

# IMPACT OF IDOL IMMERSION DURING DURGA PUJA ON WATER QUALITY OF AQUATIC BODIES -2024



**STATE POLLUTION CONTROL BOARD, ODISHA**  
PARIVESH BHAWAN, A-118, NILAKANTHANAGAR  
UNIT-VIII, BHUBANESWAR-751012

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## CONTENTS

	Page No.
1. Introduction	1
2. Revised Guidelines for idol immersion	2
3. Actions taken by the State Pollution Control Board, Odisha	5
4. Actions taken for implementation of the Guideline during immersion of idols	9
5. Actions taken by the Puja Committee Organisers	15
6. Impact of idol immersion on water bodies	16
7. Recommendations	45
8. Annexures	47-77
9. Newspaper clippings on Actions taken for eco-friendly Puja celebration and idol immersion	78-79



**List of Tables**

		<b>Page no.</b>
Table-1	Date of pre-, During and Post-immersion monitoring for Durga Puja in different municipal areas	8
Table-2	Information on Temporary Idol Immersion Ponds constructed by ULBs	10
Table-3	Water Quality Assessment conducted during Durga Puja	18
Table- 4	Impact of idol immersion during Durga Puja on water quality of Kathajodi river at Cuttack	27
Table- 5	Impact of idol immersion during Durga Puja on water quality of Kuakhai river near Palasuni, Bhubaneswar	29
Table- 6	Impact of idol immersion during Durga Puja on water quality of Kuakhai river near Hansapal, Bhubaneswar	31
Table- 7	Impact of idol immersion during Durga Puja on water quality of Daya river at Tankapani, Bhubaneswar	33
Table- 8	Impact of idol immersion during Durga Puja on water quality of Daya river at Lingipur, Bhubaneswar	35
Table- 9	Impact of idol immersion during Durga Puja on water quality of Brahmani river at Rourkela	37
Table- 10	Impact of idol immersion during Durga Puja on water quality of Mahanadi River at Sambalpur	39
Table-11	Impact of idol immersion during Durga Puja on water quality of Ponds in Balangir Municipality	43

**List of Figures**

		Page No.
Fig. 1	Appeal to Public to observe pollution free Ganesh puja, Khudurukuni Puja, Durga Puja, Laxmi Puja, Kali Puja and Saraswati Puja through Public Notice on Newspapers	7
Fig 2	Immersion of Idol in temporary immersion pond along Kuakhai river	8
Fig. 3	Construction of temporary idol immersion pond on the bank of Kuakhai river in Bhubaneswar	9
Fig. 4	Construction of temporary idol immersion pond on the bank of Kathajodi river in Cuttack	9
Fig. 5	Temporary Idol immersion ponds constructed in other municipal areas of the State	12
Fig. 6	Immersion of idols in temporary immersion ponds	13
Fig. 7	Removal of Immersion left overs using JCB machine	13
Fig. 8	Post immersion period view of Immersion ponds	13
Fig.9	Lighting arrangement around immersion ponds to facilitate idol immersion during night time	13
Fig.10	Post immersion period view of Immersion ponds along Kuakhai river at Hansapal, Bhubaneswar	14
Fig.11	Post immersion period view of Immersion ponds along Daya river at Samantarapur, Bhubaneswar	14
Fig.12	Treatment of pond water with alum after removing immersion left-overs from the immersion ponds	14
Fig. 13	Post immersion period view of Immersion ponds along Daya river at Lingipur, Bhubaneswar	14
Fig.14	Framing of idols using straw and bamboo by idol makers	15
Fig. 15	Covering of idol frame with clay	16
Fig. 16	Idol before coloring	16
Fig. 17	Sketch map of Idol immersion monitoring stations on River	17
Fig. 18	Water quality monitoring of Kathajodi river	17
Fig. 19	Temporary idol immersion pond and River side by side after removal of immersion left overs from the pond	19
Fig. 20	Variation of BOD (in mg/L) in temporary immersion pond constructed along Kathajodi river in Cuttack	20
Fig. 21	Variation of BOD (in mg/L) in temporary immersion pond constructed along Kuakhai river in Bhubaneswar	20
Fig. 22	Variation of BOD (in mg/L) in temporary immersion pond constructed along Daya river in Bhubaneswar	20



Fig. 23	Variation of BOD (in mg/L) in temporary immersion pond constructed along Brahmani river in Rourkela	21
Fig. 24	Variation of BOD (in mg/L) in temporary immersion pond constructed along Mahanadi river in Sambalpur	21
Fig. 25	Variation of BOD (in mg/L) in Kathajodi river along Cuttack	22
Fig. 26	Variation of BOD (in mg/L) in Kuakhai river along Bhubaneswar (at Palasuni)	22
Fig. 27	Variation of BOD (in mg/L) in Kuakhai river along Bhubaneswar (at Hansapal)	22
Fig. 28	Variation of BOD (in mg/L) in Daya river along Bhubaneswar (at Lingipur)	23
Fig. 29	Variation of BOD (in mg/L) in Daya river along Bhubaneswar (at Tankapani)	23
Fig. 30	Variation of BOD (in mg/L) in Brahmani river along Rourkela	23
Fig. 31	Variation of BOD (in mg/L) in Mahanadi river along Sambalpur	24
Fig. 32	Variation of BOD (in mg/L) in Ponds of Balangir	24
Fig. 33	Immersed left overs in the temporary immersion ponds	26

## 1. Introduction

Durga Puja, not only a religious function but also a cultural celebration, is observed with much pomp and galore and also in mass scale in the month of Ashwin in Odia Calender ( September-October in English calender). The puja involves worship of Goddess Maa Durga in idol form usually made from mud and clay. As per religious practice, the idol worship starts from Sasthi day and ends on tenth day (Dashami) of *Shukla pakhya* of Ashwin month. The puja culminates with the bisarjan of idols and other puja offerings in running water bodies.

