Speed Post

B-190188/CETP-Site-II, Unnao/PIAS/WQM-II/CPCB/2018-19/ **Date: 20/11/2018**

12966-979

To,

All 14 operational member tannery units of CETP, Unnao
(as per list Enclosed)
UPSIDC, Site-II
Unnao (UP)

Direction under Section 5 of the Environment (Protection) Act, 1986

Whereas, the Ministry of Environment & Forests, Govt. of India, vide notification S.O.157 (E) of 27.02.1996 has delegated powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, CPCB, to issue direction to any industry, Municipal Corporation, Municipal Council, Cantonment Board or to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules, 1986; and

Whereas, the Central Government has notified the standards for discharge of environmental pollutants from various categories of industries, Common Effluent Treatment Plants (CETP) and Sewage Treatment Plants (STP) under the Environment (Protection) Act,1986 and the rules framed there under; and

Whereas, amongst others, under Section 17 of the Water (Prevention and Control of Pollution) Act, 1974, one of the functions of the State Pollution Control Boards (SPCBs)/Pollution Control Committees, constituted under the Water (Prevention and Control of Pollution) Act, 1974, is to plan a comprehensive programme for the prevention, control and abatement of pollution of stream and wells in the State/UT and to secure the execution thereof; and

Whereas, CETP at UPSIDC, Site-II, Unnao needed upgradation as the CETP was not able to comply with all parameter of the stipulated norms; and

Whereas, despite lapse of considerable time, the state of non-compliance of standards by the CETP at UPSIDC, Site-II, Unnao is continued unabated, no firm action has been taken for upgradation of CETP by either occupier of CETP or member units and it has become necessary to take action against the CETP member industries; and

Whereas, CETP, UPSIDC, Site-II, Unnao (Design Capacity 2.35 MLD) was inspected by official of CPCB on 08/05/2018 and found **non-complying** w.r.t. stipulated discharge standards **pH, TSS, BOD, COD, Chloride, Sulphate, Sulphide and Ammonical Nitrogen.** CETP was operational on the day of inspection. Effluent receiving at CETP inlet is also not meeting the desired inlet quality indicating that PETP and Chrome Recovery Unit (CRU) installed by the member units are not adequate and functioning properly to achieve desired PETP treated effluent quality standards; and

Whereas, non-compliance of standards by CETP is collective non-compliance by CETP member industries, and therefore action has to be taken against CETP member industries; and

Whereas, CPCB issued Show Cause Notice under section 5 of Environment Protection Act, 1986 dated 07/08/2018 **to all operational member units of CETP, UPSIDC, Site-II, Unnao (UP),** why should not be closed down until all necessary pollution control measures are planned and implemented including setting up of individual full-fledged ETP comprising to primary, secondary, biological and tertiary treatment system to provide requisite treatment to effluent, so as to comply with the prescribed effluent discharge standards notified under Environment (Protection) Act, 1986 to the satisfaction of CPCB and also why appropriate environmental compensation not be imposed; and

Whereas, a meeting was held on 25/09/2018 at CPCB, Delhi with officials of UPPCB, operator and member units of CETP, UPSIDC, Site-II, Unnao wherein it was agreed that there is a need to augment/upgrade PETPs & CRUs and to take necessary pollution control measures to ensure compliance of norms and finalized the action points for implementation by November 30, 2018; and

Now, Therefore, based on above observations and in exercise of powers delegated to Chairman CPCB under Section 5 of the Environment (Protection) Act, 1986 M/s (As per List enclosed).....is directed to comply with following directions:

1. The Unit shall implement following pollution control measures by November 30, 2018.
   i. All borewells (water abstraction source) shall have electromagnetic flow meter with totalizer installed.
   ii. To ensure independent/segregated conveyance system for chrome bearing effluent comprising of closed pipeline with appropriate covered facility for storage of recovered chrome and exhaust chrome liquor.
   iii. To have only single discharge point for effluent having electro-magnetic flow meter and maintain log books.
   iv. To adopt physical/mechanical de-salting of hides/skins to be adopted as a practice for cleaner technology. Salt shaker and drum shall be used to control TDS.
   v. To maintain log Book for basic raw material i.e. hides/skins and chemicals consumed in the process.
   vi. To install bar screens of different openings (bars clear spacing) at the inlet of the PETP system to trap the solid waste and prevent them from going into the PETP system.
   vii. Retention time of equalization tank shall be minimum 24 hours. The chemicals dosing shall be done in separate tanks for Lime and Alum, with proper mixing arrangement.
   viii. Primary Settling tank (PST) shall have SOR of 1.0 $m^3/m^2/hr$ (maximum), Retention time 4-5 hours and Flow rate to be controlled in accordance with the SOR. Tube settler or Lamella settler may be installed in addition to existing PST to improve settling area if required.
   ix. To install mechanical sludge de-watering system such as Filter Press for speeding up the drying process and quick disposal of the solid waste.
   x. To engage trained personnel for the operation & maintenance of PETP & CRU and submit the list of operator & workmen indicating the names & educational qualification to CPCB. The training of the operators may be carried out under some expert in this field.
   xi. To introduce and adopt cleaner technologies in their unit.

