

Government Notice No. 2 of 2020

THE WASTE WATER MANAGEMENT AUTHORITY ACT

**Regulations made by the Minister under section 47 of
the Waste Water Management Authority Act**

1. These regulations may be cited as the Waste Water (Licence for Discharge of Industrial Effluent into a Waste Water System) Regulations 2019.

2. In these regulations –

“composite sample” means a combination of individual discrete samples collected at regular intervals over a designated period of time. Composite samples are obtained by using continuous, constant sample pumping or by mixing equal sample volumes collected at regular time intervals;

“grab sample” means a single or individual sample collected at a specific spot over a short period of time which represents a snapshot in both space and time of a sampling site;

“licence” means a licence issued under regulation 3;

“licensee” means the holder of a licence;

“pollutant” means any matter, whether in solid, liquid or gaseous state, that alters the quality of water with which the matter gets into contact and includes any substance from which a pollutant is derived.

3. (1) No person shall discharge or cause to be discharged industrial effluent into a waste water system, either through a sewer connection or by carting away through waste water carriers to an approved waste water disposal station, unless he holds a licence to discharge industrial effluent into a waste water system.

(2) An application for a licence referred to in paragraph (1) shall be made to the Authority in the form set out in the First Schedule.

(3) (a) The applicant shall provide such information as the Authority may require in relation to the application.

(b) The Authority may grant or refuse the application.

(c) The application shall be assessed within a period of 30 working days and where the Authority refuses an application, it shall, within 5 working days of the decision, inform the applicant in writing.

(4) (a) The Authority may, subject to such conditions as it may determine, and on payment of a fee of 10,000 rupees, issue a licence in the form set out in the Sixth Schedule.

(b) The licence issued under subparagraph (a) shall be valid for one year and may be renewed on payment of an annual fee of 7,500 rupees.

(5) An application for the renewal of a licence shall be made in the form set out in the First Schedule.

(6) An application for the renewal of a licence made after the date of the expiry of the licence shall be subject to a surcharge of 10 per cent of the renewal fee.

(7) (a) Where a licence is lost, damaged, defaced or destroyed, a person shall, as soon as possible, report such loss, damage or destruction to the Authority and apply for the issue of a duplicate licence.

(b) The duplicate licence under paragraph (a) shall be subject to payment of a fee of 3,000 rupees.

(8) Where the Authority has reason to believe that the licensee has failed to comply with a condition of his licence, the Authority may revoke the licence, after having given the licensee an opportunity to show cause in writing within a period of 30 working days why his licence should not be revoked.

4. (1) (a) Any effluent flow measuring device used by the licensee shall be approved by the Authority on submission of a valid certificate from an authorised institution and the licensee shall ensure regular calibration and maintenance of that device on a twice-yearly basis.

(b) The licensee shall produce, on demand, any documentary evidence certifying that the device is calibrated.

(2) A licensee shall –

(a) record the daily volume of water consumed and the daily flow of industrial effluent discharged into a waste water system or the volume of industrial effluent carted away at a registered waste water disposal station; and

(b) submit to the Authority a monthly report on the daily consumption of water and the volume of industrial effluent discharged or carted away.

5. (1) A licensee shall –

(a) take composite sample of industrial effluent;

(b) analyse the composite sample of industrial effluent for the purpose of determining the level of pollutants specified in the Third Schedule; and

(c) submit the result of the analysis to the Authority at the frequency specified in the Second Schedule.

(2) Any activity not classified under the Third Schedule shall be classified under a new category named as “**other activity**” and the parameters to be analysed shall be prescribed by the Authority.

(3) Any composite sample of industrial effluent shall be collected at an hourly interval over such continuous time as the Authority may determine on the basis of an average production and water used.

(4) Any device used by the licensee to take composite sample shall be approved by the Authority.

(5) Where the industrial effluent generated from the activities of a licensee is discharged on an intermittent basis, the Authority may allow for collection of grab samples at such intervals as the Authority may determine.

(6) Any cost incurred in relation to the collection and analysis of the sample of industrial effluent shall be at the expense of the licensee.

6. (1) The permissible limit of pollutant to be discharged as industrial effluent into a waste water system shall be as specified in the Fourth Schedule.

