural Development & Panchayat** requested the Committee that the action plans for management of sewage in rural areas will be prepared and submitted within fifteen days' time.

Deptt. of Punjab Water Supply & Sanitation (PWS & S)

Sh. Anil Bansal, Chief Engineer, Deptt. of Punjab Water Supply & Sanitation (PWS & S) submitted that PWS & S department is maintaining 3 no. of STPs which are located at Shri. Anadpur Sahib, Shri Mukatsar Sahib, and Baga Purana. As per survey report of the Committee, sludge management system at Shri Anandpur Sahib STP was found rotten and same was not in working condition. The representative of PWS & S submitted that repair work will be executed by 15-11-2018 and work of the remaining sewer lines/upgradation of the STP as per the latest norms will be taken up depending on the availability of funds. As regards STPs at Shri Mukatsar Sahib are lying defunct due to non-availability of funds and funds are demanded from the Govt. for ensuring O & M of existing STPs whereas STP at Baga Purana, work is still under execution.

Health and Family Welfare Department, Punjab State Government

Dr. G.B.Singh , Asst. Director, Health & Family Welfare, Punjab apprised the committee that based on OPD reports collected from Government Public Health Centres located in the adjoining catchment areas of River Beas and River Sutlej for the period January 2018 to August 2018, in District Ludhiana, people are suffering mainly from skin diseases, respiratory diseases, hypertension, pulmonary diseases and diarrhoeal diseases. In District Ropal and Fazika areas, people are suffering from skin diseases and diarrhoeal diseases . He is of the opinion that the diarrhoeal diseases can be attributed to water contamination. He also stated that requisite treatment is provided to the affected public as all the afore-said areas are well connected with Health Care Facilities. Action plan proposed by the Health and Family Welfare Department are:-

- ✓ Health survey of listed catchment areas-By District Health Authorities- within two months

Compliance Status of STPs and CETPs in the Catchment of River Sutlej and River Beas:-

Due to shortage of time, the Committee felt that the information may be obtained from the concerned Divisions in CPCB on the status of compliance to the STPs **and CETPs** located in the catchment of River Sutlej and River Beas for the purpose of inclusion in the interim report of the Committee.

Incident of molasses spillage from M/s Chadha Sugar & Industries (P) Ltd., Village Kiri Afgana, Tehsil Batala District Gurdaspur:-

Member Secretary, Punjab Pollution Control Board informed that M/s. Chadha Sugars and Industries Pvt. Ltd, is a sugarmill and is located at Village-Kiri Afgana, Tehsil-Batala, District Gurdaspur. Initiatives taken by the PPCB were already apprised to the Hon'ble NGT. The departments formed for submission of Action Plans for conservation and restoration of ecology of river 'Beas' including rejuvenation of aquatic life in river Beas met twice on 18.06.18 and 26.06.18 and prepared Action Plans and the same have been examined by Expert Committee in a meetings held on 24.08.2018 & 12.10.2018 at Head Office, Patiala.

He also apprised that in compliance of the endowment programme, afore-said sugar mill has already deposited a sum of Rs. 1.25 crore with the office of the Board. Punjab Pollution Control Board has released Rs. 25.0 lakhs to Department of Forest & Wildlife Preservation, Punjab for the rejuvenation and restoration of ecology of River Beas. He also informed that the recommendations of the committee constituted by PPCB is under review and the action plans would be submitted within a month.

Additional Time required for finalisation of the Committees report for filing before the Hon'ble NGT:-

As Hon'ble NGT vide Order dated 04.09.2018 directed that the issues relating to OA No.345 of 2018 (titled Amber Sachdeva (Vs) UOI & Ors, and OA No 344 of 2018 (titled Sukhpal Singh Khaira, MLA, Punjab Assembly & Ors vs UOI & Ors) i.e., Molasses discharge from M/s. Chadda Sugars Ltd., in River Beas is also required to look into the issues by the Monitoring Committee constituted by Hon'ble NGT vide order dated 24.07.2018. Also, Hon'ble NGT vide order dated 05.10.2018 is also required to look into the issues relating to OA No. 206/2016 titled Capt Hans Raj Singha Vs Union of India & Ors, the matter pertains to massive illegal mining on the private lands of Capt Hans Raj Singha as well as adjoining forest lands in Village Sataun under Nirmaund Sub-division of Kullu district in HP, without obtaining required approvals, also be monitored by the Monitoring Committee apart from finalization and submission of action plans in compliance to the Hon'ble NGT Order dated 24.07.2018 in the matter of O.A No 101/2014 filed by Sobha Singh Vs State of Punjab & Ors. Therefore, it was decided that Monitoring Committee may files its interim report through CPCB by 31.10.2018 seeking additional time of 3 more months for filing its report covering all the afore-said issues.

It was also decided that the monitoring committee may meet at RO, PPCB, Ludhiana on 26.10.2018 at 2 PM for finalisation and approval of the interim

report by all the members and same may be ensured for its filing in Hon'ble NGT on or before 31.10.2018.

Upon deliberations on the issues, following decisions were taken by the monitoring committee for further necessary action for inclusion in the action plans by all the concerned Departments and for submission of the revised action plans:-

1. The time span proposed for establishing new STPs and maintaining the old ones is too long. The proposed time lines should be shortest as possible and the fixed timelines should be strictly ensured by the concerned departments.
2. STP's which have already been installed at different places in Punjab are neither working properly or nor operating at all. As a result, the sewage of towns and Cities is not treated at all or partially treated and are flowing directly into natural water resources. Therefore, it was suggested PPCB to constitute a Task Force comprising officials from different departments for carrying out surprise inspections.
3. All the STPs should have a laboratory facility for analysis of STP treated effluent for routine parameters as prescribed by the PPCB under Consent and all other parameters may be get analysed through Punjab State Water Testing Laboratory as per the frequency prescribed by PPCB.
4. The capacity of the STP's for an area should be in line with the actual flow of sewage outfalls into the river bodies.
5. Presently water is abstracted and supplied more than 300 lpcd which is more than the prescribed per capita water demand and leading to sewage generation more than the existing capacities of STPs. Therefore, Government of Punjab should take a policy decision with regard to the supply of water to the public as per the demand or supply prescribed under the guidelines issued by Ministry of Urban Development.
6. Drains carrying sewage generated from the towns and cities located in the catchment of river Sutlej and river Beas should be stopped by having properly designed sewerage network connectivity to the existing STPs, for ensuring treatment of generated sewage to comply with the discharge norms and thereafter only such treated sewage may be discharged into drains.
7. All the treated sewage complying to the discharge norms may be encouraged to use for beneficial purposes which include agriculture, construction activity and green development. Therefore, action plans also be included from utilisation of treated sewage point of view.

8. For ensuring compliance to the effluent discharge norms notified under the Environment (Protection) Act, 1986, all the outlet of STPs also be connected with continuous online effluent monitoring system with a provisions of CC Cameras and real time data also be transferred to the servers of CPCB and PPCB within next three months.
9. Sludge generated from STPs is required to be pre-treated for using it as a manure. Therefore, all STPs may include a provision of Sludge Digester as a part of STP or a Common sludge digester for methane recovery and such generated sludge from the sludge digester may be used as manure.
10. Presently, all the STPs are not having standby arrangements in STPs and during maintenance; STPs are indulged in bye-passing untreated sewage into the nearby drains. Therefore, all the STPs should take prior permission from PPCB for carrying out any maintenance. Also, all STPs should have adequate capacity of holding tank (s) or standby arrangements for storage of untreated sewage during maintenance or shut down if any. All upcoming STPs also should have the above provisions.
11. Any STP indulged in Bye-passing of untreated sewage, action against concerned officers should be taken by PPCB which include levying of fine under E (P) Act, 1986.
12. All STPs should have a provision of uninterrupted power supply or DG Set of adequate capacity for ensuring proper treatment of sewage during power failures.
13. Training component of all the officials i.e., O & M Staff, field staff or supervisors of the concerned departments involved in operation of the STPs should also be included in the action plans.
14. In rural areas, feasibility of using constructed wet lands or treatment of sewage should be examined by the Water Supply and Sanitation Department.
15. Industrial effluents of the cities or towns should not be allowed to mix up with the domestic sewage. In the industrial cities like Ludhiana, Jalandhar, and Amritsar where industrial effluents have been allowed to mix with domestic sewage, the whole machinery of STP's has been damaged decreasing their working capacity. Therefore, dedicate sewerage network for carrying industrial effluent should be laid for which action plans should be included by all the concerned departments.

16. Presently, STPs are under the control of the different organisations and different organisations are planning in their own way and there is no proper co-ordination. Therefore, Punjab Government should bring all the STPs under one authority so that it becomes easy for planning, commissioning and for ensuring proper operation and maintenance of the existing or upcoming STPs.
17. The sewage pipeline which was laid in 2014 along Kala Sanghian Drain in Jalandhar has not been linked across Jalandhar-Kapurthala railway line near D.A.V. College. The whole sewage water of upstream area goes direct into Kala Sanghian Drain which flows into Satluj. Necessary remedial measures be taken by the concerned authorities.
18. Entire house keeping of Leather complex is very poor. CETP of Leather Complex outlet effluent is also further contaminating Kala Singhian Drain apart from discharge of untreated sewage. Therefore, all the STPs and CETPs should be connected with the real-time effluent monitoring systems with CC camera provision and the real time data needs to be transferred to the servers of PPCB and CPCB by all the STPs and CETPs.
19. Industries of Focal Point and Surgical Complex do not have any CETP. Industrial effluents of Focal Point at present flow directly into Kala Singhian Drain and those of Surgical Complex flow into domestic sewerage system which affects it adversely. Necessary measures to be taken by the concerned authorities.
20. In every industrial area, CETP of suitable capacity and based on state-of-the-technology should be established at the earliest possible as a part of rejuvenation of river Sutlej and River Beas with the financial support of State Government as well as contribution by all the concerned industry.
21. Sewage water of eastern side of Jalandhar is directly flowing into Garha Drain. The dairies along its banks also discharge their cow dung into it leading to faecal contamination of river Sutlej. There is a need for construction of a Bio-gas plant.
22. The STP for private colonies opposite of RCF (Kapurthala), which was sanctioned, has not yet been installed and their sewage water is directly flowing into the Holy Kali Bein and contaminating it. Early, progress with regard to the commissioning of STP should be ensured by the concerned authorities.
23. Irrigation pipeline of Sultanpur Lodhi has been established and is being maintained by us. But at all other places no government department is

willing to take this responsibility. This responsibility should be given to suitable department to ensure the success of the system.