Since the puja is mostly celebrated in post-monsoon season, and the flow in rivers are high during this period and therefore immersion of idols and puja offerings in the rivers usually have no significant impact on the water quality. However, with the increase in number and size of idols, use of alternate materials other than clay for making the idols, use of synthetic paints and varnishes rather than natural dyes to decorate the idols in present years and moreover, decreased flow in rivers, has increased the probability of contamination of water bodies. Besides these, dumping of puja left-overs such as vastras on idols, flowers, decorating materials (made of paper and plastic), etc. in water bodies during this immersion process has also increased the risk of contamination of water bodies as well as deteriorates the aesthetic quality of the water bodies, may serve as breeding center of various disease causing pathogens. Further, this may also affect the aquatic ecosystem at the immersion sites as well as its down-stream.

Such pollution of waterbodies now necessitates the intervention of regulatory authorities, district administration, municipal bodies and also awareness of public, Puja Committee organisers, idol makers and moreover, sensitization of the civic bodies.

With this background, Central Pollution Control Board (CPCB) has prepared the "Revised Guidelines for Idol Immersion (12.5.2020)" for implementation during immersion of idols in aquatic bodies with the objective to minimize the pollution load on aquatic bodies.

## 2. Revised Guideline for Idol Immersion

The revised guideline prescribes the roles of local bodies/ authorities, Puja Committee Organisers and State Pollution Control Boards or Pollution Control committees for implementation of the Guideline to minimize the impact of idol immersion activities on the aquatic bodies.

These guidelines have been prepared with a view to use eco-friendly idols as well as to ensure environmental friendly idol immersion without affecting the quality of water bodies while ensuring religious observance. These guidelines emphasize the need for restriction on single use plastic materials for making idols, use of naturally occurring colors for coloring idols, imposing restrictions on size of the idol, construction of temporary synthetic lined ponds of adequate capacity, safe disposal of solid wastes generated during visarjan/immersion activities, etc.

In view of changing scenario for safe disposal of idol immersion in water bodies in cities, towns & rural areas, CPCB has revised the Guideline for idol immersion in the year 2020 after a thorough discussion of comments/suggestions of stakeholders received, emphasizing the need of identification of idol makers for manufacture of environment friendly idols, coloring by natural and biodegradable colours only, use of clay for idol making, ban of thermocol and single use plastics in decoration and prasad sevan, safe practices during immersion to prevent casualties and imposition of fines have been incorporated and earlier guidelines issued by CPCB "Guidelines for Idol Immersion" (PROBES/136/2010) has been revised and made it effective from Dt. 01.01.2021. The Revised Guidelines for Idol immersion (12.5.2020) may be downloaded from the website of CPCB and also of SPCB. (Weblink for Odisha SPCB : [http://ospcboard.org/wp-content/uploads/2020/06/295\\_1589273986\\_mediaphoto24365.pdf](http://ospcboard.org/wp-content/uploads/2020/06/295_1589273986_mediaphoto24365.pdf) ). The salient features of the Revised Guidelines are as follows.

### (a) General Guidelines for idol makers

- Craftsmen or artisans involved in making idols should be registered with the civic bodies, and should involve in making eco-friendly idols.
- Use of traditional clay for making idols should be encouraged.

- Use of water soluble, non-toxic natural dyes should be encouraged to colour the idols rather than painting of idols.
- In case of large scale Idol manufacturers (at least involved in making more than 100 idols in a day) shall obtain registration from the concerned ULBs (registration fee along with a deposit as decided by the ULB depending on the idol making capacity) and failing to comply with these guidelines or any violation of registration conditions, the deposit shall be forfeited by the ULB apart from prohibition of idol making at least for two years.

**(b) General Guidelines for Puja Committee Organisers**

- As far as possible, low height and eco-friendly idols (made with natural clay, idols stuffed with eco-friendly food materials, idols decorated with biodegradable, organic colours only should be used for offering poojas to avoid impact on environment.
- In the interest of protection of the environment, Pooja Organizing Committees should procure eco-friendly idols only from the respective ULBs registered or authorised craftsman or artisans.
- Pooja Organising Committees should seek prior permission from concerned ULB as the case may be by providing management plan and the required provisions for ensuring safe idol immersion during festival season in advance for making necessary arrangements in consultation with the concerned departments.
- Ban on use of single use plastic materials, thermocol for decoration and Prasad sevans purposes.
- Worship material like flowers, Patri (leaves), vastras (clothes), decorating materials (made of paper and bio-degradable or compostable plastic but not single use plastic) etc. should be ensured to remove before immersion of idols and segregated in colour coded bins provided at the designated idol immersion areas/spots.

**(c) General Guidelines for idol immersion**

- Mass awareness programmes should be conducted to aware the Public on ill effects of idol immersion.

- All idols should be immersed in the designated area for idol immersion which is cordoned, barricaded and preferably lined with synthetic liner. After immersion, the liner should be removed to collect the dumped materials for final disposal at appropriate places.