2. Inventory of the functional units & electro-mechanical equipment forming part of the PETP of individual units shall be provided to the CPCB by November 30, 2018. Format for providing information is in annexure 1.
3. Self-certified Infrastructure details for mechanical desalting system, soaking pits/paddles and Drums to confirm that infrastructure installed is in accordance to the licensed/ installed capacity shall be submitted to CPCB.
4. Unit shall engage technical institutes for obtaining capacity assessment report of the Drums installed at their premises, in respect of number, types, drum size, production capacity,

operating time and number of hides can be processed and submit the report to CPCB by November 30, 2018.

5. Adequacy report of PETP & CRU shall be carried out from technical institutes like CLRI, IITs etc. by November 30, 2018 and necessary improvement shall be implemented by November 30, 2018.
6. The adequacy assessment of CETP Site-II, Unnao shall be provided to CPCB by November 30, 2018.
7. The adequacy assessment of PETP and CETP shall specially focus on assessment of Primary and secondary sludge generation and capacity of sludge dewatering/ drying.
8. Unit shall submit monthly returns of Hazardous waste disposal to the secure land fill facility to CPCB by 10th of every month.
9. Daily reading of the electromagnetic flow meter at discharge point of member units be collected by the CETP operator and thereafter a consolidated monthly data shall be sent to the CPCB by 10th of every month.
10. Environment Management Cell (EMC) should be constituted for Site-II, Unnao cluster having at least two technical experts as member (eg. member from Technical institutes), one member from Uttar Pradesh Pollution Control Board, besides other members. The EMC may conduct meetings fortnightly to discuss on the environmental issues and minutes of EMC meetings shall to be forwarded to CPCB.
11. Basic testing facility for effluent quality norms shall be created at the CETP, which will be availed by the member units of the CETP. Daily analysis of PETP and CETP effluent quality shall be by carried out & log book shall also be maintained.
12. Quarterly cleaning of CETP conveyance system shall be ensured.
13. Individual action plan shall be developed and submitted by each Tannery by November 30, 2018 on the adoption of cleaner Technologies so as to meet all standards/ requirement of effluent discharge. Tanneries shall implement the plan by November 30, 2018. The action plan should be specific and clear covering process against the value chain, targeted effluent and possible intervention: (Indicative table)

Process	Targeted effluent	Intervention/ best practice
Before Soaking/ Salt Dusting		
After Soaking		
Liming Flashing		
Deliming		
Pickling		
Tanning		

The Unit shall acknowledge the receipt of these directions within 10 days and submit the action taken within the time line proposed from the date of issue of these directions. In case of default in compliance with the above directions by you, CPCB will be constrained to initiate appropriate action against you, in accordance with the provisions of the Environmental (Protection) Act, 1986.

(S. P. Singh Parihar)
CHAIRMAN

Copy to:

1. **Chairperson,**
   U. P. Pollution Control Board
   Building No. TC-12V, VibhutiKhand,
   Gomti Nagar, Lucknow-226 010
   : For kind information please.

2. **Director General,**
   National Mission for Clean Ganga (MoWR, RD & GR)
   1st Floor, Major Dhyan Chand National Stadium
   India Gate, New Delhi – 110002
   : For kind information please.

3. **Joint Secretary (CP-Division),**
   Ministry of Environment Forests & CC
   Indira Paryavaran Bhawan, Jor Bagh Road,
   New Delhi-110 003
   : For kind information please.

4. **Regional Director**
   Regional Directorate-North
   Central Pollution Control Board, PICUP Bhawan,
   Vibhuti Khand, Gomti Nagar, Lucknow (UP)
   : For follow up.

5. **M/s Site-II, Unnao Industrial Pollution Control Company**
   UPSIDC Leather Technology Park ,
   Site-II, Unnao, Unnao (UP)
   : For implementation of action point.

6. **In-charge, IT Division, CPCB**
   : For uploading on CPCB website.