24. There is no PETA Standards prescribed by PPCB for the industries discharging their effluent through CETP. Therefore, PPCB is required to prescribe PETA Standards for all the CETPs in Punjab.
25. All the member industries of CETPs should be directed to have a flow measuring devices at all the outlet of the individual industries and records should be maintained with regard to the total wastewater generated from each industry.
26. PPCB is required to carry out sampling and monitoring of river Sutlej and river Beas on monthly basis and analysis results also be submitted to Nodal Officer of CPCB .
27. Health Department should carryout preliminary health survey in all the villages located surrounding areas of major drains (Budha Nallah, East Bein, Kala Singhian) carrying sewage and contributing to the pollution load in river Sutlej and River Beas and a report be prepared and submitted with action plans, within two months. Health Department also suggested conducting health camps in the afore-said areas periodically. Health Department and PPCB shall also direct private hospitals associations to organise such health camps periodically on voluntary basis in the afore-said areas.

The Meeting ended with vote of thanks to the Chair.

Annexure-I

List of Participants

Forth Meeting OF Monitoring Committee for Ensuring Compliance to Hon'ble NGT order dated 24.07.2018 in the matter of O.A No 101/2014 filed by Sobha Singh & Ors. Vs State of Punjab & Ors.

Date: 17/10/2018
Time: 2.30 PM

Venue: Conference Hall, 2nd Floor,
CPCB, Delhi

S. No.	Name of Official	Organization/ Division
1.	Shri Balbir Singh Seechewal	Member and Member, Punjab Pollution Control Board
2.	Shri. A.Sudhakar	DH, WQM-I , CPCB
3.	Shri. A. S. Dhaliwal	CE, DOLG
4.	Shri Niraj Mathur	Representative of RSPCB
5.	Shri. Krunesh Garg	MS, PPCB
6.	Shri. Sunnel Dave	AD, CPCB
7.	Shri. Anil C. Ranveer	AD, CPCB
8.	Shri. Amit Bansal	CE (South), PWSSB, Pahala
9.	Shri. Rajeev Sharma	SEE, PPCB, Nodal Officer, PPCB
10.	Ms. Sargam Aggarwal	Addl. Commissioner, Municipal Corporation, Ludhiana
11.	Ms. Aashika Jain	Joint Commissioner, Municipal Corporation, Jalandhar
12.	Shri. Ravinder Garg	SE (OEM), Municipal Corporation, Ludhiana
13.	Shri. Rajinder Singh	SE (OEM) , Municipal Corporation, Ludhiana
14.	Shri. Balwinder Singh	SE, Deptt of Housing and Development , GLADA, Ludhiana
15.	Shri.Devinder Kumar Hans	SE, Panchayati Raj, Rural Development and Panchayats, Punjab
16.	Shri.Kishor Chand Bansal	SE, Municipal Corporation, Jalandhar
17.	Dr. G.B.Singh	Asst. Director, Health & FW, Punjab
18.	Dr. Gurpreet	Nodal Officer, H & FW, Punjab
19.	Shri. Tarun Aggarwal	SOE, GLADA, Ludhiana

S. No.	Name of Official	Organization/ Division
20.	Ms. Lata Chauhan	XEN, PWSSB, Chandigarh
21.	Shri. K.P.Goel	EIC, PPMSSB, Chandigarh
22.	Shri Michel	XEN, water Supply & Sanitation Division, Sri Anandpur Sahib, Punjab
23.	Shri K bhushan Goyal	EOMC, Regional Office Local Body
24.	Ms. Shabnam Godara	Petitioner, NGT
25.	Mrs. Shobha Singh	Petitioner, NGT
26.	Shri. Rajendra Prasad	Petitioner, NGT
27.	Shri. Sukhjeet Singh	Ek Onkar Charitable Trust, Seechwal
28.	Shri Gagandeep Sharma	Asst to CE, OEM, Local Govt
29.	Shri Akash Vashishtha	Advocate (Counsel for Applicant Capt. Hans Raj Singha)
30.	Capt. Hans Raj Singha (Retired)	Applicant in OA No.,206/2016
31.	Shri. Ekjot Singh	SDO , Municipal Corporation, Ludhiana
32.	Shri. Kamal Bandhu	Asst. Law Officer, CPCB
33.	Shri J.Chandra Babu	Scientist, CPCB and Nodal Officer, CPCB

Annexure-II

Amendments to be made in the minutes of III Meeting of the Monitoring Committee with regard to the officials responsible for ensuring compliance to the Hon'ble NGT Order dated 24.07.2018

S.NO	Name of Department/ Organisation of Punjab Government	Head of Department	Nodal Officer
1	Municipal Corporation Ludhiana	Smt.Kanwapreet Brar, IAS, Commissioner	Er.Ravinder Garg Executive Engineer(O&M), MCL
2	Municipal Corporation Jalandhar	Sh.Diprava Lakra, IAS, Commissioner.	Er. Kishor Chand Bansal S.E(O&M)
3	Municipal Council, Kapurthala	Sh. Baljinder Singh Deputy director regional Jalandhar	Sh Kulbhusan Goyal Executive Officer
4	Municipal Council, Sultanpur Lodhi		Sh. Tajender Singh Executive Officer
5	Municipal Council, Dasuya		Sh. Madan Singh Executive Officer
6	Municipal Council, Jalalabad	Sh. Ranjit Singh Deputy Director Regional, Ferozepur	Sh. Sukhdev Singh Executive Officer
7	Municipal Council, Jagraon	Ms.Jaspreet Kaur, Deputy Director Regional, Ludhiana	Sh. Sukhdev Singh Randhawa Executive Officer
8	Punjab water supply & Sewerage Board	Sh Ajoy Sharma IAS, CEO	Er. Lata Chauhan Executive Engineer

Detailed Assessment Reports of STPs carried out by the Members of the Committee comprising Shri Balbir Singh Seechewal and the Officials of Punjab Pollution Control Board and the Photographs taken during the visit

1) 105 MLD STP installed at Vill. Balloke, Distt. Ludhiana

Technology of STP:- SBR

Date of Visit: 12-08-2018

Main Observations:-

- Sewage Treatment Plant (STP) is providing treatment services of sewage generated from Ludhiana Town.
- Consent has not obtained from Punjab Pollution Control Board (PPCB).
- The part of sewage going to STP was about 152 MLD was directly being by passed into Budha Nallah. The STP of 105 MLD was in operation. However, the record of the effluent treatment per day of previous and present month was not produced during the visit and thereafter.
- The STP was in operation during the visit.
- Total 8 no. motors were installed in inlet/ lifting section, out of which only 2 motors were in operation & maintenance of one motor was under process. The sludge in sludge collection area was found almost dry condition, which reflects that the sludge is not being removed on regular basis.
- Main unit operations of STP comprise of screening, aeration followed by settling, decanting etc. as per SBR technology.
- Flow meter devices on the inlet and outlet are provided.
- As per analysis results of STP outlet sample collected on 12.08.2018, observed STP effluent characteristics are not meeting with prescribed standards of the Board. The results are as under:- pH= 7.11, COD= 137 mg/l, BOD= 32 mg/l, TSS= 104 mg/l, Electrical Conductivity= 1186 μ s/cm, Ammonical Nitrogen = 19.0mg/l, Total Kjeldahl Nitrogen=21.2mg/l, T.Phosphorous PO₄-P= 0.8 mg/l, Solium Absorption Ratio= 2.21, Residual Sodium Carbonate= -0.86meq/l, Iron= 10.1 mg/l, Nickel= BDL, Total Chrome= BDL, Lead= BDL, Cadmium= BDL, Zinc= 0.40mg/l, Arsenic= BDL, Mercury= BDL, Manganese= 0.34mg/l, Sodium= 94 mg/l, Potassium= 37 mg/l, Total Coliform= 170000 MPN/100 ml, Feacal Coliform= 33000 MPN/100 ml.
- Mode of disposal of treated sewage-into the river Sutlej through Budha Nallah
- Operation and Maintenance of STP is poor, and
- Record keeping is poor.

2) 152 MLD STP installed at Vill. Balloke, Distt. Ludhiana

Technology of STP:- UASB

Date of Visit: 12-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Ludhiana Town.
- Consent has not obtained from PPCB.
- No measuring devices are provided at inlet and outlet to check the quantity of total influent and effluent treated/day.
- The STP was not in operation during visit. The motor no. 7 of main pumping section is out of order. During visit, the maintenance of the same was under process at the site.

- The bye-pass of the STP was found open and the untreated sewage of the STP was being discharged into Buddha Nallah. Hence, the Municipal Corporation (MC), Ludhiana has not provided adequate arrangement for operation of the STP even at the time of any maintenance of the pump / motor of the main pumping section.
- STP is based on UASB technology.
- Flow measuring devices on the inlet and outlet are not provided.
- On 12.08.2018, entire untreated effluent leading to this STP was being bye passed into Budhan Nallah. Hence, the samples were not collected during the visit.
- STP failed to achieve effluent discharge standards of the Board and has not obtained Consent of the Board.
- Mode of disposal of treated sewage into the river Sutlej is about 152 MLD.
- Operation and Maintenance of STP is Poor.
- Record keeping is poor.