**(d) General Guidelines for Local bodies/ Authorities**

- In the interest of protection of environment, Urban and Local bodies (ULBs) shall impose restrictions on height of the idol to the idol making agencies or craftsman or artisans (lesser the size of the idol better would be the immersion process and less consumption of materials required for making idols) depending on the availability of water bodies, provisions made for idol immersions by the ULBs.
- Local bodies/ Authorities should identify adequate number of idol immersion spots to avoid overcrowding and to reduce pollution load on the water bodies. Such spots should be notified and informed to the Puja Committees through awareness programmes.
- At the immersion of sites, burning of solid wastes so generated during the immersion of idols, should be prohibited.
- Within 24 hours of completion of idol immersion activities, the left over materials at the immersion sites should be collected by the local bodies for final disposal at appropriate places.
- In case of immersion of idols in rivers and lakes, arrangements may be made for construction of temporary confined ponds with earthen bunds for the purpose of immersion of idols. After the completion of immersion, supernatant water may be allowed to flow as usual after checking for colour and turbidity. Lime may be allowed to the temporary confined pond.
- Mass awareness programmes may be conducted to educate the people on ill effects of toxic idol immersion.
- Encourage the resident welfare associations in a city or town to create temporary ponds/tanks of suitable size and adequate capacity within their campus with necessary provision for collection and storage of segregated waste

prior to immersion. Individual households may be encouraged to utilize such ponds for immersion purpose.

**e) Role of State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs)**

- Concerned SPCB/ PCC should conduct water quality monitoring of water bodies at the immersion sites preferably in Class-I cities (having population more than one lac), at three stages i.e. Pre-immersion, during immersion and post-immersion. During post-festival, samples should be collected preferably after 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 9<sup>th</sup> day of the festival.
- For ascertaining water quality, physico-chemical parameters such as pH, DO, Colour, BOD, COD, Conductivity, Turbidity, TDS, Chloride, TSS, Hardness, Total alkalinity and Metals such as Chromium, Lead, Zinc, Copper Cadmium, Mercury, Antimony, Barium, Cobalt, Manganese, Strontium may be analysed.
- Apart from the water samples, sediment samples also to be collected during pre-immersion, during immersion and post-immersion and collected sediment samples be analysed for the metals (such as Chromium, Lead, Zinc, Copper, Cadmium, Mercury, Antimony, Barium, Cobalt, Manganese, Strontium).
- Detailed reports may be posted on the SPCBs/PCCs website in public domain. Detailed reports also be shared with Ministry of Environment, Forest and Climate Change (MoEF & CC), Ministry of Jal Shakti (MoJS) and CPCB.

**3. Actions taken by the State Pollution Control Board, Odisha**

In the year 2015, Hon'ble High Court of Orissa have intervened in this matter and vide their order dated 07.10.2015 directed the State Pollution Control Board, Odisha to render necessary assistance to the District Collectors and ensure strict compliances of the Guidelines for Idol Immersion during the Durga Puja and other pujas to follow thereof. In compliance to the order, every year Board is making an intensive as well as proactive approach to ensure the implementation of the Guidelines in all the urban local bodies of the State.

Further, the Forest, Environment and Climate Change Department in Govt. of Odisha has notified the "**Odisha Prevention and Control of Water Pollution (Procedure for Immersion of Idol after Pujas) Rules, 2021**" vide Notification No. 17937 dated 14.10.2021 in



compliance to the directions of the Hon'ble National Green Tribunal, Eastern Zone Bench, Kolkata in connection with O.A.No.51/ 2016 (Ambarnath Sengupta – Vs – The State of West Bengal & Ors.), (order dated 06.10.2017), in consultation with the State Pollution Control Board, Odisha. The Rule has been made comprising the Revised Guidelines of Idol immersion (12.5.2020) prepared by CPCB and Hon'ble NGT directions. The Gazette Notification has been circulated among all stakeholders vide letter No. 3369 dated 04.3.2022 for effective implementation and also has been uploaded in Board's website for public awareness and wider circulation. (weblink : <http://ospcboard.org/wp-content/uploads/2021/10/FE-CC-Notification-on-Idol-Immersion-Rule.pdf>)

Like previous years, to minimize the impact of idol immersion on the water quality, the State Pollution Control Board, Odisha has taken following steps during the year 2022, as recommended in the Guideline for idol immersion and Idol immersion Rules.

- Created public awareness through Public Notice on safe Idol immersion practices in Local Newspapers and in Board's website. (Fig.1).