7. **Guard File, WQM - II Division, CPCB**

(Prashant Gargava)
MEMBER SECRETARY

Sl. No.	Operational member tannery units of CETP-Site-II, Unnao
1.	Superhouse leathers ltd Sole Division (Unit-3), B-16,17, Industrial Area Site-II, Dist. Unnao, UP
2.	Superhouse leathers ltd Goat Division (Unit-2), B-15, Industrial Area Site-II, Dist. Unnao, UP
3.	Kings International ltd., D-13, C-19, Site-II, UPSIDC, Industrial Area, Dist. Unnao, UP
4.	Sultan Tanneries &Leather Products Pvt. Ltd., D-16, Site-II, Industrial Area, UPSIDC, Dist. Unnao, UP
5.	Crescent Tanners Pvt.Ltd. Unit-II, D-17, Site-II, Industrial Area, Dist. Unnao, UP
6.	Leder fabric, D-16, Industrial Area, Site-II, Dist. Unnao, UP
7.	GBS Tanners Pvt. ltd., B-6, Site-II, Industrial Area, Dist. Unnao, UP
8.	Iqbal Leathers Ltd., C-2, Site-II, Industrial Area, Dist. Unnao, UP
9.	Superhouse L. Ltd. Chrome Division, A-1 C-1, Site-II, Industrial Area, Dist. Unnao, UP
10.	Model Tanners (india) Pvt. Ltd., A-7/1 & 8/3, UPSIDC, Industrial Area, Site-II, Dist. Unnao, UP
11.	Calico Trends, 17, Leather Complex, Site-II, Dist. Unnao,UP
12.	Crescent Tanners Pvt. Ltd. (Unit-I) 16, Leather Complex, Site-II, Dist. Unnao, UP
13.	Sultan Tanners, Plot/shed no.18, Leather Complex, Site-II, Dist. Unnao, UP
14.	Calico Trends, Shed/Plot no.15 Leather Complex (In place of Cosmos Tannery), Industrial Area, Site-II, Dist. Unnao, UP

Annexure - 1

INVENTORY FORMAT FOR TANNERY

1	Name and Address of Tannery And, Tannery Code as per List			
2	Member for the SPV for CETP	Yes / No		
3	Name of the Contact person a. Contact number b. E-mail ID			
5	Operational Status of the unit If closed, (closed by own or by CPCB/ SPCB) also , date of closure	(operational/closed)		
6	Operation Schedule (hours/ shift and Shift/ day)			
7	Consented capacity (Hides/ day)			
8	Type of process (Multiple response possible)	Raw to Finished leather (Chrome tanning) Raw to Finished leather (Vegetable tanning) Raw to Wet Blue (Chrome tanning) Raw to Wet Blue (Vegetable tanning) Wet Blue to Finished leather (Vegetable tanning) Wet Blue to Finished leather (Chrome tanning) Split to Finished leather Others (Specify)		
9	Raw material used	**Type of Hide**	**No. of hides/ day**	**Approximate total weight of hides (kg.)**
		Cow		
		Buffalo		
		Goat/Sheep Skin		
		Calf Hide		
		Mudella		
		Split		
		Others (specify)		
10	Installed Production capacity (kg/ day) including by-products	Semi-finished/ Finished/ Other (Specify) Total		
11	Actual production (Kg/day)	Semi-Finished - Finished- Other (specify)- Total		
12	Valid Consent orders to operate: ➢ Under Water Act, 1974 & ➢ Under Air Act, 1981 (copy to be enclosed)	Valid up to ..... Valid up to		
	If valid consent not available, Submission of renewal application & validity of expired consent	Consent expired on..... and renewal application submitted on		

13	DETAILS OF PROCESS MACHINES						
	Make (Indigenous/ Imported)	Type (Manual/ Automated)	No.	Size	Unit operations performed in each	Running Schedule (hr/day)	Number of operational days in a year
Drums							
Pits/ Paddles							

14	WASTE AND WASTEWATER MANAGEMENT	
i.	Mechanical desalting of all hides processed	Yes / No
ii.	Segregation & evaporation of soaking effluent	Yes / No
iii.	Re-use of salt recovered from mechanical desalting/ evaporation	Yes / No
iv.	Segregation, treatment & reuse of pickling effluent	Yes / No
v.	Re-use of treated chroming/ re-chroming effluent	Yes / No
vi.	Re-use of chrome recovered from chrome recovery Plant (CRP)	Yes / No
vii.	Salt-free chilled hides/ skins procurement and chilled storage	Yes / No