(2) A licensee shall install such pre-treatment system as the Authority may approve to ensure that any discharge of industrial effluent complies with the permissible limit of pollutant specified in the Fourth Schedule.

(3) Where an industrial effluent discharged into a waste water system contains pollutant with concentration or load exceeding the permissible limit specified in the Fourth Schedule, the licensee shall

pay a penalty as specified in the Fifth Schedule in respect of each pollutant.

7. Where a licensee fails to submit the monthly report specified in regulation 4(2) and a result of analysis as specified in regulation 5(1) (c), the Authority shall determine the maximum water consumption as specified in the First Schedule and the maximum concentration level of pollutant on the basis of any past record or typical values reported for similar type of activity and shall apply for the reported calculation of the penalty.

8. (1) The licensee shall forthwith notify the Authority of any accident or spill resulting in an increase in the concentration or load of pollutants contained in the industrial effluent.

(2) The licensee shall take immediate corrective action to lower the level of pollutant in order to comply with the permissible limit specified in the Fourth Schedule.

(3) The Authority may instruct the licensee to take such corrective action as may be necessary and the licensee shall comply with the instructions.

(4) Any cost incurred in relation to any instruction given pursuant to paragraph (3) shall be borne by the licensee.

9. The Authority shall, at any time, have access to the licensee's premises for the purpose of –

- (a) inspecting and maintaining any public waste water network;
- (b) inspecting and verifying any meter and sampling device used;
- (c) collecting samples for the purpose of analysing industrial effluent discharged; and

- (d) collecting samples from the waste water carrier for the purpose of analysing industrial effluent being carted away.

10. Any person who –

- (a) unlawfully discharges industrial effluent into a waste water system without a valid licence;
- (b) fails to comply with any of the conditions of the licence,

shall commit an offence and shall, on conviction, be liable to a fine not exceeding 25,000 rupees and to imprisonment for a term not exceeding 12 months.

11. The Waste Water (Standards for Discharge of Industrial Effluent into a Waste Water System) Regulations 2004 are revoked.

12. Notwithstanding these regulations, any licence issued under the Waste Water (Standards for Discharge of Industrial Effluent into a Waste Water System) Regulations 2004 shall, on the coming into operation of these regulations, remain valid until the date of expiry of the licence.

13. These regulations shall come into operation on 1 January 2020.

Made by the Minister on 27 December 2019.

FIRST SCHEDULE

[Regulation 3]

**APPLICATION FOR/RENEWAL OF A LICENCE TO
DISCHARGE INDUSTRIAL EFFLUENT INTO A
WASTE WATER SYSTEM**

Description of the industry

Name of the industry

Location of industry

Postal address

Approximate number of employees

Brief description of the production process and product(s)

.....

.....

Total production per year

**Authorised person in the organisation responsible for water
supply and effluent disposal**

Name

Position

Address

Phone number

Fax number

Email address

Water source (e.g. CWA, private boreholes, etc) and description of metering device (annex description where necessary)

.....
.....

Water consumption of the industry

Average daily water consumption (m³)

Maximum daily water consumption (m³)

Location of effluent discharge point(s)

.....
.....
.....

Volume of effluent to be discharged

Average daily discharge (m³)

Maximum daily discharge (m³)

Maximum instantaneous discharge (m³/sec)

Frequency of carting away (where applicable)

.....
.....

(specify daily, weekly, monthly)

Description of existing effluent meters

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.....
.....

(annex description where necessary)

Location of sampling point(s) and description of existing effluent
sampling devices

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.....

(annex description and location map if necessary)

Characteristics and quality of the effluent to be discharged

.....
.....

(annex analysis certificate where appropriate)

*1. I/we request for a new licence for discharge of industrial effluent
in accordance with the particulars given.

*2. I/we request for the renewal of the licence for discharge of
industrial effluent in accordance with the particulars given.