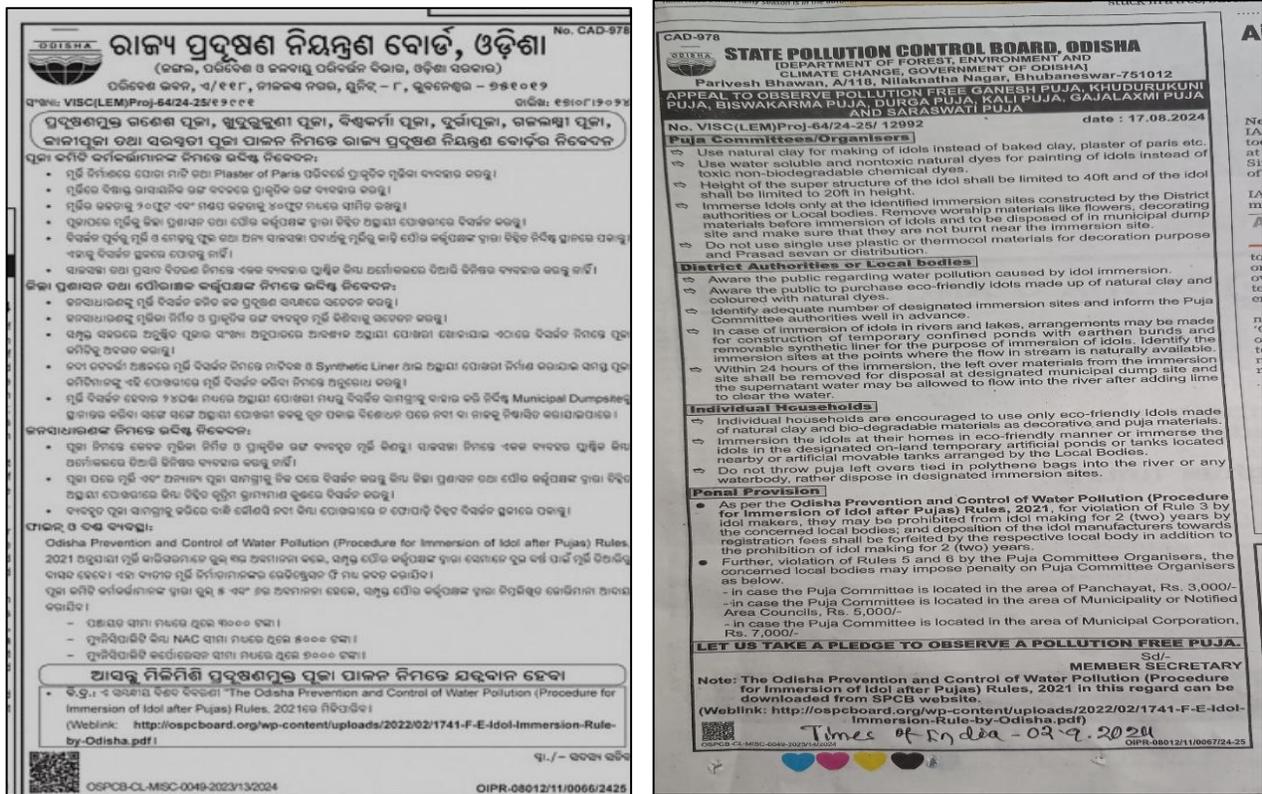


Fig. 1 Appeal to Public to observe pollution free Ganesh puja, Khudurukuni Puja, Durga Puja, Laxmi Puja, Kali Puja and Saraswati Puja through Public Notice on Newspapers

- The public notice has also been published in newspaper of one Odia language and one English language in every week for public awareness.
- Informed all the District Collectors and authorities of urban local bodies of the State proactively prior to Ganesh Puja (onset of festive season) to strictly implement the Guidelines of Immersion in their areas of jurisdiction. Letter No. 12776 dated 14.8.2024) (Annexure-1).
- Made several rounds of meetings with the local bodies/ authorities, Puja Committee Organizers to create awareness on ill impacts of Idol immersion in water bodies and distributed leaflets containing public notice among the puja committee organisers and other Puja mandaps. In Odisha during Durga puja and other pujas, all idols are made of natural clay and are mostly coloured as per religious practice.
- Coordinated with the local bodies/ authorities for construction of temporary immersion ponds near rivers as prescribed in the Guideline (Fig. 2).
- Conducted water quality assessment of the water bodies during Durga Puja in three stages i.e. Pre-immersion, during immersion and post-immersion in four Municipal Corporation areas such as Bhubaneswar, Cuttack, Sambalpur, Rourkela and in one municipal area, Balangir. As during Durga Puja, idols are immersed usually after the day of Dashahara, the during-immersion monitoring was conducted on the next day after immersion. The Post-monitoring was conducted after 3<sup>rd</sup> day, 5<sup>th</sup> day, 7<sup>th</sup> day and 9<sup>th</sup> day of the idol immersion. The date of monitoring in different municipal areas has been detailed in Table-1. Water Samples were collected from rivers and idol immersion ponds by Regional Officers under their respective jurisdiction and submitted to the Central Laboratory for water quality analysis purposes.

**Table-1 : Date of pre-, During and Post-immersion monitoring for Durga Puja in different municipal areas**

Urban Body	Local	Water body	Pre-immersion	During Immersion	Post-immersion
Bhubaneswar Municipal Corporation		Kuakhai River	04.10.2024	15.10.2024	17.10.2024 19.10.2024 21.10.2024 23.10.2024
		Daya River			
Cuttack Municipal Corporation		Kathajodi River	03.10.2024	15.10.2024	17.10.2024 19.10.2024 21.10.2024 23.10.2024
Sambalpur Municipal Corporation		Mahanadi river and temporary immersion sites on bank of Mahanadi river	03.10.2024	15.10.2024	17.10.2024 19.10.2024 21.10.2024 23.10.2024
Rourkela Municipal Corporation		Brahmani River	03.10.2024	16.10.2024	18.10.2024 20.10.2024 22.10.2024 24.10.2024
Balangir		Immersion Ponds	-	14.10.2024	17.10.2024 19.10.2024 21.10.2024 23.10.2024



Fig. 2 Immersion of Idol in temporary immersion pond along Kuakhai river

#### 4. Actions taken for implementation of the Guideline during immersion of Idols

In all urban local bodies of the State, temporary immersion ponds were constructed on the bank of the rivers by the district administrations in coordination with the municipal authorities, before the day of idol immersion. The ponds were lined with removable synthetic liner at its bottom well in advance of the idol immersion (Fig. 3 and 4). The ponds were filled with water before the day of immersion with the water from the nearby rivers or other water bodies. Sign boards were installed at different locations of the ULBs to display route maps to the immersion ponds. Light arrangements were also made around the idol immersion ponds for hassle free idol immersion process. Location of the idol immersion sites and route map were also informed to the Puja committee authorities and were instructed to immerse the idols only at the designated immersion sites.