15	EFFLUENT TREATMENT (PETP/ ETP)	
i.	Type of operation	Batch/ Continuous
ii.	Operation hours per day	
iii.	Primary-treatment if any (Oil and Grease trap, pre-settling tank)	
iv.	PETP/ ETP capacity (KLD)	
v.	Flow meter installed at inlet/ outlet of PETP/ETP	Yes / No
vi.	OCEMS Connectivity with CPCB/ UPPCB portal (enclosed picture)	Yes/ No
vii.	Monthly reporting of flow meter data to UPPCB	Yes/ No
viii.	Adequacy assessment through IITs/ NEERI/ CLRI	Yes/ No
Components/ unit		
ix.	<u>Screens</u> Type (Manual/ Mechanical): Numbers and Location of each:	
x.	<u>Holding Tank and/or Equalization Tank</u> Retention time (Hours): Mixing Arrangement (Air/ Mixer/ Both):	
xi.	<u>Chemicals Dosing Tanks</u> Dosing system (manual/ pump): No. & size of Chemical Solution tanks:	
xii.	Mixing/Reaction Tank/ Flocculation tank (Flash Mixing Tank)	
xiii.	<u>Primary Settling Tank</u> Plain settler/ Tube settler/ lamella settler: Retention time (in hours):	

xiv.	Sludge Drying Beds Numbers: Size: Drying Period (days): Quantity of Sludge (Kg/day): Dried sludge Disposal method:	
xv.	Mechanical Sludge dewatering system (Filter press / Centrifuge / belt press) If Filter Press, give details - Nos. of plates and Plate size	
xvi.	Carbon filters Diameter & Height: Cleaning frequency:	
xvii.	Sand Filters Diameter & Height: Cleaning frequency:	
xviii.	RO Plant Capacity (KL/hr): Stages:	
In case of Stand alone tannery, the following information shall be furnished		
xix.	Aeration Tank Capacity: Type & total power of aeration system: MLSS concentration normally maintained (mg/l):	
xx.	Secondary Clarifier Capacity: Retention time (hours): Overflow rate ($m^3/m^2.hr$):	

16	**CHROME LIQUOR MANAGEMENT**		
i.	Where do you dispose the Chrome Liquor?	Separate Drain Combined Drain	
	Whether a member of existing Common CRP	Yes/ No	
ii.	Whether separate drain exist for collection of chrome bearing effluent	Yes/ No	
iii.	Do you have a Chrome Recovery Plant Installed?	Yes/ No	
	If yes, capacity (KL/ day)		
iv.	Method of discharge of chrome liquor Collected by Tanker/ Sent in to In-house CRP/ Sent to CETP CRP/ All of the above		
v.	Quantity (KL/ day)		
vi.	Chrome bearing Effluent Quantity through CRP (KLD)		
vii.	Type of operation	Batch/ Continuous	
viii.	Claimed/ Actual performance efficiency		

	Component / unit of CRP	Nos.	Size (internal) in Meters		
			Length	Width	Water Depth
ix.	Holding Tank/Equalization Tank				
	Retention time (Hours): Air mixing Arrangement:				
x.	Chemicals Dosing Tanks				
	Dosing system (manual/ pump): No. & size of Chemical Solution tanks:				
xi.	Mixing/Reaction Tank				
	Mixing Arrangement (Air/Mixer/Both)				
xii.	Settling Tank				
	Retention time (Hrs)				
xiii.	Mode of disposal of effluent and way to reach Ganga				

17	**DETAILS ON HAZARDOUS WASTES AND OTHER SOLID WASTE GENERATION**		
i.	**Type of Wastes (Kg/ Month)**	**Quantity generated**	**Storage & Disposal**
	Chrome bearing residues		
	Chemical sludge from ETP/ PETP		
	Fleshing		
	Others (specify)		
	Total **(Kg/Month)**		
ii.	**Status of validity of hazardous waste authorization**		
		Validity	Manifesto	Compliance Yes/ No & comments
	Yes/ No or applied (copy to be enclosed)	a		
iii.	**Method of disposal of Sludge (Multiple response possible)**		
		Yes	No
	Sent to landfill site		
	Reuse in horticulture		
	Sent to fertilizer manufacturer		
	Others (please specify)		

18	**STATUS OF LOG BOOKS MAINTENANCE**	
	Yes	No
Fresh Water supply / Extraction		
ETP / PETP Discharge		
Chrome Recovery Plant		
ETP / PETP Sludge		
Hazardous and other Solid wastes		

19. Action plan for improvement in PETP (Specific points to be mentioned by the industry):