3) 111 MLD STP installed at Vill. Bhattian, Distt. Ludhiana

Technology of STP:- UASB

Date of Visit: 12-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Ludhiana Town.
- Not applied for Consent from PPCB.
- App. sewage treated per day at present is about 111 (MLD)
- The STP was in operation during visit.
- The STP has only one final polishing unit & sludge was lying inside it.
- The STP is not having standby (FPU) final polishing unit for the cleaning of existing (FPU).
- Main unit operations in STP comprises of screening, UASB reactor, settling etc. (as per UASB technology).
- Flow meter devices are provided on the outlet but not provided on the inlet of the STP.
- As per analysis results of STP outlet sample collected on 12.08.2018, STP effluent characteristics are not meeting with prescribed standards of the Board. The results are as under:- pH= 7.30, COD= 142 mg/l, BOD= 34 mg/l, TSS= 62 mg/l, Electrical Conductivity= 1857 µS/cm, Ammonical Nitrogen = 22.1 mg/l, Total Kjehldal Nitrogen= 27.4mg/l, T.Phosphorous PO₄-P= 1.0 mg/l, Solium Absorption Ratio= 5.68, Residual Sodium Carbonate= 2.8 meq/l, Iron= 3.84 mg/l, Nickel= BDL, Total Chrome= BDL, Lead= BDL, Cadmium= BDL, Zinc= 0.24mg/l, Arsenic= BDL, Mercury= BDL, Manganese= 0.28mg/l, Sodium= 222 mg/l, Potassium= 24 mg/l, Total Coliform= 94000 MPN/100 ml, Feacal Coliform= 17000 MPN/100 ml.
- STP failed to achieve effluent standards of the Board.
- Mode of disposal of treated sewage in into the river Sutlej and about sewage quantity 111 MLD is disposed
- Operation and maintenance of STP is Poor.
- Record keeping is poor.

4) 50 MLD STP installed at Vill. Bhattian, Distt. Ludhiana

Technology of STP:- SBR

Date of Visit: 12-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Ludhiana Town.
- Consent not obtained from PPCB.

- The STP was in operation during visit. App. sewage treated per day at present is 50 MLD
- The effluent samples were collected during visit from the final outlet of the STP.
- Main unit operations in STP comprise of screening, aeration, settling, decanting etc. as per SBR technology.
- Flow meter devices are provided on the outlet but not provided on the inlet of the STP.
- As per analysis results of STP outlet sample collected on 12.08.2018, observed STP effluent characteristics are not meeting with prescribed standards of the Board. The results are as under:- pH= 7.5, COD= 53 mg/l, BOD= 13 mg/l, TSS= 29 mg/l, Electrical Conductivity= 1678 μ S/cm, Ammonical Nitrogen = 13 mg/l, Total Kjeldahl Nitrogen= 6.0 mg/l, T.Phosphorous PO₄-P= 0.2, Solium Absorption Ratio= 6.6, Residual Sodium Carbonate= 0.8 meq/l, Iron= 0.94 mg/l, Nickel= BDL, Total Chrome= BDL, Lead= BDL, Cadmium= BDL, Zinc= 0.12mg/l, Arsenic= BDL, Mercury= BDL, Manganese= 0.22 mg/l, Sodium= 270 mg/l, Potassium= 21 mg/l, Total Coliform= 79000 MPN/100 ml, Faecal Coliform= 13000 MPN/100 ml.
- About sewage quantity 50 MLD is disposed into the river Sutlej.
- Operation and maintenance of STP is average and requires improvement.
- Record keeping is upto average level only.

5) 48 MLD STP installed at Vill. Jamalpur, Distt. Ludhiana

Technology of STP:- SBR

Date of Visit: 12-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Ludhiana Town.
- Consent has not obtained from PPCB.
- The major components of the STP are lying defunct. The capacity of the STP is 48 MLD. No measuring devices provided at inlet and outlet to check the quantity of total inflow and effluent treated/ day.
- During visit, STP was not in operation and effluent was directly being bye-passed into Buddha Nallah without any treatment.
- The UASB reactor was found choked and was not working properly. The screen was also not working.
- Main unit operations in STP comprise as per UASB technology.
- As per analysis results of final outlet sample collected on 12.08.2018, observed STP effluent characteristics are not meeting with prescribed standards of the Board. The results are as under:- pH= 7.5, COD= 363 mg/l, BOD= 132 mg/l, TSS= 239 mg/l, Electrical Conductivity= 1729 μ S/cm, Ammonical Nitrogen = 18.0 mg/l, Total Kjeldahl Nitrogen= 22.0 mg/l, T.Phosphorous PO₄-P= 0.1, Solium Absorption Ratio= 6.4, Residual Sodium Carbonate= 2.0 meq/l, Iron= 8.42 mg/l, Nickel= BDL, Total Chrome= BDL, Lead= BDL, Cadmium= BDL, Zinc= 2.24 mg/l, Arsenic= BDL, Mercury= BDL, Manganese= 0.27 mg/l, Sodium= 271 mg/l, Potassium= 53 mg/l, Total Coliform= 79000 MPN/100 ml, Faecal Coliform= 13000 MPN/100 ml.
- Mode of disposal of treated sewage into the river Sutlej through Budha Nallah.
- Operation and maintenance of STP is Poor.
- Record keeping is poor.

6) 16 MLD STP installed at Tehsil Jagraon, Distt. Ludhiana

○ Technology of STP:- SBR

Date of Visit: 23-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Jagraon Town.
- Obtained Consent which is valid upto 31.3.2019.
- Approximate sewage treated per day at present is 16MLD.
- Main observations are as follows:
- The STP was not in operation during visit.
- The whole untreated effluent was being bye-passed into drain.
- The sludge thickener was found half-filled and was non-operational.
- Main unit operations in STP comprise as per SBR technology.
- Flow measuring devices at the inlet and outlet are provided.
- As per analysis results of STP outlet sample collected on 23.08.2018, observed STP effluent characteristics are not meeting with prescribed standards of the Board. The results are as under:- pH= 6.35, COD= 512 mg/l, BOD= 120 mg/l, TSS= 118 mg/l, TDS= 886 mg/l, T.Coliform= 90000 MPN/100 ml, F.Coli= 50000 MPN/100 ml, Oil & Grease= 8.8 mg/l, Sulphide= 1.8 mg/l, Sulphate= 45 Chloride= 140 SAR= 8.2, Fe= 4.32 mg/l, Zn=BDL, Mn= ND, Na= 298 mg/l, K= 24 mg/l, Total Cr.= ND, Ni= ND, Cd= ND, Pb= ND.
- STP failed to achieve standards of the Board.
- about sewage quantity 16, MLD is disposed into the drain Nanaksar; and
- Operation and maintenance of STP is Poor.
- Record keeping is poor.

7) 12 MLD STP installed at Tehsil Jagraon, Distt. Ludhiana

○ Technology of STP:- SBR

Date of Visit: 23-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Jagraon Town.
- Consent has not obtained from PPCB.App. sewage treated per day at present is 12(MLD)
- Main observations are as follows:
 - The STP was in operation during visit.
 - The effluent samples were collected during the visit from the final outlet of the STP.
- Main unit operations in STP comprise as per SBR technology.
- Flow measuring devices on the inlet and outlet are provided.
- As per analysis results of STP outlet samples collected on 23.08.2018, observed STP effluent characteristics are not meeting with prescribed standards of the Board. The results are as under:- pH= 7.43, COD= 52 mg/l, BOD= 10 mg/l, TSS= 18 mg/l, TDS= 716 mg/l, T.Coliform= 2000 MPN/100 ml, F.Coliform= 780 MPN/100 ml, Oil & Grease= 4.5 mg/l, Sulphide= 0.6 mg/l, Sulphate= 45 mg/l, Chloride= 62, SAR= 4.79, Fe= 0.2547 mg/l, Zn= 0.043 mg/l, Mn= 0.15 mg/l, Na= 139 mg/l, K= 14 mg/l, Total Chromium (Cr)= ND, Ni= ND, Cd= ND, Pb= ND.
- Sewage quantity 12 MLD is disposed into the Jassowal drain .
- Operation and maintenance of STP is Poor.
- Record keeping is poor.

8) 100 MLD STP installed at Pholriwal, Distt. Jalandhar

o Technology of STP:- UASB

Date of Visit: 13-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Jalandhar Town.
- Not applied for Consent so far.
- Approximate sewage treated per day at present is approximately -100 MLD.
- The STP was in operation during visit.
- Main observation during the visit was that the final polishing pond of STP was almost filled with sludge and needs to be cleaned.
- No Flow measuring devices provided at the inlet and at the outlet of STP
- As per analysis results of STP outlet sample collected on 13.08.2018 observed STP effluent characteristics are as follows: pH= 7.1, COD = 121 mg/l, BOD = 33 mg/l, TSS = 45 mg/l
- STP effluent is not complying with the effluent discharge norms
- About 100 MLD of treated sewage is disposed of into the Garha drain.
- Operation and Maintenance of STP is Poor and Record keeping is poor

9) 25 MLD STP installed at Pholriwal, Distt. Jalandhar

Technology of STP:- SBR

Date of Visit: 13-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Jalandhar Town.
- Not applied for Consent.
- App. sewage treated per day at present is approx. 15 to 20 MLD.
- The STP was in operation during the visit. However, centrifuge system of STP was not in operation.
- Flow measuring devices provided at the inlet and not provided at the outlet.
- As per analysis results of STP outlet sample collected on 13.08.2018 observed STP effluent characteristics are as follows: pH= 7.3, COD = 68 mg/l, BOD = 18 mg/l, TSS = 18 mg/l.
- STP effluent is not complying with the discharge norms
- About sewage quantity 20 MLD is disposed into the Garha drain.
- Operation and maintenance of STP is poor and Record keeping is poor.

10) 25 MLD STP installed at Pholriwal, Distt. Jalandhar

Technology of STP:- SBR

Date of Visit: 13-08-2018

➤ Main Observations:-

- STP is providing treatment services of sewage generated from Jalandhar Town.
- Not applied for Consent.
- App. sewage treated per day at present is approx. 15 to 20 (MLD)
- Centrifuge system and 2 no. blowers in aeration tank were not in operation.
- STP was not in operation during the visit.
- No Flow measuring devices provided at the inlet and at the outlet of STP.
- As per analysis results of STP outlet samples collected on 13.08.2018 observed STP effluent characteristics are as follows: pH= 7.3, COD = 42 mg/l, BOD = 14 mg/l, TSS = 19 mg/l

- STP effluent is not complying with the effluent discharge norms
- About, sewage quantity of 20 MLD is disposed of into the Garha Drain .
- Operation and Maintenance of STP is Poor.
- Record keeping is poor.