Fig. 3 Construction of temporary idol immersion pond on the bank of Kuakhai river in Bhubaneswar



Fig. 4 Construction of temporary idol immersion pond on the bank of Kathajodi river in Cuttack

The said liner along with remains of the idols were removed at most of the places within 24 hours of idol immersion. The left over-materials were collected by the local bodies for disposal in municipal dumpsites. After that the bleaching powder was added to disinfect pond water and treated with lime for settlement.

As other pujas involving idol immersion, such as, Gaja Laxmi puja, Kali Puja, Kartikeswar Puja were there within fifteen days to one month gap back-to-back, the immersion ponds were left vacant as such for immersion purposes. Before each immersion process, municipal authorities have taken adequate steps to make ready these ponds by lining the bottom with synthetic liner and filling the pond with water.

As per the information received from different urban local bodies in the State and Regional Officers of the Board, details of temporary idol immersion ponds constructed for the purpose, approximate number of idols immersed during the process are given below (Table-2).

**Table-2 Information on Temporary Idol Immersion Ponds constructed by ULBs**

Name of ULB	Temporary Idol Immersion Pond constructed	Approx. size of ponds	Number of Idols immersed (Approx)
Berhampur Municipal Corporation	1 number near Haridakhandi Main Road	30 ft x 50 ft x 9 ft	Not provided
	1 number near Gosaninuagaon	72 ft x 26 ft x 9 ft	Not provided
	1 number near Meenakshi Nagar Main Road	72 ft x 26 ft x 6 ft	Not provided
	1 number near Ambapua	70 ft x 60 ft x 6 ft	Not provided
Balangir Municipality	Rani bandha Near balangir Law College	15 ft x 15 ft x 5 ft	Not provided
	Maharani Sagar Near Ayurvedic College	50 ft x 45 ft x 3 ft	Not provided
	Laxmi Jore Near Hatisalpada	15 ft x 15 ft x 5 ft	Not provided
Bhubaneswar Municipal Corporation	One number each on the river bank of Kuakhai i.e., (1) Palasuni (Pond-1), (2) Baliana (Pond-2) One number each on the river bank of Daya i.e., (1) Tankapani Road, Bankual (Pond-1)	100 ft x 60 ft  50 ft x 20 ft	187 Nos.



	(2) Lingipur (Pond-2) (3) Near Sai Mandir, Tankapani		
Cuttack Municipal Corporation	3 numbers on the bank of river Kathajodi and Mahanadi	Not provided	120 Nos.
Jajpur Municipality	1 number on the bank of river Baitarani at Debigarh ghat	23 m x 20 m x 10 m	58 Nos.
Jatani Municipal Council	One at Sandhapur	150 ft x 50 ft	Not provided
Kendrapara Municipality	3 Nos. at Near Sani ghat, Near Police Station and Kajala	Not provided	Not provided
Paradeep Municipality	1 No. at Nuabazar in Paradeep	Not provided	Not provided
Pottamundai Municipality	1 No. at Balipada, Pottamundai	Not provided	Not provided
Jagatsinghpur Municipality	4 Nos. at (1 each at Galupada, and Purohitpur, 2 at Stadium Road )	Not provided	Not provided
Rourkela Municipal Corporation	1 pond on the bank of river Brahmani at Balughat	60 ft x 28 ft x 4.2 ft	118
Sambalpur Municipal Corporation	1 pond on the bank of river Mahanadi at Durgapalli 1 pond on the bank of river Mahanadi at Chheruapada 1 pond at Golgunda in Burla area	Not provided	Not provided
Sundargarh Municipality	1 pond on the bank of river IB at Mahadevpada Village	60 ft x 60 ft x 10 ft	Not provided
Rajgangpur Municipality	1 number near Liploi Bridge, Ward No. 11, Rajgangpur	85 ft x 50 ft x 2.4 ft	Not provided

Within 24 hours of completion of idol immersion, the left-overs were removed by the volunteers from Puja Committees alongwith personnels from municipalities and transported to the designated municipal dumpsites of the respective areas for disposal. Excavators were also utilized for removal of idols from the ponds. Immersion of idols in the temporary idol immersion ponds, removal of immersion left-overs from the ponds, transportation to designated dumpsites were carried out by the employees/ volunteers engaged by municipal authorities and Puja Committee Organisers. Temporary Idol immersion ponds constructed in other municipal areas of the State are shown in Figure 5.. Figures 6- 13 given in following page depict the condition of the immersion ponds after the day of immersion.



