



**ANDHRA PRADESH POLLUTION CONTROL BOARD
ZONAL OFFICE: VIJAYAWADA**

Dr.B.Madhusudhana Rao, M.E.,Ph.D.,LL.B.,
Joint Chief Environmental Engineer

Plot No.41, Opp. SBH,
Sri Kanakadurga Officers Colony,
Gurunanak Road, Vijayawada-520 008
Phone: 2546218, Fax: 2546217
Email: zovja-jcee@appcb.gov.in

BY REGD. POST WITH ACK. DUE

DIRECTIONS

Order No. Kr-709/APP CB/ZO-VJA/CFO/W&A/2018- 60

Date :09.04.2018

Sub: APPCB-ZO-VJA - M/s. Hyderabad Eye Institute (Operating trust of L.V. Prasad Eye Institute), Kode Venkatadri Chowdary Campus, Tadigadapa, Vijayawada, Krishna District - discharge of effluent into rain water harvesting pit - Non-Compliance of effluent discharge standards -
Directions - Issued - Regarding.

- Ref:** 1) Hospital's CFO application received on 06.03.2018 at APPCB, Regional Office, Vijayawada.
2) RO, Vijayawada CFO verification report dated. 17.03.2018
3) CFO committee meeting held on 22.03.2018.

WHEREAS you are operating a 40 bedded hospital in the name of M/s. Hyderabad Eye Institute (Operating trust of L.V. Prasad Eye Institute) located at Kode Venkatadri Chowdary Campus, Tadigadapa, Vijayawada, Krishna District.

WHEREAS as per the Bio-Medical Waste Management Rules 2016, the effluent generated from the hospital shall be treated at the premises of occupier and before discharging the effluent into sewer should confirm the limits i.e., pH - 6.5-9.0, suspended solids - 100 mg/l, oil & grease - 10 mg/l, BOD - 30 mg/l, COD - 250 mg/l and Bio-assay test - 90% survival of fish after 96 hours in 100% effluent.

WHEREAS the Board officials inspected the hospital on 15.03.2018 and collected the samples from the out let of the hospital, and as per the analysis reports, the BOD value is 98 mg/l as against the standard of 30 mg/l, TSS-168 mg/l as against the standard of 100 mg/l, COD-320 mg/l as against the standard of 250 mg/l and it was also observed that partially treated effluent is being discharged into the rain water harvesting pit.

WHEREAS vide reference 1st cited, the consent applications submitted by the HCE for renewal was placed in the CFO committee meeting held on 22.03.2018 and the committee recommended to issue combined CFO, HWA & BMWA to the hospital with conditions up to 28.02.2023 as per the instructions of Board office vide order dated. 21.06.2016. The committee also recommended to direct the hospital to stop discharge of treated waste water into the rain water harvesting pit and to utilize the entire waste water for onland irrigation within the premises duly meeting the standards stipulated.

WHEREAS after careful consideration of all material facts of the case and in view of the External Advisory Committee recommendations, under the Powers vested with the A.P. Pollution Control Board under Section 33 (A) of the Water (Prevention & Control of Pollution) Amendment Act, 1988 for the reasons discussed above, the Board hereby issues the following directions to your hospital, in the interest of protecting public health & environment:

- ✓ 1. The hospital shall stop discharge of treated effluent into the rain water harvesting pit with immediate effect.
2. The hospital shall comply with the standards stipulated in the Bio Medical Waste Management Rules, 2016 i.e. pH - 6.5-9.0; Suspended Solids - 100 mg/ltr, Oil & Grease - 10 mg/ltr, BOD - 30 mg/ltr, COD - 250 mg/ltr and Bio-assay test 90 % survival of fish after 96 hours in 100 % effluent.

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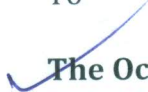
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You are directed to note that if you fail to comply with the above directions, legal action will be initiated against your hospital under Section 41(2) of the Water (Prevention & Control of Pollution) Act, 1974 & its amendments thereof without any further notice, in the interest of Public Health and Environment.

The orders will take effect from today i.e., 09.04.2018.