11) 50 MLD STP installed at Basti Peer Dad, Distt. Jalandhar

○ Technology of STP:- SBR

Date of Visit: 13-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Jalandhar Town.
- Not applied for Consent by the STP.
- App. sewage treated per day at present is approx. 40 MLD
- During the visit, it was observed that centrifuge machine and screens were not in operation.
- STP was not in operation during the visit.
- Flow measuring devices provided at the inlet and not at the outlet of STP
- As per analysis results of STP outlet sample collected on 13.08.2018 observed STP effluent characteristics are as follows: pH= 7.3, COD = 105 mg/l, BOD = 23 mg/l, TSS = 70 mg/l.
- STP effluent is not complying with the discharge norms
- Sewage quantity about 40 MLD is disposed of into the Kala Singhian drain.
- Operation and Maintenance of STP is Poor.
- Record keeping is poor

12) 25 MLD STP installed at Jaitewali, Hoshiarpur Road, Jalandhar

○ Technology of STP:- SBR

Date of Visit: 13-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Jalandhar Town.
- Not applied for Consent from PPCB
- App. sewage treated per day at present is approx. 8 (MLD)
- The STP was in operation during visit.
- Flow measuring devices provided at the inlet but not at the outlet of STP
- As per analysis results of STP outlet sample collected on 13.08.2018 observed STP effluent characteristics are as follows: pH= 7.41, COD = 31 mg/l, BOD = 7 mg/l, TSS = 10 mg/l. STP outlet effluent is complying with the discharge norms
- Sewage quantity 8 MLD is disposed of into the Jandhu Singha drain.
- Operation and Maintenance of STP is good
- Record keeping is good.

13) 2.6 MLD STP installed at Phillaur (North), Distt. Jalandhar

Technology of STP:- Duck-weed

Date of Visit: 14-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Phillaur Town.
- Not applied for Consent by the STP authorities
- App. sewage treated per day at present is approx. 2.6 (MLD)

- STP lagoons were filled with sludge and untreated effluent was also being by-passed into the drain.
- The STP was in operation during the visit.
- No Flow measuring devices provided at the inlet and at the outlet.
- As per analysis results of by-passed effluent sample collected on 14.08.2018 observed effluent characteristics are as follows: pH= 7.2, COD = 196 mg/l, BOD = 49 mg/l, TSS = 112 mg/l. STP effluent is not complying with the discharge norms
- Mode of disposal of treated sewage is into the Theing drain with and about sewage quantity 2.6 MLD is disposed
- Operation and maintenance of STP is Poor.
- Record keeping is poor.

14) 3 MLD STP installed at Phillaur (South), Distt. Jalandhar

Technology of STP:- MBBR

Date of Visit: 14-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Phillaur Town.
- Not applied for Consent by the STP authorities
- App. sewage treated per day at present is approx. 3 (MLD)
- STP was not in operation during the visit as suction pumps of STP were out of order.
- No Flow measuring devices provided at the inlet and at the outlet
- During visit effluent samples could not be collected as there was no discharge of effluent at outlet of STP as the STP was not in operation.
- About sewage quantity 3 MLD is disposed of into the drain.
- Operation and maintenance of STP is Poor.
- Record keeping is poor.

15) 6 MLD STP installed at Nakodar, Distt. Jalandhar

Technology of STP:- SBR

Date of Visit: 14-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Nakodar Town.
- Not applied for Consent.
- App. sewage treated per day at present is approx. 5 (MLD)
- Mechanical screen were not in operation, during the visit.
- STP was in operation during the visit, however, untreated effluent was also being by-passed.
- Flow measuring devices provided at the inlet and not at the outlet of STP
- The analysis results of by-passed sample collected on 14.08.2018 observed STP effluent characteristics are as follows: pH= 7.6, COD = 40 mg/l, BOD = 10 mg/l, TSS = 15 mg/l.
- STP effluent is not complying with the effluent discharge norms
- Sewage quantity 5 MLD is disposed of into the Bein.
- Operation and maintenance of STP is Poor.
- Record keeping is poor.

16) 2.5 MLD STP installed at Noor Mahal, Jalandhar

Technology of STP:- MBBR

Date of Visit: 14-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Noormahal Town.
- During visit, STP was not in operation and premises found locked and no person available at site.

17) 20 MLD STP installed at Palahi Road at Phagwara.

Technology of STP:- UASB

Date of Visit: 14-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Phagwara Town.
- Not applied for Consent from PPCB. .
- App. sewage treated per day at present is approximately 20 MLD
- The STP was in operation during visit.
- Final polishing unit was filled with sludge and leakage was observed in the by-passed valve.
- No Flow measuring devices provided at the inlet and at the outlet
- As per analysis results of STP outlet sample collected on 14.08.2018 observed STP effluent characteristics are as follows: pH= 7.46, COD = 110 mg/l, BOD = 31 mg/l, TSS = 46 mg/l
- STP effluent is not complying with the consent discharge norms
- About sewage quantity 20 MLD is disposed of into the Phagwara drain.
- Operation and Maintenance of STP is Poor.
- Record keeping is poor

18) 8 MLD STP installed at Palahi Road at Phagwara.

➤ Technology of STP:- MBBR

Date of Visit: 14-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Phagwara Town.
- Not applied for Consent.
- App. sewage treated per day at present is approx. 8 (MLD)
- During visit, sludge separator was not in operation and untreated effluent being by-passed.
- The STP was in operation during visit.
- No Flow measuring devices provided at the inlet and at the outlet
- As per analysis results of STP outlet sample collected on 14.08.2018 observed STP effluent characteristics are as follows: pH= 7.8, COD = 87 mg/l, BOD = 19 mg/l, TSS = 29 mg/l
- STP effluent is not complying with the effluent discharge norms
- About sewage quantity 8 MLD is disposed of into the Phagwara drain
- Operation and maintenance of STP is Poor.
- Record keeping is poor

19) 2.5 MLD STP installed at Begowal.

Technology of STP:- SBR

Date of Visit: 21-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Begowal Town.
- Not applied for Consent .
- App. sewage treated per day at present is approx. 2.5 (MLD)
- The STP was in operation during visit.
- Flow measuring devices provided at the inlet , but not at the outlet
- As per analysis results of STP outlet sample collected on 21.08.2018 observed STP effluent characteristics are as follows: pH= 7.73, COD = 36 mg/l, BOD = 8 mg/l, TSS = 15 mg/l
- STP effluent is complying with the consent discharge norms
- About sewage quantity 2.5 MLD is disposed of into the bein
- Operation and maintenance of STP is poor.
- Record keeping is poor.

20) 4 MLD STP installed at Bholath.

Technology of STP:- WSP

Date of Visit: 21-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Bholath Town.
- Not applied for Consent.
- App. sewage treated per day at present is approx. 4 (MLD)
- The STP was in operation during visit. Ponds were filled with sludge and require cleaning.
- No flow measuring devices provided at the inlet but not at the outlet.
- As per analysis results of STP outlet sample collected on 21.08.2018 observed STP effluent characteristics are as follows: pH= 8.41, COD = 118 mg/l, BOD = 30 mg/l, TSS = 24 mg/l
- STP effluent is not complying with the effluent discharge norms
- Mode of disposal of treated sewage is into Bein and partly onto land for irrigation and about sewage quantity 4 MLD is disposed
- Operation and maintenance of STP is Poor
- Record keeping is poor

21) 2.6 MLD STP installed at Sultanpur Lodhi.

Technology of STP:- WSP

Date of Visit: 21-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Sultanpur Lodhi Town.
- Not applied for the Consent.
- App. sewage treated per day at present is approx. 2.6 (MLD)
- Screen bars found damaged and one pump out of three was not in operation.
- STP was in operation during visit.
- No Flow measuring devices provided at the inlet and at the outlet.
- As per analysis results of STP outlet sample collected on 21.08.2018 observed STP effluent characteristics are as follows: pH= 7.50, COD = 128 mg/l, BOD =

32 mg/l, TSS = 30 mg/l. STP effluent is not complying with the effluent discharge norms

- Mode of disposal of treated sewage is onto land for irrigation/plantation and about sewage quantity 2.6 MLD is disposed
- Operation and maintenance of STP is Poor.
- Record keeping is poor

22) 25 MLD STP installed at Kapurthala.

Technology of STP:- MBBR

Date of Visit: 21-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Kapurthala Town.
- Not applied for Consent.
- App. sewage treated per day at present is approx. 25 (MLD)
- Only one pump out of 4 no. lifting pumps were not in operation and untreated effluent was being bye-passed into bein.
- The STP was in operation during visit.
- No Flow measuring devices provided at the inlet and at the outlet
- As per analysis results of STP outlet sample collected on 21.08.2018 observed STP effluent characteristics are as follows: pH= 6.9, COD = 884 mg/l, BOD = 140 mg/l, TSS = 42 mg/l
- STP effluent is not complying with the effluent discharge norms
- Mode of disposal of treated sewage as well as bye-passed untreated effluent are into the Bein with and about sewage quantity 25 MLD is disposed
- Operation and maintenance of STP is Poor.
- Record keeping is poor

23) 8 MLD STP installed at Phagwara (South) Hadiabad.

Technology of STP:- MBBR

Date of Visit: 14-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Phagwara Town.
- Not applied for Consent.
- App. sewage treated per day at present is approx. 8 (MLD)
- The STP was in operation during visit. Sludge sepeator was not in operation.
- No flow measuring devices provided at the inlet and at the outlet .
- As per analysis results of STP outlet sample collected on 14.08.2018 observed STP effluent characteristics are as follows: pH= 7.7, COD = 86 mg/l, BOD = 18 mg/l, TSS = 34
- STP effluent is not complying with the consent discharge norms
- About sewage quantity 8 MLD is disposed of treated sewage into the Phagwara drain
- Operation and maintenance of STP is Poor
- Record keeping is poor

24) 4 MLD STP installed at Municipal Council, Tanda.