.....
Name of applicant

.....
Signature of applicant

.....
Position

.....
Date

**Delete as appropriate.*

SECOND SCHEDULE

[Regulation 5(1)(c)]

**PART I – SUBMISSION FREQUENCY OF
EFFLUENT ANALYSIS BY INDUSTRY**

*Total daily COD load (kg)	Submission frequency	
	Direct discharge	Carting away by waste water carriers
Less than 300	Quarterly	(1) Quarterly (for daily/weekly/monthly/quarterly carting away) (2) For carting away at lower frequency the licensee shall submit an effluent analysis for approval prior to discharge at the Waste Water Disposal Station
Greater than 300	Monthly	(1) Monthly (for daily/weekly/monthly carting away) (2) For carting away at lower frequency the licensee shall submit an effluent analysis for approval prior to discharge at the Waste Water Disposal Station

** The Total Daily COD Load (kg) shall be, at the time of application, determined by the Authority in accordance with regulation 4(2), 9(c) and 9(d) for the purpose of obtaining the submission frequency. Same shall remain in force during the validity period of the Licence.*

**PART II – MONITORING FREQUENCY BY INDUSTRY FOR
EFFLUENT CONTAINING TOXIC COMPOUNDS OR OTHER
PROHIBITED POLLUTANTS**

Parameter	Monitoring frequency in days
Heavy metals	30
Phenols	30
Pesticides	30
Cyanide	30
Total organic halides	30

THIRD SCHEDULE

[Regulation 5(1)(b)]

**LIST OF POLLUTANT IN RESPECT OF
EACH INDUSTRIAL ACTIVITY****1. Textile activities**

- (1) Dye house (using raw materials of cotton and wool)

Temperature, colour, oil and grease, pH, zinc, chromium, nickel, cobalt, electrical conductivity, COD, sulphate, chloride, sodium, total suspended solids, total organic halides and total phosphorus

- (2) Dye house (other materials)

Temperature, colour, oil and grease, pH, zinc, chromium, nickel, cobalt, electrical conductivity, COD, sulphate, sulphide, chloride, sodium, total suspended solids, total organic halides and total phosphorus

- (3) Washing plant

Temperature, COD, TKN, pH, total suspended solids, settleable solids, total organic halides, total phosphorus and sodium

- (4) Printing

Temperature, COD, pH, oil and grease, electrical conductivity, total suspended solids, chloride, sulphate, sodium, total phosphorus, chromium, cobalt, nickel and zinc

2. Metal plating and/or galvanising plant

Temperature, COD, lead, chromium, zinc, cyanide, iron, nickel, pH, total suspended solids, electrical conductivity, total organic halides and total phosphorus

3. Slaughterhouse

Temperature, COD, TKN, pH, oil and grease, total suspended solids, settleable solids and total phosphorus

4. Fish processing

Temperature, COD, TKN, pH, oil and grease, total suspended solids, settleable solids, electrical conductivity and total phosphorus

5. Meat processing

Temperature, COD, TKN, pH, oil and grease, total suspended solids, settleable solids, sodium and total phosphorus

6. Vegetable and/or fruit processing

Temperature, COD, TKN, pH, oil and grease, total suspended solids, settleable solids, sodium and total phosphorus

7. Bottling plant

Temperature, COD, TKN, pH, oil and grease, total suspended solids, settleable solids, sodium and total phosphorus

8. Brewery and/or distillery

Temperature, COD, TKN, pH, oil and grease, total suspended solids, settleable solids, sodium and total phosphorus

9. Soap and/or detergent manufacturer

Temperature, COD, TKN, pH, oil and grease, total suspended solids, settleable solids, sodium, total organic halides and total phosphorus

10. Chemical conditioning plant

Temperature, COD, TKN, phosphorus, solvents, pH, total suspended solids, total pesticides, lead, zinc, chromium, nickel, manganese, settleable solids, electrical conductivity, phenols, total organic halides and total phosphorus

11. Mechanical workshop

COD, TKN, pH, total suspended solids, lead, zinc, chromium, cadmium, nickel, manganese, mercury, total organic halides and total phosphorus

12. Processing and/or manufacturing of paint

Temperature, colour, COD, TKN, solvents, pH, total suspended solids, lead, zinc, chromium, cadmium, nickel, manganese, mercury, total organic halides and total phosphorus

13. Dairy processing

Temperature, COD, TKN, pH, total suspended solids, settleable solids, oil and grease, sodium and total phosphorus