JOINT CHIEF ENVIRONMENTAL ENGINEER

To


**The Occupier
M/s. Hyderabad Eye Institute
(Operating trust of L.V. Prasad Eye Institute)
Kode Venkatadri Chowdary Campus
Tadigadapa, Vijayawada
Krishna District**

*Recd
on 14/4/2018*



**ANDHRA PRADESH POLLUTION CONTROL BOARD
ZONAL OFFICE: VIJAYAWADA**

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DESPATCHED
12/4/18

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WHEREAS as per the Bio-Medical Waste Management Rules 2016, the effluent generated from the hospital shall be treated at the premises of occupier and before discharging the effluent into sewer should confirm the limits i.e., pH - 6.5-9.0, suspended solids - 100 mg/l, oil & grease - 10 mg/l, BOD - 30 mg/l, COD - 250 mg/l and Bio-assay test - 90% survival of fish after 96 hours in 100% effluent.

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1. The hospital shall stop discharge of treated effluent into the rain water harvesting pit with immediate effect.
2. The hospital shall comply with the standards stipulated in the Bio Medical Waste Management Rules, 2016 i.e. pH - 6.5-9.0; Suspended Solids - 100 mg/ltr, Oil & Grease - 10 mg/ltr, BOD - 30 mg/ltr, COD - 250 mg/ltr and Bio-assay test 90 % survival of fish after 96 hours in 100 % effluent.

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0/c.


JOINT CHIEF ENVIRONMENTAL ENGINEER

To

The Occupier
M/s. Hyderabad Eye Institute
(Operating trust of L.V. Prasad Eye Institute)
Kode Venkatadri Chowdary Campus
Tadigadapa, Vijayawada
Krishna District

Copy to Environmental Engineer, A.P. Pollution Control Board, Regional Office, Vijayawada for information and shall monitor the hospital and submit the report.

Copy to Environmental Engineer-1, APPCB,ZO, Vijayawada for information and necessary action.



ANDHRA PRADESH POLLUTION CONTROL BOARD
ZONAL OFFICE: VIJAYAWADA

Dr.B.Madhusudhana Rao, M.E.,Ph.D.,LL.B.,
Joint Chief Environmental Engineer

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ORANGE CATEGORY

CONSENT, AUTHORIZATION & BMWA ORDER

Consent & Auth. No:Kr-709/APPCB/ZO-VJA/CFO/W&A/2018- Date:09.04.2018

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof, Authorisation under Rule 6 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and Authorization under Rule 10 of Bio Medical Waste Management Rules,2016 and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. Hyderabad Eye Institute
(Operating trust of L.V. Prasad Eye Institute)
Kode Venkatadri Chowdary Campus
Tadigadapa, Vijayawada
Krishna District

(Hereinafter referred to as 'the Applicant') authorizing to operate the hospital to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

(i) Outlets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge (KL/day)	Point of Disposal
1	Trade Effluents (Washings)	8.0	After treatment in the STP, the treated wastewater shall be utilized for flushing of toilets/ gardening within the premises and the excess shall only be discharged into municipal drain duly meeting the surface water standards.
2	Domestic Effluents		

ii) Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions at peak flow (m ³ /hr)
1	Stack attached to 320 KVA D.G. Set	-----

iii) **HAZARDOUS WASTE AUTHORISATION (FORM - 2) [See Rule 6 (2)]:**

M/s. Hyderabad Eye Institute (Operating trust of L.V. Prasad Eye Institute) is hereby granted an Authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• **HAZARDOUS WASTES WITH RECYCLING OPTION:**

Sl. No	Name of Hazardous Waste	Stream	Quantity	Method of disposal
1	Used oil	5.1 of Schedule-I	20 Lts/Annum	Disposal to A.P.P.C.B. authorised reprocessing agencies.

iv) **BIO MEDICAL WASTE AUTHORIZATION (FORM - III) (See Rule 10)**

(Authorization for operating a facility for generation, collection, reception, treatment, storage, transport and disposal of Bio Medical wastes)

M/s. Hyderabad Eye Institute (Operating trust of L.V. Prasad Eye Institute) an occupier or operator of the facility located at **Kode Venkatadri Chowdary Campus, Tadigadapa, Vijayawada, Krishna District** is hereby granted an authorization to generate, segregate & handle BMW as per the capacity given below:

- Number of beds of HCF: **40 Nos.**
- Quantity of Bio Medical Waste handled, treated or disposed:

Type of Waste Category	Quantity permitted for Handling
Yellow	25 Kgs/month
Red	4 to 9 Kgs/month
White (Translucent)	15 Kgs/month
Blue	-----

This Authorization is subject to the conditions stated below and to such other conditions as may be specified in the Rules in force under the Environment (Protection) Act, 1986.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule - A, B, C & D enclosed to this order.