Technology of STP:- MBBR

Date of Visit: 21-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from 01 Town. Town-wise Sewage generation in Tanda Town is 2.5 MLD.
- Not applied for Consent from PPCB.
- App. sewage treated per day at present is 2.5 (MLD)
- STP is based on MBBR Technology. 4 MLD sewage treatment plant of Tanda has been installed by Thermix Pvt. Ltd. The survey team found that the sludge system of the Plant was not working. The water was being drained by-pass.
- The team took samples of treated water. Some water was also flowing into the drain connecting the treatment plant with the Holy Bein.
- Main unit operations in STP comprise of inlet chamber, Mechanical Screen, grit chamber, MBBR tanks, clarifier, chlorine contact tank.
- Flow measuring devices provided at the inlet, but not at the outlet.
- As per analysis results of STP outlet sample collected on 21.08.2018, observed STP effluent characteristics are as follows: pH -7.1, TSS - 19 mg/l, TDS - 443 mg/l, COD - 75 mg/l, BOD- 20 mg/l, Phosphate - 1.4 mg/l, T. Phosphorus - 0.46 mg/l, Sulphide - BDL mg/l, Ammonical Nitrogen - 6.0 mg/l, TKN - 8.4 mg/l, T.Coliform- 7900 MPN/100 ml, F.Coliform- 2200 MPN/100 ml.
- STP effluent is not complying with the effluent discharge norms.
- About sewage quantity 2.5 MLD is disposed into the local drain leading to Holy Bein
- Operation and maintenance of STP is Poor
- Record keeping is Poor.

25) 1 MLD STP installed at Municipal Council, Sham Churasi.

Technology of STP:- Stabilization Pond

Date of Visit: 16-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from 01 Town. Sewage generation from Sham Churasi is @ 0.8 MLD.
- No Consent obtained from PPCB by the STP Authorities
- App. sewage treated per day at present is 0.8 (MLD).
- 1 MLD sewage treatment plant has been installed in Sham Churasi by L & T Co. No operator has been appointed at the plant and it remains non-functional most of the time. The team found the untreated water was flowing through a gutter by the boundary wall of the Plant into the Nasrala Choe. Although a pipeline has been laid down by Irrigation Department and a Motor Pump has also been installed to supply this water for irrigation, but its operation has not yet been started.
- Unit operation of STP comprise of inlet chamber, Mechanical Screen, anaerobic pond, facultative ponds, imaturation ponds.
- No Flow measuring devices provided at the inlet and at the outlet
- As per analysis results of STP outlet sample collected on 16.08.2018, observed STP effluent characteristics are as follows: pH 8.6, COD-140 mg/l, BOD -37 mg/l, Sulphide -2.0 mg/l, T.Coliform-9400 MPN/100ml, F.Coliform- 2300 MPN/100ml, Amn. Nitrogen-24.8 mg/l, TKN. 26.9 mg/l, T. Phosphorus -1.9 mg/l, TDS- 431 mg/l, TSS -26 mg/l, Electrical Conductivity - us/cm 68.2, Sulphide -2 mg/l

- STP effluent is not complying with the effluent discharge norms.
- About sewage quantity 0.8 MLD is disposed of into the Nasrala Choe
- Operation and maintenance of STP is Poor
- Record keeping is Poor.

26) 6 MLD STP installed at Municipal Council, Nawanshahr.

➤ Technology of STP:- SBR Date of Visit: 16-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from 01 Town. Town-wise sewage generation are as follows: Nawanshahr City 5 MLD.
- Consent not obtained from PPCB
- App. sewage treated per day at present is 5(MLD). 3 MLD water treatment plant has been installed in Banga. It is being run by GSJ Envo Ltd., Sludge system was started only at the time of the visit of the survey team. Untreated water was found being thrown from Pump House bye-pass into the drain. Sample of this water were taken.
- Main unit operations in STP comprise of Collection tank, Grit Chamber, SBR tanks (2no.), Chlorine Contact tank, Sludge Sump, outlet
- Flow measuring devices provided at the inlet but not provided at the outlet
- As per analysis results of STP outlet sample collected on 16.08.2018, observed STP effluent characteristics are as follows: pH 7.6, COD 84 mg/l , BOD -124 mg/l , TKN -12 mg/l, T. Phosphorus 1.4 mg/l , TKN -12 mg/l, Ammonical Nitrogen - 19 mg/l, Sulphide 1.2 mg/l, T- Coli -2100 MPN/100ml , F-Coli 610 MPN/100 ml .
- STP effluent is not complying with the discharge norms.
- Mode of disposal of treated sewage in into the east bain and about sewage quantity 5 MLD is disposed
- Operation and maintenance of STP is poor.
- Record keeping is poor.

27) 5 MLD STP installed at Municipal Council, Mukerian.

Technology of STP:- MBBR Date of Visit: 21-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from 01 Town i.e., Mukerian Town @ 3MLD.
- Consent not obtained from PPCB .
- App. sewage treated per day at present is 3 (MLD)
- 5 MLD Treatment Plant based on MBBR Technology has been installed in Mukerian by Thermix Pvt. Ltd. The survey team found that the sludge system was not being operated regularly.
- Samples of treated water were taken. Contaminated water from upstream area was found flowing in a nearby drain, down directly into the Beas River.
- Main unit operations in STP comprise of inlet chamber, Mechanical Screen, grit chamber, MBBR tanks, clarifier, chlorine contact tank.
- Flow measuring devices provided at the inlet , but not at the outlet
- As per analysis results of STP outlet sample collected on 21.08.2018, observed STP effluent characteristics are as follows: pH 7.2, TSS - 34 mg/l., BOD-18 mg/l., TDS-719 mg/l., COD - 76 mg/l., T. Phosphrous - 1.2 mg/l., Sulphide - 1.4 mg/l., Amn. Nitrogen - 8.0mg/l., TKN - 11.0 mg/l., T.Coli – 2100 and F.Coli – 610 MPN/100 ml.

- STP effluent is not complying with the effluent discharge norms.
- Mode of disposal of treated sewage into the local drain leading to Holy Bein
- Operation and maintenance of STP is Poor.
- Record keeping is Poor

28) 30 MLD STP installed at Municipal Corporation, Hoshiarpur.

Technology of STP:- MBBR

Date of Visit: 16-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Hoshiarpur City. Sewage generation from Hoshiarpur City is about 15 MLD.
- No Consent obtained from PPCB.
- App. sewage treated per day at present is 15 (MLD)
- 30 MLD treatment plant has been installed on the Western side of Hoshiarpur. Based on MBBR Technology, this plant has been built up by Thermix Co. It is treating only 15 MLD water, which is half of its total capacity. Sludge separation system was not working, no pipe line had been laid to use treated water for irrigation.
- Main unit operations in STP comprise of inlet chamber, Mechanical Screen, grit chamber, MBBR tanks, clarifier, chlorine contact tank.
- Flow measuring devices provided at the inlet and not at the outlet
- As per analysis results of STP outlet sample collected on 16.08.2018, observed STP effluent characteristics are as follows: pH 7.16, Chloride-9.2 mg/l, COD-80 mg/l, Total Suspended Solids -14 mg/l, BOD -16 mg/l, TDS -746 ng/l, T. Phosphorus-0.6 mg/l, TKN 25.3 mg/l, Sulphide-BDL mg/l, SAR -3.17, T- Coliform - 9400 MPN/100ml, F-Coli 2100-MPN/100ml
- STP effluent is non complying with the consent discharge norms.
- Mode of disposal of treated sewage is into the Bhangi Choe and about sewage quantity 15 MLD is disposed
- Operation and maintenance of STP is poor.
- Record keeping is Poor.

29) 4 MLD STP installed at Municipal Council, Dasuya.

Technology of STP:- Stabilization Pond

Date of Visit: 21-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from 01 Town. Sewage generation from Dasuya is @ 3 MLD.
- Consent not obtained from PPCB.
- App. sewage treated per day at present is 3 (MLD)
- The survey team visited the treatment plant of Dasuya which is based on USB technology. Its ponds were found full of sludge. At the time of visit, treatment plant was operating. Samples of treated water were taken.
- Main unit operations in STP comprise of inlet chamber, Mechanical Screen, anaerobic pond, facultative ponds, maturation ponds.
- No Flow measuring devices provided at the inlet and outlet
- As per analysis results of STP outlet sample collected on 21.08.2018 observed STP effluent characteristics are as follows: pH 7.52, TDS -560 (Mg/l), TSS- 23 (Mg/l), COD - 63 (Mg/l), BOD - 16 (Mg/l), sulphide - BDL (Mg/l), T.Phosphate - 2.45 (Mg/l), T. Phosphorse - 0.8 (Mg/l), Amn. Nitrogen - 12.8 (Mg/l), TKN - 16 (Mg/l), T.Coli.- 8400 MPN/100 ml, F.Coli - 1300 MPN/100 ml..

- STP effluent is non complying with the effluent discharge norms.
- Mode of disposal of treated sewage into the drain leading to Holy Bein -about sewage quantity 3 MLD is disposed
- Operation and maintenance of STP is poor
- Record keeping is poor.

30) 3 MLD STP installed at Municipal Council, Banga.

Technology of STP:- SBR

Date of Visit: 16-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from 01 Town. Sewage generation from Banga City is about 2.8MLD.
- Consent not obtained from PPCB..
- App. sewage treated per day at present is 2.8(MLD)
- 3 MLD water treatment plant has been installed in Banga. It is being run by GsjEnvo Ltd., Sludge system was started only at the time of the visit of the survey team. Untreated water was found being thrown from Pump House bye-pass into the drain. Sample of this water were taken.
- Main unit operations in STP comprise of Collection tank, Grit Chamber, SBR tanks (2no.), Chlorine Contact tank, Sludge Sump, outlet
- Flow measuring devices provided at the inlet (Yes) and at the outlet (No)
- As per analysis results of STP outlet sample collected on 16.08.2018, observed STP effluent characteristics are as follows: pH 7.56, TDS – 728 mg/I, COD – 48 mg/I, BOD-15 mg/I, TKN -12.0 mg/I, T. Phosphorus -1.4 mg/I, TKN – 20 mg/I, Ammonical Nitrogen 10.8 mg/I, Sulphide 2.2 mg/I, T- Coli – 5800 MPN/100ml .
- STP effluent is non complying with the effluent discharge norms
- Mode of disposal of treated sewage into Happaol Choe and about sewage quantity 2.8 MLD is disposed
- Operation and maintenance of STP is poor.
- Record keeping is poor

31) 4 MLD STP installed at STP Dharamkot.