14. Edible oil refinery and/or manufacturer of edible oil product

Temperature, COD, TKN, pH, total suspended solids, settleable solids, oil and grease and total phosphorus

15. Laundry and/or dry cleaner

Temperature, COD, TKN, pH, total suspended solids, settleable solids, total organic halides, total phosphorus and sodium

16. Tannery

Temperature, colour, pH, oil and grease, zinc, chromium, nickel, cobalt, mercury, electrical conductivity, COD, sulphate, sulphide, chloride, sodium, total suspended solids, total organic halides and total phosphorus

17. Pharmaceutical industry

Temperature, oil and grease, pH, electrical conductivity, COD, sulphide, phenols, total suspended solids and total phosphorus

18. Printing

Temperature, pH, oil and grease, electrical conductivity, total suspended solids, COD, chloride, sulphate, sodium, total phosphorus, chromium, cobalt, nickel and zinc

19. Other activity

The list of parameters to be analysed shall be prescribed by the Authority.

Note –

“COD” means Chemical Oxygen Demand;

“TKN” means Total Kjeldahl Nitrogen.

FOURTH SCHEDULE

[Regulations 6 and 8]

**PERMISSIBLE LIMITS OF POLLUTANTS TO BE DISCHARGED
AS INDUSTRIAL EFFLUENT INTO A WASTE WATER SYSTEM**

Parameter	Unit	Maximum permissible concentration
(1) Heavy metals		
Arsenic	mg/l	1
Boron	mg/l	5
Cadmium	mg/l	0.05
Chromium (total)	mg/l	1
Cobalt	mg/l	0.5
Copper	mg/l	2
Iron	mg/l	5
Lead	mg/l	1
Manganese	mg/l	2
Mercury	mg/l	0.1
Nickel	mg/l	2
Zinc	mg/l	2

(2) Miscellaneous parameters

Chemical oxygen demand	mg/l	1,500
Chloride (as Cl ⁻) and sulphate (as SO ₄ ²⁻), combined	mg/l	1,500
Electrical conductivity	μS/cm	3,500
Oil and grease	mg/l	150
pH	range	5 – 9
Phenols (as phenol)	mg/l	5
Settleable solids	ml/l	10
Sodium as Na or (SAR)	mg/l	300 (10)
Sulphides (as S ²⁻)	mg/l	1
Temperature	degrees Celsius	Less than 40
Total dissolved solids	mg/l	2,000
Total kjeldahl nitrogen	mg/l	80
Total organic halides	mg/l	1
Total phosphorus	mg/l	50
Total suspended solids	mg/l	400

Note –

“Na” means sodium, Ca - calcium, Mg - magnesium;

“SAR” means Sodium Adsorption Ratio: $\text{Na} / [1/2 (\text{Ca} + \text{Mg})]^{1/2}$.

Special limitations

1. No radioactive wastes or isotopes
 2. No cyanides or related compounds capable of liberating HCN gas or cyanogens
 3. No degreasing solvents, petroleum spirit, volatile flammable solvents or any substance that yields a flammable vapour at ambient temperature
 4. No hydrocarbons or derivatives of hydrocarbons
 5. No pesticides or insecticides
 6. Notwithstanding the above specified permissible limits, the total concentration of heavy metals and metalloids shall not exceed 10 mg/l at any time
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FIFTH SCHEDULE
[Regulation 6(3)]

PARAMETER	PERMISSIBLE LIMITS, mg/l	PENALTY (Rs per kilogramme)
Arsenic	1	9,000
Boron	5	9,000
Cadmium	0.05	9,000
Chemical Oxygen Demand (COD)	1,500	60
Chromium (total)	1	9,000
Cobalt	0.5	9,000
Copper	2	9,000
Iron	5	9,000
Lead	1	9,000
Manganese	2	9,000
Mercury	0.1	9,000
Nickel	2	9,000
Oil and grease	150	60
Sodium	300	60
Total kjeldhal nitrogen (TKN)	80	60
Total phosphorous	50	60
Total organic halides	1	9,000
Total suspended solids (TSS)	400	60
Zinc	2	9,000

Note –

Penalty payable by the licensee for the discharge of any pollutant with concentrations in excess of the permissible limit as specified in the Fourth Schedule quoted in the second column is calculated as the amount of the excess pollutant discharged per month times the penalty in Rs/kg provided in the third column.