Paradeep Municipality



Pottamundai Municipality



Photo: Kendrapara Municipality

Kendrapara Municipality



Jagatsinghpur Municipality

Fig. 5 Temporary Idol immersion ponds constructed in other municipal areas of the State



Fig. 6 Immersion of idols in temporary immersion ponds



Fig. 7 Removal of Immersion left overs using JCB machine



Fig. 8 Post immersion period view of Immersion ponds

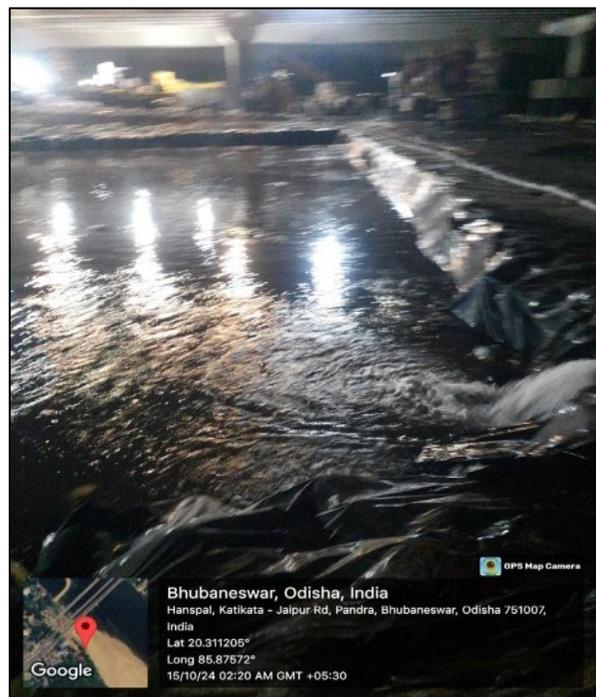


Fig. 9 Lighting arrangement around immersion ponds to facilitate idol immersion during night time

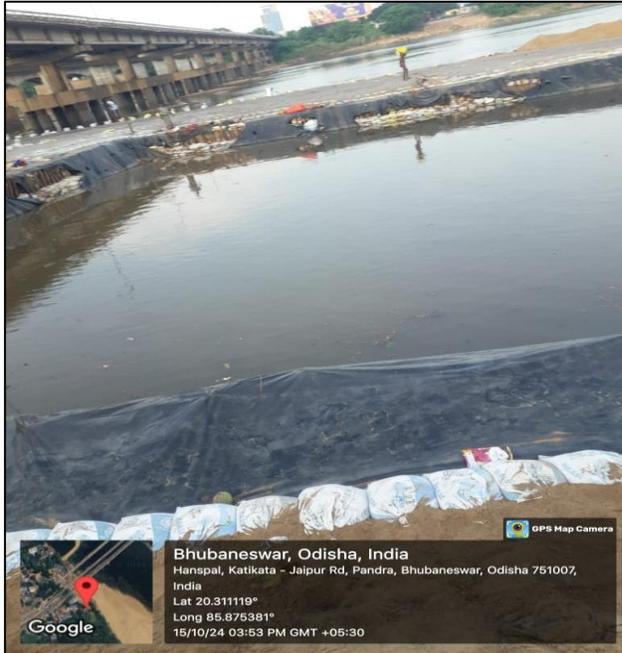


Fig. 10 Post immersion period view of Immersion ponds along Kuakhai river at Hansapal, Bhubaneswar

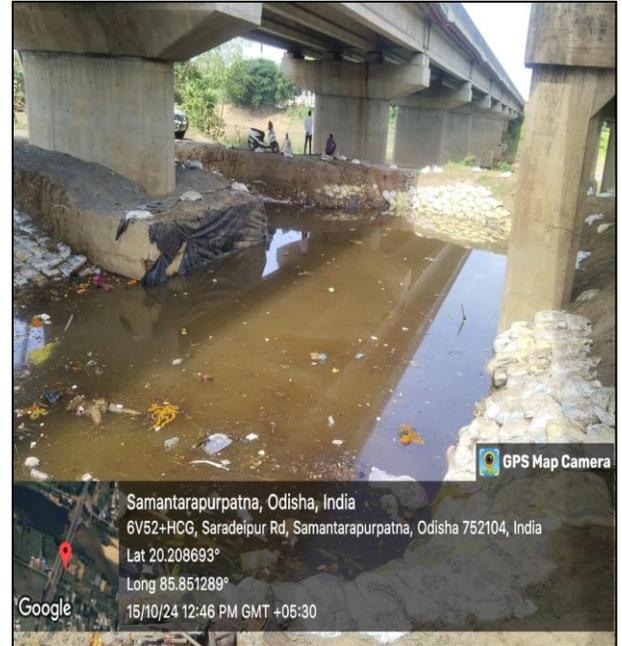


Fig. 11 Post immersion period view of Immersion ponds along Daya river at Samantarapur, Bhubaneswar



Fig. 12 Treatment of pond water with alum after removing immersion left-overs from the immersion ponds



Fig. 13 Post immersion period view of Immersion ponds along Daya river at Lingipur, Bhubaneswar

## **(b) Actions taken for implementation of the Guideline during immersion of Idols in Ponds**

In absence of rivers in the cities, idols were immersed in the ponds. In some urban local bodies, temporary immersion ponds were constructed for such purpose, Such ponds were also lined with the synthetic liner and filled with water from nearby waterbodies prior to the day of immersion. All other arrangements like sanitary condition of the immersion site, light arrangement, route map are were made by the Urban local bodies to facilitate the immersion process in these ponds.

In Berhampur Municipal Corporation area four ponds were created by the Municipal Authorities for immersion of Durga idols and other idols in following other pujas. Such ponds were also constructed in other urban local bodies of the State. In Sambalpur Municipal Corporation , five temporary immersion ponds were created along Mahanadi river for the purpose. However, in Balangir municipality, idols were immersed in the cordoned area of the pond.