Technology of STP:- SBR

Date of Visit: 20-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Dharamkot Town.
- Consent not obtained from PPCB.
- App. sewage treated per day at present is 2.5 MLD
- Sludge system not working properly, however log books have been maintained
- Main unit operations in STP comprise of Sequential Batch Reactor (SBR) components.
- Flow measuring device provided at the inlet, but not at the outlet
- As per analysis results of STP outlet sample collected on 20.08.2018, observed STP effluent characteristics are as follows: BOD = 16 mg/l, TSS = 30 mg/l, COD = 48 mg/l, Phosphate = 0.2 mg/l, FC = 1200 MPN/100ml. STP effluent is not complying with the effluent discharge norms
- Mode of disposal of treated sewage in into the river
- Operation and maintenance of STP is not satisfactory
- Record keeping is poor.

32) 4 MLD STP installed at STP Makhu.

Technology of STP:- SBR

Date of Visit: 20-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Makhu Town.
- Consent not obtained from PPCB.
- App. sewage treated per day at present is 1.2 MLD.
- Some parts of Makhu town have not been tapped to treat in the STP
- Main unit operations in STP comprise of Sequential Batch Reactor (SBR) components.
- Flow measuring device provided at the inlet, but not at the outlet
- As per analysis results of STP outlet sample collected on 20.08.2018, observed STP effluent characteristics are as follows: BOD = 68 mg/l, TSS = 276 mg/l, COD = 242 mg/l, Phosphate = 0.2 mg/l, FC = 220000 MPN/100ml for the untreated water discharged directly into the drain as MPS was not working. STP effluent is not complying with the consent discharge norms
- Mode of disposal of treated sewage in into the drain
- Operation and maintenance of STP is not satisfactory
- Record keeping is good

33) 27 MLD STP installed at STP Moga.

Technology of STP:- SBR

Date of Visit: 20-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Moga Town.
- Consent not obtained from PPCB.
- App. sewage treated per day at present is 20 MLD
- Partial effluent is being bypassed into drain directly without treatment from MPS and partially after treatment in STP into Moga drain.
- Main unit operations in STP comprise of Sequential Batch Reactor (SBR) components.
- Flow measuring device provided at the inlet, but not at the outlet
- As per analysis results of STP outlet sample collected on 20.08.2018, observed STP effluent characteristics are as follows: BOD = 15 mg/l, TSS = 32 mg/l, COD = 61 mg/l, Phosphate = 0.9 mg/l, FC = 2100 MPN/100ml for the treated water discharged into the drain
- STP effluent is not complying with the consent discharge norms
- Mode of disposal of treated sewage- into the drain
- Operation and maintenance of STP is not satisfactory
- Record keeping is poor.

34) 4 MLD STP installed at STP Talwandi Bhai.

Technology of STP:- SBR

Date of Visit: 20-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Talwandi Bhai Town.
- Consent not obtained from PPCB.
- App. sewage treated per day at present is 1.6 MLD

- There is a need of pipeline for irrigation purpose.
- Main unit operations in STP comprise of Sequential Batch Reactor (SBR) components.
- Flow measuring device provided at the inlet, but not at the outlet
- As per analysis results of STP outlet sample collected on 20.08.2018, observed STP effluent characteristics are as follows: BOD = 17 mg/l, TSS = 32 mg/l, COD = 52 mg/l, Phosphate = 0.8 mg/l, FC = 920 MPN/100ml for the treated water discharged into the drain
- STP effluent is not complying with the discharge norms
- Mode of disposal of treated sewage is into the drain
- Operation and maintenance of STP is not satisfactory
- Record keeping is poor.

35) 8 MLD STP installed at STP Zira.

Technology of STP:- MBBR

Date of Visit: 20-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Zira Town.
- Consent not obtained from PPCB.
- App. sewage treated per day at present is 4.1 MLD
- Sludge system was not working properly and there is need of pipeline for irrigation purpose.
- Main unit operations in STP comprise of Moving Bed Bio Reactor (MBBR) components.
- Flow measuring device provided at the outlet, but not at the inlet
- As per analysis results of STP outlet sample collected on 20.08.2018, observed STP effluent characteristics are as follows: BOD = 11 mg/l, TSS = 20 mg/l, COD = 32 mg/l, Phosphate = 0.3 mg/l, FC = 820 MPN/100ml for the treated water discharged into the drain
- STP effluent is just complying (except BOD=11 mg/L against required standard of 10 mg/L) with the consent discharge norms
- Mode of disposal of treated sewage in into the drain
- Operation and maintenance of STP is not satisfactory
- Record keeping is poor.

36) 5 MLD STP installed at MC Kurali .

Technology of STP:- SBR

Date of Visit: 31-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Kurali Towns.
- Consent not obtained from PPCB
- App. Sewage treated per day at present is 2.5-3.0 (MLD)
- Main unit operations in STP comprises of O& G removal, SBR tank, centrifuge.
- Flow measuring devices provided at the inlet of STP
- As per analysis results of STP outlet sample collected on 05/10/2018 and as per the analysis report, the STP was found complying with the standards prescribed by the Board.
- Mode of disposal of treated sewage into Siswan drain and operations and maintenance of STP is not satisfactory.poor.
- Record keepings is poor.

37) 6.75 MLD STP installed at BBMB, Naya Nangal.

Technology of STP:- MBBR

Date of Visit: 30-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from BBMB Nangal Township Towns.
- Consent not obtained from PPCB
- App. sewage treated per day at present is 5.4 (MLD)
- Main unit operations in STP comprise of Screener, Clarifier, MBBR Reactor and CCT Tank.
- Flow measuring devices provided at the inlet , but not at the outlet.
- Effluent sample were not taken during visit as the sample has already collected in the previous time.
- STP effluent is not complying with the discharge norms
- Mode of disposal of treated sewage is used for irrigation of agriculture fields as per the demand of the farmers. Remaining water is discharged into the river Sutlej.
- Operation and maintenance of STP is poor.
- Record keeping is good.

38) 8 MLD STP installed at MC Nangal (STP Maujowal)

Technology of STP:- ASP

Date of Visit: 30-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Nangal Towns.
- Consent not obtained from PPCB
- App. sewage treated per day at present is 2.5(MLD)
- STP, Maujowal @ 8 MLD was found not in operation as the clarifier was under maintenance.
- The untreated effluent sample taken.
- Main unit operations in STP comprise of Primary Clarifier, ASP Reactor, Secondary Clarifier and CCT Tank.
- Flow measuring devices provided at the inlet was not operational and at the outlet was operational.
- STP outlet sample collected on 30.08.2018. Analysis results of the ETP Outlet is observed as pH-6.8, TSS – 104 mg/I, COD – 138 mg/I, BOD-41 mg/I, Ammonical Nitrogen- 7.7 mg/I, SAR-0.7, Residual Sodium Carbonate-0.3 meq/l, T.Phosphorus -0.8 mg/I, Elec. Conductivity- 434 us/cm, F.Coli-3300 MPN/100 ml.
- As per the analysis report the STP failed to comply with the effluent discharge standards
- Mode of disposal of treated sewage into the river Sutlej.
- Record keeping is poor.

39) 5 MLD STP installed at STP Brari (MC Nangal).

Technology of STP:- ASP

Date of Visit: 30-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Nangal Towns.

- Consent not obtained from PPCB - Not Obtained
- App. sewage treated per day at present is 2.5(MLD)
- The main observation regarding sludge system not operated regularly.
- Main unit operations in STP comprise of Primary Clarifier, ASP Reactor, Secondary Clarifier and CCT Tank.
- Flow measuring devices provided at the inlet was not operational and at the outlet was operational.
- STP outlet sample collected on 30.08.2018 and the analysis results of STP indicates Analysis results of the ETP Outlet is observed as pH-7.2, TSS – 26 mg/I, COD – 28 mg/I, BOD-9 mg/I, Ammonical Nitrogen- 3.5 mg/I, SAR-1.2, Residual Sodium Carbonate-0.9 meq/l, Phosphorus -0.5 mg/I, Elec. Conductivity- 622 us/cm, F.Coli-1400 MPN/100 ml.
- STP effluent is not complying with the discharge norms
- Mode of disposal of treated sewage is into the river Sutlej.
- Operation and maintenance of STP is not satisfactory.
- Record keeping is poor.

40) 8 MLD STP installed at MC Sri Anandpur Sahib.

- Technology of STP:- MBBR Date of Visit: 30-08-2018
- **Main Observations:-**
- STP is providing treatment services of sewage generated from Anandpur Sahib Towns.
- Consent not obtained from PPCB
- App. sewage treated per day at present is 1.9 (MLD)
- STP was found not in operation. The untreated effluent is being directly discharged into adjoining drain. The physical appearance shows that the plant was not in operation since long time.
- Main unit operations in STP comprise of Screener, Clarifier, MBBR Reactor and CCT Tank.
- Flow measuring devices provided at the inlet - Yes. At the outlet - Yes.
- STP outlet sample collected on 30.08.2018 and as per the analysis report the STP failed to confirm the standards
- STP effluent is complying/ or non complying with the consent discharge norms - Not Complying.
- Mode of disposal of treated sewage into the river Sutlej.
- Operation and maintenance of STP is not satisfactory.
- Record keeping is poor.

41) 2 MLD STP installed at MC Roopnagar (Sada Barth).