This combined order of Consent, Hazardous Waste Authorization & Bio Medical Waste shall be valid for a period ending with the 28th February, 2023.

Bonthalakoti
Madhusudhana Rao

Digitally signed by Bonthalakoti
Madhusudhana Rao
Date: 2018.04.11 16:09:20
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JOINT CHIEF ENVIRONMENTAL ENGINEER

To
**M/s. Hyderabad Eye Institute
(Operating trust of L.V. Prasad Eye Institute)
Kode Venkatadri Chowdary Campus
Tadigadapa, Vijayawada
Krishna District**

Copy to the Environmental Engineer, Regional Office, Vijayawada for information and with a direction to ensure the compliance of the time bound conditions and send a detailed report so as to place the hospital before External Advisory Committee (EAC) for review for necessary action, as per the instructions of the Board Office Dt. 21.06.2016 in case of non-compliances.

SCHEDULE-A

- 1) Any up-set condition in any industrial plant / activity of the hospital, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
- 2) The hospital should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.
- 3) All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
- 4) The hospital should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.
- 5) Not withstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
- 6) The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
- 7) The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The hospital should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
- 8) Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21/22 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.

SCHEDULE - B

Committee Recommendation:

The Consent for Operation committee in its meeting held on 22.03.2018 examined the CFO application submitted by the hospital and report submitted by Regional Office, Vijayawada. The committee observed that i) the hospital is a 40 bedded hospital and provided treatment facility to treat the operation theatre washings, lab washings, floor washings, laundry washings and domestic wastewater-8,000 ltrs/day, ii) the hospital has provided STP capacity of 60 KL/day for consisting of collection tank, aeration tank, clarified tank, final water tank and after treatment, iii) the hospital has applied CFO & BMWA and paid fee up to 28.02.2023 under Orange-Haz. category, **However**, iv) the treated waste water is being used for gardening and also discharging into rain water harvesting pit, v) the hospital has not provided water meters to measure the quantity of water consumption and wastewater generation.

After detailed discussion, the committee recommended to issue combined CFO, HWA & BMDA to the hospital with conditions up to 28.02.2023 as per the instructions of Board office vide order dated. 21.06.2016. The committee also recommended to direct the hospital to stop discharge of treated waste water into the rain water harvesting pit and to utilize the entire waste water for onland irrigation within the premises duly meeting the standards stipulated.

- 1) The hospital shall stop discharge of treated waste water into the rain water harvesting pit with immediate effect. The hospital shall utilize the entire waste water for onland irrigation within the premises duly meeting the standards stipulated.

WATER POLLUTION :

- 2) The hospital shall properly collect the disinfected wastewater from operation theatre washings, lab washings and shall be further treated along with floor washings, laundry washings & domestic wastewater-8 KL/day in the ETP to meet surface water standards. The treated wastewater shall be utilized for utilities, flushing of toilets, for onland irrigation within the premises to the maximum extent possible and the excess if any may be discharged into a municipal sewer, after meeting surface water standards.
- 3) The hospital shall comply the following effluent standards based on the disposal points permitted:

Shall comply the norms notified by MoEF & CC vide Notification No:G.S.R.343(E) dated:28.03.2016.

Outlet	Parameter	Limiting Standards
1	pH	6.5-9.0
	Total Suspended Solids (TSS at 103 - 105 °C)	100.00 mg/l
	Chemical Oxygen Demand (COD)	250.00 mg/l
	Biochemical Oxygen Demand (BOD ₅ at 27 °C)	30.00 mg/l
	Oil and Grease	10.00 mg/l
	Bio Assay Test	90% survival of fish after 96 hours in 100% effluent.

- 4) The source of water is being from Borewell. The following is the permitted water consumption:

Description	Quantity (KL/day)
Washings	10.0
Domestic	
Total :	10.0

Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above.

- 5) The hospital shall operate the disinfection facility (1-2% of Sodium Hypochlorite solution) continuously to treat the operation theatre washings, lab washings and send the disinfected washings to STP for further treatment.

- 6) The hospital shall provide digital flow meters with totalizer facility for the STP at inlet and outlet of STP to measure quantity of effluent routed through the STP.
- 7) The hospital shall install a separate energy meter for the STP and maintain log registers to record the energy meter readings pertaining to the operation of the STP.
- 8) The hospital shall not cause ground water pollution in and around the hospital premises.