As per the Guideline, the designated corner of the pond was cordoned with removable synthetic liner prior to idol immersion. The said liner along with remains of the idols were removed within 24 hours of idol immersion. The left over-materials were removed by the local bodies for disposal in designated dumpsites.

Copies of the actions taken reports submitted by some of the Regional officers of the State Pollution Control Board are enclosed as Annexures 5 to 8.

### **5. Actions taken by the Puja Committee Organsiers**

In Odisha, all idols, in general, are made from natural clay as per religious practice. After constant persuasion of the district administration and municipal authorities, idols were colored with natural and ecofriendly colours instead synthetic colours. Idols were made using clay, bamboo, straw and other such biodegradable materials (Fig. 14-16). Efforts were also made for puja mandap decorations using biodegradable materials, bamboo materials. Prasad bitaran was also done with leaf plates instead of using plastic plates.



Fig.14 Framing of idols using straw and bamboo by idol makers



Fig.15 Covering of idol frame with clay



Fig. 16 Idol before coloring

All Puja committee organisers followed the guidelines of concerned Police authority and municipal authorities for immersion in the temporary ponds on the scheduled day of immersion and designated temporary immersion ponds to prohibit the crowding at the immersion site and traffic congestion due to immersion procession.

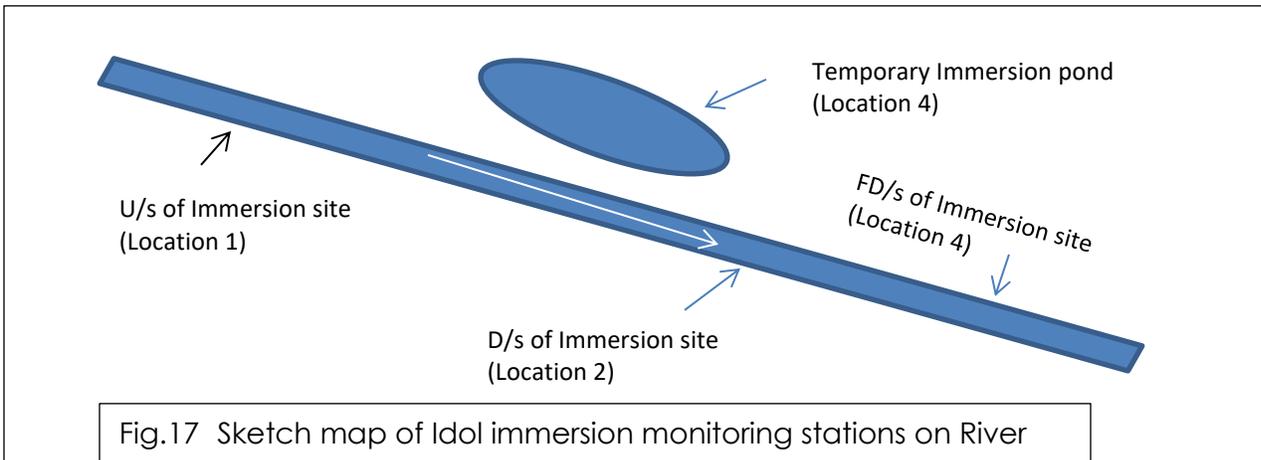
Puja Committee Organizers also engaged volunteers to remove the immersion left overs from the pond within 24 hours of completion of immersion process in coordination with the municipal authorities. The waste materials were handed over to the municipal personnel to dispose at municipal dumpsites.

## 6. Impact of Idol Immersion on water bodies

To assess the Impact of idol immersion on the water quality of rivers, evaluation of water quality status has been carried out in comparison with Class C surface water bodies (IS : 2296 (1982)). Besides these, as per revised guidelines, water quality were also assessed with respect to drinking water specification (IS 10500 (2012)).

To assess the impact of idol immersion during Durga Puja on water bodies, the Board had conducted water quality assessment studies of the rivers flowing along four Municipal Corporation areas, such as, Cuttack, Bhubaneswar, Sambalpur and Rourkela and one municipal area, Balangir as mentioned in Table-1. As per the Revised Guidelines, water quality monitoring was conducted in three stages i.e. pre-immersion, during- immersion and post- immersion period of Durga Puja. Post phase-monitoring

was conducted on 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 9<sup>th</sup> day of idol immersion in respective municipalities. Date of monitoring in these municipal area are not same as the idol immersion of Lord Durga were done in different days. At all locations, temporary idol immersion sites were constructed on the bank of the river. Samples were collected from the upstream of the Idol immersion site, downstream and further downstream of the immersion site and also from the temporary immersion sites as indicated in the Sketch map (Fig. 17).



Water samples were analysed for the physico-chemical parameters as recommended by Central Pollution Control Board (CPCB) for such studies, such as pH, Electrical Conductivity (EC), Turbidity, Total suspended Solids (TSS) , Total Dissolved solids (TDS), Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), chloride, alkalinity, total hardness, calcium, magnesium, hexavalent chromium Total Chromium, Manganese, Nickel, Copper, Lead, Cadmium, Zinc and Mercury.

Water quality results are presented in following pages as mentioned below in Table-3.