Technology of STP:- SBR

Date of Visit: 31-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Rupnagar Towns.
- Consent not obtained from PPCB
- App. sewage treated per day at present is 0.3 (MLD)
- STP was found not in operation. The untreated effluent is being directly discharged into adjoining drain. The physical appearance shows that the plant was not in operation since long time.
- Main unit operations in STP comprise of Bar Screen, SBR Chambers and Chlorine Contact tank.
- Flow measuring devices provided at the inlet and at the outlet

- STP was found not in operation. The untreated effluent is being directly discharged into adjoining drain. The physical appearance shows that the plant was not in operation since long time.
- STP effluent is not complying with the consent discharge norms - Not Complying.
- Mode of disposal of treated sewage into the river Sutlej.
- Operation and maintenance of STP is not satisfactory.
- Record keeping is poor.

42) 10 MLD STP installed at Bari Haveli, Ropar.

Technology of STP:- SBR

Date of Visit: 31-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Rupnagar Towns.
- Consent not obtained from PPCB
- App. sewage treated per day at present is 4.5 (MLD)
- STP was found not in operation. The untreated effluent is being directly discharged into adjoining drain leading to 1.5 -2.0 KM away from the STP for stagnation in open plot. Effluent sample collected from the MPS bypass line. The soil conservation department has provided separate line for the utilization of treated effluent for irrigation purpose but, the physical appearance shows that the pump was lying defunct.
- Main unit operations in STP comprise of Bar Screen, SBR Chambers and Chlorine Contact tank.
- Flow measuring devices provided at the inlet and at the outlet
- STP was found not in operation. The untreated effluent is being directly discharged into adjoining drain leading to 1.5 -2.0 KM away from the STP for stagnation in open plot. Effluent sample collected from the MPS bypass line. The soil conservation department has provided separate line for the utilization of treated effluent for irrigation purpose but, the physical appearance shows that the pump was lying defunct.
- STP effluent is not complying with the discharge norms
- Mode of disposal of treated sewage is onto the land for irrigation. Provision has been made to discharge the remaining water into the river Sutlej.
- Operation and maintenance of STP is not satisfactory.
- Record keeping is poor.

43) 2.5 MLD STP installed at Rasulpur, Ropar.

Technology of STP:- SBR

Date of Visit: 31-08-2018

Main Observations:-

- STP is providing treatment services of sewage generated from Rupnagar Towns.
- Consent not obtained from PPCB
- App. sewage treated per day at present is 0.5 (MLD)
- STP was found in operation. The main observation noted by the team that they were not regularly operating its sludge/centrifuge system.
- No sample were taken by the team during the visit .
- Main unit operations in STP comprise of Bar Screen, SBR Chambers and Chlorine Contact tank.
- Flow measuring devices provided at the inlet and at the outlet.
- STP was found in operation.

- Mode of disposal of treated sewage into the river Bhudki Nadi is 0.3 MLD and the wastewater reaches Sutlej only in rainy season.
- Operation and maintenance of STP is not satisfactory.
- Record keeping is poor.



Polluted water by passing at Balloki Treatment Plant and untreated water is discharged into Buddha Nallah



Ponds of Balloki Treatment Plant filled with Sludge



111 MLD Bhattian Treatment Plant Ludhiana is not working and Dirty water flows into Sutlej



Untreated industrial effluent of factories of Focal Point at Tajpur road discharge into Buddha Nallah, Ludhiana.



Sewage of Tajpur Road throwing in budda Naala Ludhiana directly.



Untreated sewage of Gita Colony discharge into Buddha Nallah directly.



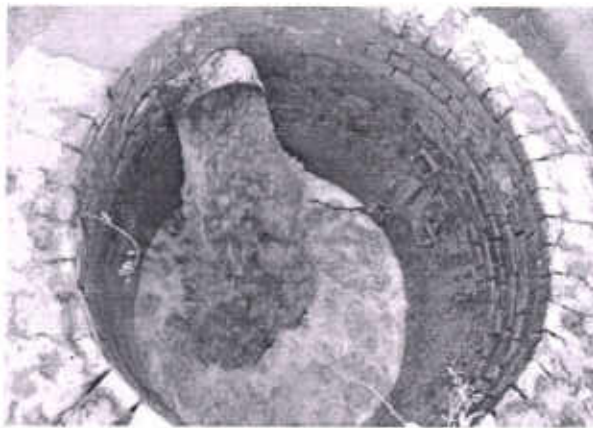
Untreated Sewage is Tibba road discharged into Budda Nallah Ludhiana directly



Untreated Sewage and Industrial Effluent is discharged into Buddha Nallah Ludhiana at backside of Lord Krishna Ayurvedic College



Dirty water flowing into Budda Nallah near Gurdwara Gau Ghat at Ludhiana



The whole untreated effluent of Jagraon 16 MLD was being bye-passed into drain



Dirty water flowing into Budda Nallah Backside of D.M.C Ludhiana



Dirty water flowing into Budda Nallah Backside of Ramsharan Mandir Ludhiana



Jamalpur Treatment Plant is out of order, Polluted water is flowing direct into Buddha Nullah Ludhiana



Dirty water of Mahavir Complex and dying industries coming directly in Budda Nalla Ludhiana



Sludge system of West Jagraon Treatment Plant is not working.(16 MLD STP)



Sludge system of Jagraon East Treatment Plant is not working.(12 MLD)



Sludge System of STP 50 MLD of Basti pir daad Jalandhar is not working regularly.



M.P.S of Basti Pirdaad Treatment Plant screen system is out of order from long time ago.



Ponds of 111 M.L.D Pholriwal Treatment Plants Jalandhar are full of Sludge.



Dried up beds of 111 M.L.D Treatment Plant at Pholriwal Jalandhar which were meant for disposing off sludge



Sludge system of newly built Treatment Plant at Nakodar Jalandhar is not working



Contaminated water being thrown by pass into white Bein from Nakodar S.T.P Jalandhar



Treatment Plant of Nurmehal Jalandhar is not working and the gate is locked.



Foundation stone of Nurmehal Treatment Plant Jalandhar was laid without starting its operation

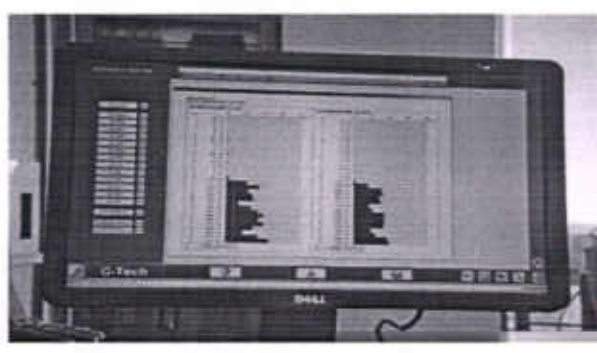


S.T.P of Phillaur Jalandhar (South Area) being not in operation ,dirty



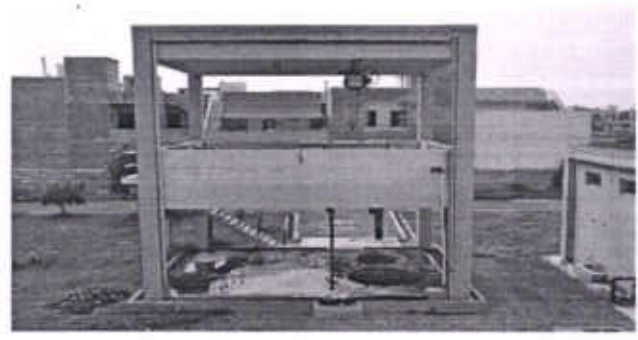
bye pass pipes of untreated water of Treatment Plant of Phillaur Jalandhar

water spreads on the road and go directly into sutlej river.



According to SCADA system Moga treatment plant is not working regularly and properly.

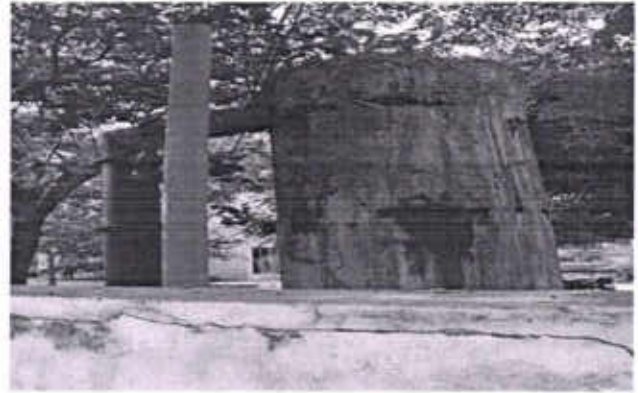
(North Area)



Sludge system of Moga treatment plant is not working



Dirty water flowing bye pass into the drain from Moga STP.



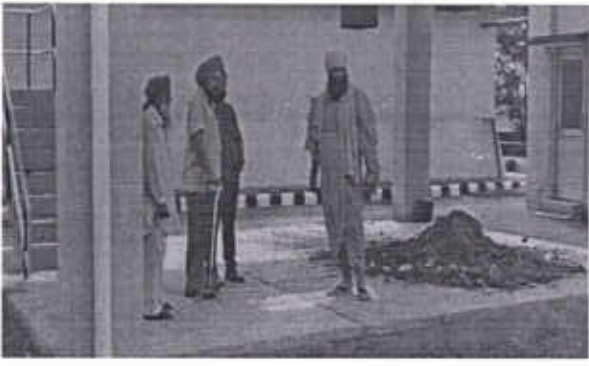
Dirty water being thrown direct into bye pass raft from Moga STP's Bypass



Sludge system of Dharamkot treatment Plant Moga is not working



Dharamkot STP Moga with facility to dispose off bye pass into drain for dirty water



Sludge system of Ropar Waddi Haveli treatment plant is not working



Dirty water bye passing the treatment plant near Ropar Waddi Haveli Roper



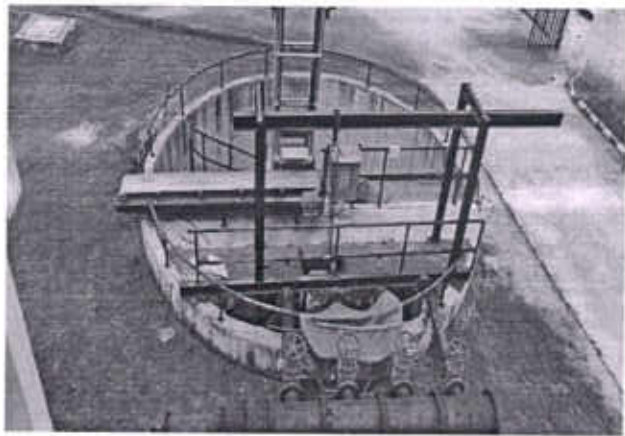
Pump system of Treatment Plant at Nangal road Ropar is not working from long time ago.