SIXTH SCHEDULE

[Regulation 3(4)]



Wastewater Management Authority

Licence to discharge industrial effluent

(Issued in accordance with Regulations made under the Waste Water Management Authority Act)

This is to certify that of
is hereby authorised to discharge industrial effluent into the waste water system

Validity period From to

This licence is subject to the terms and conditions attached

.....

General Manager

.....

Date

This licence shall be affixed at a conspicuous place at the site of the industry at any time for the purpose of checking

TERMS AND CONDITIONS

**Licence to Discharge Industrial Effluent
Into the Waste Water System**

(Issued under the Waste Water (Licence for Discharge of Industrial Effluent into a Waste Water System) Regulations 2019

1. GENERAL CONDITIONS

Licence is granted to (*name of licensee*) residing at (*address of licensee*) to discharge effluent emanating from (*classification of industry as per Third Schedule*) into the public waste water system at (*direct connection to waste water system/through waste water carriers**)

**Delete as appropriate*

2. SPECIFIC CONDITIONS

(1) Discharge, sampling and test parameters

- (a) The maximum volume of effluent that may be discharged daily shall not exceed m³/day.
- (b) The maximum rate at which effluent may be discharged at any time shall not exceed m³/hour.
- (c) The method of sampling
- (d) Location of sampling points
- (e) The following effluent parameters shall be tested and submitted to this Authority
- (f) The frequency of analysis to be conducted in respect of the effluent parameters shall be

(2) Penalty

Calculation of penalty, under regulation 6(3) of these regulations is independent of payment of waste water fees payable under the Waste Water (Fees) Regulations 2001 or any subsequent modification thereof.

(3) Access and inspection by Authority

The licensee shall at all times, grant the Authority access to all liquid flow process and metering devices, production facilities, internal waste water facilities and waste water metering, sampling and monitoring facilities for the purpose of –

- (a) inspecting and checking the licensee's water and waste water network, metering and sampling devices, waste water pre-treatment facilities and disposal systems;
- (b) taking independent samples and readings for verification of water consumption and effluent volumes and/or quality. In case of an independent composite sample required by the Authority, the licensee shall make necessary arrangements for collection of composite samples at hourly intervals over a continuous time period as prescribed by the Authority.

(4) Legal requirements

- (a) The licence shall be governed by the Waste Water (Licence for Discharge of Industrial Effluent into a Waste Water System) Regulations 2019 and the Waste Water (Miscellaneous Waste Water Services) (Fees) Regulations 2012.

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- (b) The licensee shall comply with the provisions of the Waste Water (Licence for Discharge of Industrial Effluent into a Waste Water System) Regulations 2019.

(5) Licence validity

- (a) This Licence shall remain valid for a period of one year and may be renewed for further periods of one year.
- (b) Every application for renewal shall be made to the Authority at least 2 months before expiry of the licence.
- (c) The licence may be revoked in terms of the above Regulations and in the circumstances set out therein.

(6) Licence transfer

The licence shall not be transferable.

(7) Notification by licensee

- (a) The Licensee shall notify the Authority within at least one month before –
 - (i) stopping discharge of effluent to the sewer network;
 - (ii) changing its industrial activity;
 - (iii) changing its process technology for the same industrial activity;
 - (iv) increasing its water production due to increased activity.

Subparagraphs (ii) to (iv) shall be subject to the approval in writing of the Authority and subject to such conditions as the Authority may prescribe. In case of failure to obtain such approval, this licence may be revoked.

(8) Specific conditions related to your industry

(a)

(b)

(9) Effective date of licence

This license is effective on

(10) Expiry date of licence

The licence shall remain valid until

(11) Mandatory timeframe to submit application for renewal

The application for renewal shall reach the Authority not later than failing which the Authority shall not be responsible for any delay caused in the renewal.

An application for the renewal of the licence shall be made to the Authority at least months before the expiry of the licence.