AIR POLLUTION :

- 9) The hospital shall ensure that no odour nuisance is caused to the surrounding environment.
- 10) The emissions shall not contain constituents in excess of the prescribed limits mentioned below:

Chimney No.	Parameter	Emission Standards (mg/Nm ³)
1	Suspended Particulate Matter	115

- 11) The hospital shall comply with ambient air quality standards of SO₂ - 80 µg/m³; NO_x - 80 µg/m³; PM_{2.5} - 60 µg/m³; PM₁₀ - 100 µg/m³, measured at factory premises at the periphery of the hospital.

Noise Levels:

Day time: (6 AM to 10 PM) - 75 dB(A)

Night time: (10 PM to 6 AM) - 70 dB(A)

- 12) The hospital shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 and G.S.R. 448 (E), dated 12.07.2004 under the Environment (Protection) Act Rules. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.
- 13) The hospital should provide adequate fire protection equipment (such as smoke detectors, fire extinguishers, sand bucket, fire alarm, water sprinklers etc.,) at salient places within the HCEs even at Bio Medical Waste storage area, in accordance with fire safety regulations and the HCE should obtain certificate from fire department.

GENERAL:

- 14) The hospital shall dispose solid waste as follows.

S.No.	Name of the Solid Waste	Quantity	Disposal
1	Human Anatomical Waste	25 Kgs/month	The HCE is sending the Bio-medical waste to CBMWTF M/s. Safenviron, (Unit-II), Dharmavarapupadu Thanda(V), Jaggaiahpet (M), Krishna District for treatment and final disposal as per norms stipulated by the Board.
2	Waste sharps	15 Kgs/month	
3	Solid waste contaminated With blood, and fluids including cotton dressing, Solid plastercasts lines bedding other material Contaminated with blood.	--	
4	Solid waste generated from disposable items other than the waste sharps, such as tubings, catheters, intravenous sets etc.,	4 to 9 Kgs/month	

- 15) The hospital shall not increase the capacity beyond the permitted capacity mentioned in this order, without obtaining CFE/CFO of the Board.
- 16) The hospital shall submit a compliance report on CFO conditions for every 6 months as on 01st January and 01st July of every year at Regional Office and Zonal Office.
- 17) The hospital shall properly collect, segregate and dispose the Bio-Medical Waste as per the provisions Bio-Medical Waste Management Rules, 2016.
- 18) The Mercury spillage/losses due to breakage of Thermometers, pressure and other measuring equipment in Health Care Establishments shall be collected stored and send back to the manufacturers.
- 19) The occupier of hospital shall take all necessary measures to ensure that the spilled mercury does not become part of Bio-Medical or other Solid Waste generated from the hospital.
- 20) The hospital shall develop green belt in all the vacant places. In future, excess green belt over and above 33% of total area can be utilized for industrial activity as per requirement of hospital. In any case, the minimum greenbelt shall be 33% of the total area.

SCHEDULE - C

[See Rule 6 (2)]

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

- 1) All the rules and regulations notified by Ministry of Environment and Forests, Government of India under the E(P) Act, 1986 in respect of management, handling, transportation and storage of the Hazardous wastes should be followed.
- 2) The hospital shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and amendments thereof.
- 3) The hospital shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis/authorized parties.
- 4) The hospital shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
- 5) The hospital shall maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 20(2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

SCHEDULE - D

(See Rule 10)

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING BIO MEDICAL WASTES]

- 1) The person authorized shall comply with the provisions of the Environment (Protection) Act, 1986 and the Rules made there under.

- 2) The authorization or its renewal shall be produced for inspection at the request of an Officer authorized by the prescribed authority.
- 3) The person authorized shall not rent, lend, sell, transfer or otherwise transport the Bio Medical Wastes without obtaining prior permission of the prescribed authority.
- 4) Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
- 5) It is the duty of the authorized person to take prior permission of the prescribed authority to close down the facility and such other terms and conditions as may be stipulated by the prescribed authority.
- 6) The person authorized shall comply with the duties as mentioned at Rule 4 of the Bio Medical Waste Management Rules, 2016.

**Bonthalakoti
Madhusudhana
Rao**

Digitally signed by
Bonthalakoti Madhusudhana
Rao
Date: 2018.04.11 16:09:40
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JOINT CHIEF ENVIRONMENTAL ENGINEER