Dirty water of Nangal road Ropar flowing into drain



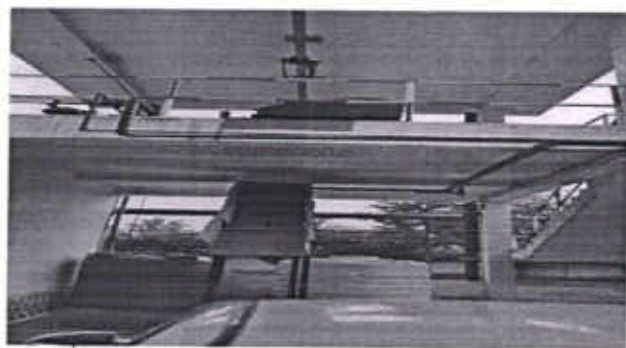
Sludge system of Rasoolpur Treatment Plant Ropar is not working



M.P.S of Kurali Treatment Plant Mohali is out of order



Sludge system of treatment plant at Anandpur Sahib Ropar is not operating



Sludge system of treatment plant of Anandpur Sahib Roper is not working



Dried up sludge beds at Maujewal Nangal Treatment Plant



Treatment Plant of Maujewal Nangal is not working



Pond of Brari Nangal STP Roper is full of sludge



Sludge press at Brari Nangal treatment Plant is not working



Sludge system of treatment plant of B.B.M.B colony Nangal Roper is not working



Dirty water of Nikku Nangal



Sludge system of Hushiarpur Treatment Plant is not working



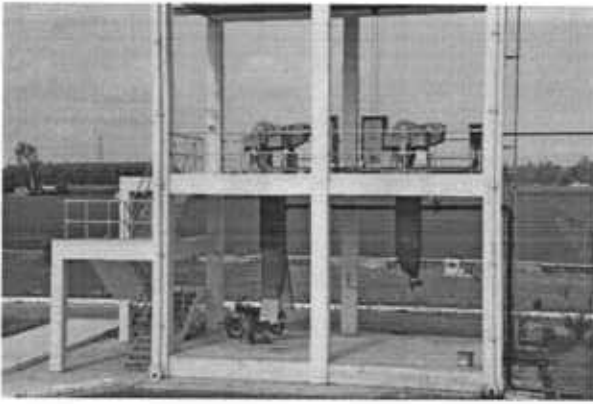
Dirty water being thrown direct into Nasrala Choe



Pumping station of Shamchurasi is not working



Sludge system of Mukerian treatment Plant is not working



Sludge system of Tanda treatment Plant is not working



Dirty water of Tanda flowing into the Kali Bein



Ponds of Dasuya treatment Plant are full of sludge



Boundry of Dasuya treatment plant require cleaning



Dirty water bye passing from Kapurthala STP



Taking Samples of dirty water of Kapurthala byepassing treatment plant



Irrigation system of Bhulath is not working



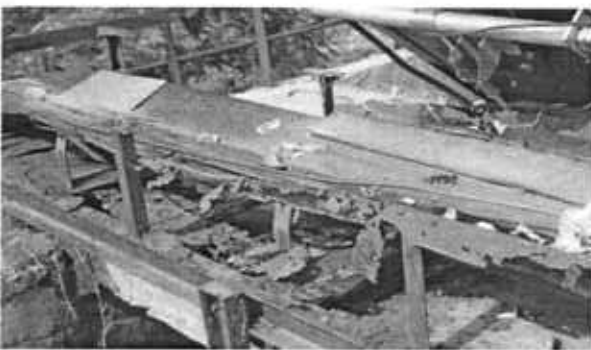
Sludge system of Begowal treatment plant is not working



Dirty water being by passed into phagwara drain from M.P.S of Hadiabad treatment plant



Sludge system of Hadiabad treatment plant is not working



Screening Belt of 30 M.L.D Phagwara S.T.P is not working



Ponds of 30 M.L.D Phagwara STP are full of Sludge



Sludge system of M.L.D Phagwara (North Area) treatment plant is not working



Pipes conveying untreated water to Phagwara Drain



Ponds of Sultanpur Lodhi treatment plant are full of sludge



Dried up sludge system of Nawan Shehar treatment plant



Dirty water being bye passed into the drain from Banga Treatment Plant



Sludge system of Makhu Treatment Plant is not working



Sludge system of Zira treatment plant is not working



Sludge system of treatment plant of Talwandi Bhai is not working

Subject: **Interim Report of the Monitoring Committee for filing in Hon'ble NGT**
To: jcb.cpcb@nic.in

Date: 10/28/18 03:09 PM
From: NIRAJ MATHUR <nirjrpcb@gmail.com>

202

Standards STP.pdf (1.7MB)

Interim Report Monitoring Committee NGT.docx (19.3MB)

Sir,

The report with corrections in track mode is attached.

Additionally, it may please be noted that:-

1. Refer para 2.2 at page 7 line 3 to 5

In the standards for treated sewage notified by MoEFCC vide Notification dated 13.10.2007 (Copy attached for ready reference), only four parameters are there viz. pH, BOD, TSS and Fecal Coliform (FC). PPCB to confirm whether limits of other parameters have been prescribed by it.

2. Para 2.4.1 The Pioneer Industries does not discharge into drain/ river. So, inclusion of following sentence in this para may be re-looked-

2.4.1 PSIEC Industrial Growth Centre has laid sewer and outfall of sewer into Nalwa Drain leading to River Chakki ultimately merging into River Beas.

3. Table no. 1 is at page no. 6 (para 2.2). So, the table nos. at para 4.3 are to be re-numbered.

4. In table (in the draft numbered as Table 2 - GPS Location Details of Samples collected during October 07-08, 2018)

S. No. 32 is appearing after s. no. 22. May please be corrected.

5. Annexure numbers VIII and IX are there in para 3.2. Annexure numbers VIII and IX are re-appearing at para 5.1. These Annexures and subsequent Annexures are to be re-numbered. Their references in the main text are also to be corrected accordingly.

Regards,

(Niraj Mathur)

SEE RPCB

203

Subject: **Finalized Interim Report of the Monitoring Committee for filing in Hon'ble NGT**

Date: 10/28/18 03:50 AM

From: J Chandra Babu <jcb.cpcb@nic.in>

To: seezo2ldhppcb@yahoo.com, santseechewalji@gmail.com,
nirjrpcb@gmail.com, amardeep.dhaliwal.mcj@gmail.com

Cc: asudhakar.cpcb@nic.in,
Chandra Babu Jathikartha <jcb.cpcb@nic.in>

Interim Report of the Monitoring Committee Constit... (19.3MB)

Dear Sir

Pl. find enclosed finalized interim report of the committee for favour of information and comments if any may please be sent to the undersigned by return e.mail by 12 Noon on 28.10.2018, to enable to take further action by the undersigned.

Regards

(J.Chandra Babu)

Scientist 'D', WQM-I Division and Nodal Officer

Central Pollution Control Board

Parivesh Bhawan, E.Arjun Nagar

DELHI-110 032

M:9868278903

LL:011-43102322

Subject: **Re: Finalized Interim Report of the Monitoring Committee for filing in Hon'ble NGT**

To: J Chandra Babu <jcb.cpcb@nic.in>

Cc: "SEE, ZO-2, Ludhiana" <seezo2ldhppcb@yahoo.com>,
Sant Balbir Singh Seechewal <santseechewalji@gmail.com>,
nirjrpcb@gmail.com, asudhakar.cpcb@nic.in

Date: 10/28/18 01:30 PM

From: Amardeep Dhaliwal <amardeep.dhaliwal.mcj@gmail.com>

Interim Report of the Monitoring Committee Constit... (19.3MB)

Return with small amendment. Rest is OK.

Thanks

On Sun, Oct 28, 2018 at 3:52 AM J Chandra Babu <jcb.cpcb@nic.in> wrote:

Dear Sir

Pl. find enclosed finalized interim report of the committee for favour of information and comments if any may please be sent to the undersigned by return e.mail by 12 Noon on 28.10.2018, to enable to take further action by the undersigned.

Regards

(J.Chandra Babu)

Scientist 'D', WQM-I Division and Nodal Officer
Central Pollution Control Board
Parivesh Bhawan, E.Arjun Nagar
DELHI-110 032
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Er. A.S Dhaliwal
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amardeep.dhaliwal@rediffmail.com (E)

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Subject: **Re: Finalized Interim Report of the Monitoring Committee for filing in Hon'ble NGT**

Date: 10/28/18 04:16 PM
From: seezo2ldhppcb@yahoo.com

To: J Chandra Babu <jcb.cpcb@nic.in>

205

Sir,

Minor correction in 5.3.3 para that is :

The CETP Operator informed that there are 1615 members providing their trade effluent to the CETP. About 45 KLD of trade effluent from 150-200 industries is being lifted daily. 80% of the trade effluent received and treated goes to the adjoining dyeing industry. Vehicle used by the CETP for collection of industrial effluent from member industries is fitted with GPS.

In place of 45KLD it should be 450KLD

On Oct 28, 2018 03:49, J Chandra Babu <jcb.cpcb@nic.in> wrote:

Dear Sir

Pl. find enclosed finalized interim report of the committee for favour of information and comments if any may please be sent to the undersigned by return e.mail by 12 Noon on 28.10.2018, to enable to take further action by the undersigned.

Regards

(J.Chandra Babu)

Scientist 'D', WQM-I Division and Nodal Officer

Central Pollution Control Board

Parivesh Bhawan, E.Arjun Nagar

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