Fig. 18 Water quality monitoring of Kathajodi river

**Table-3 Water Quality Assessment conducted during Durga Puja**

Name of ULB	River	Monitoring location	Water quality status given in Table No.
Cuttack Municipal Corporation	Kathajodi	Devighat	Table-4
Bhubaneswar Municipal Corporation	Kuakhai	Hansapal	Table-5
		Palasuni	Table-6
	Daya	Tankapani	Table- 7
		Lingipur	Table- 8
Rourkela Municipal Corporation	Brahmani	Rourkela	Table-9
Puri Municipality	Temporary Immersion Ponds	Puri	Table-10
Sambalpur Municipal Corporation	Temporary Immersion Ponds	Sambalpur	Table- 11
Balangir Municipal Corporation	Temporary Immersion Ponds	Berhampur	Table-12

From the water quality data, it has been observed that

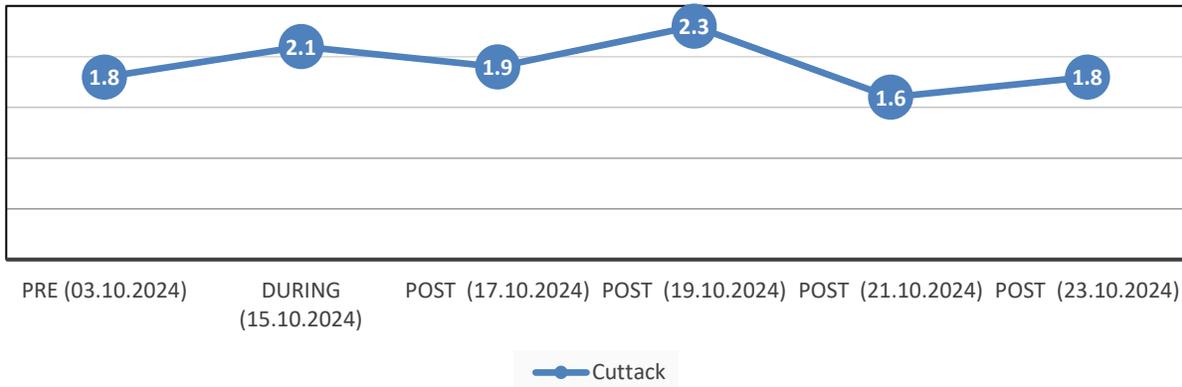
- pH of river water during the study period remained well within the tolerance limit of 6.8-7.8.
- Dissolved Oxygen content in the rivers always remained above 4.0 mg/L which conform to Class C river quality.
- There is no significant change in Electrical conductivity in river water quality in Pre-, During and Post-phases of monitoring.
- BOD values of river monitoring station also remained within the tolerance limit of 3.0 mg/L specified for Class C river throughout the study period.
- Alkalinity, Hardness content, chloride content, remained well within the acceptable limits of drinking water specification.
- No significant variations in total suspended solid content.
- As idols were not directly immersed in river bodies, rather immersed in temporary immersion ponds created on the bank of the rivers and after immersion period also, water from the ponds were not allowed to flow into the rivers, **no impact of idol immersion on the water quality of the rivers has been observed in this study.** (Fig. 19).



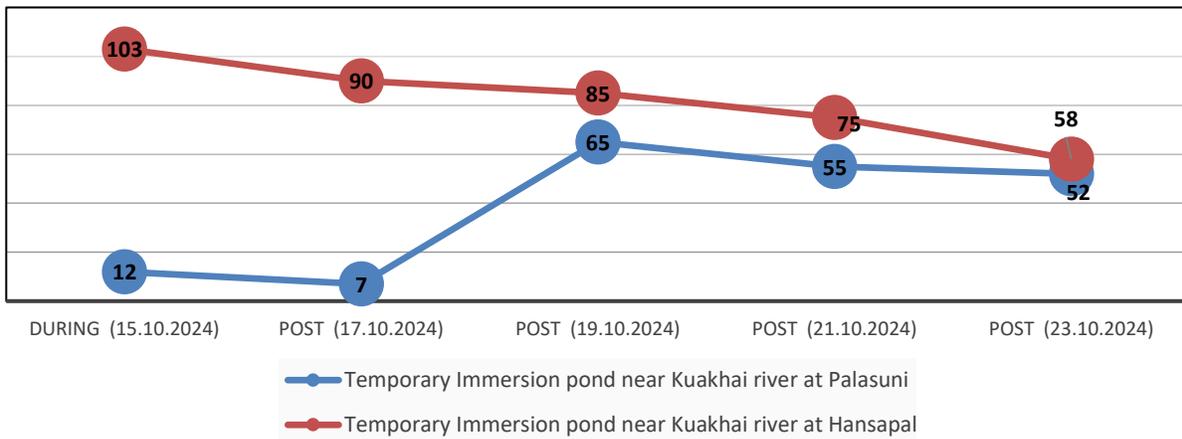
Fig. 19 Temporary idol immersion pond and River side by side after removal of immersion left overs from the pond

- Variation in BOD values in temporary immersion ponds in different municipal areas are shown in Figures 20-24. As observed in the Figures, where the municipal authorities has taken stringent action to remove the immersion left overs from the temporary immersion pond immediately, the BOD values remained within the tolerance limit (3.0 mg/L).
- BOD values in temporary immersion ponds constructed along Kathajodi river along Cuttack city, remained within 3.0 mg/L throughout the study period (Figure 20).
- The high values of BOD in post-phase monitoring at some places indicate the lapse in removal of immersion left-overs from the ponds. Such observation were made in the temporary immersion ponds constructed in Bhubaneswar, Rourkela and Sambalpur. However, the immersion pond water were not allowed to discharge into the adjoining rivers. Therefore water quality of were not deteriorated.

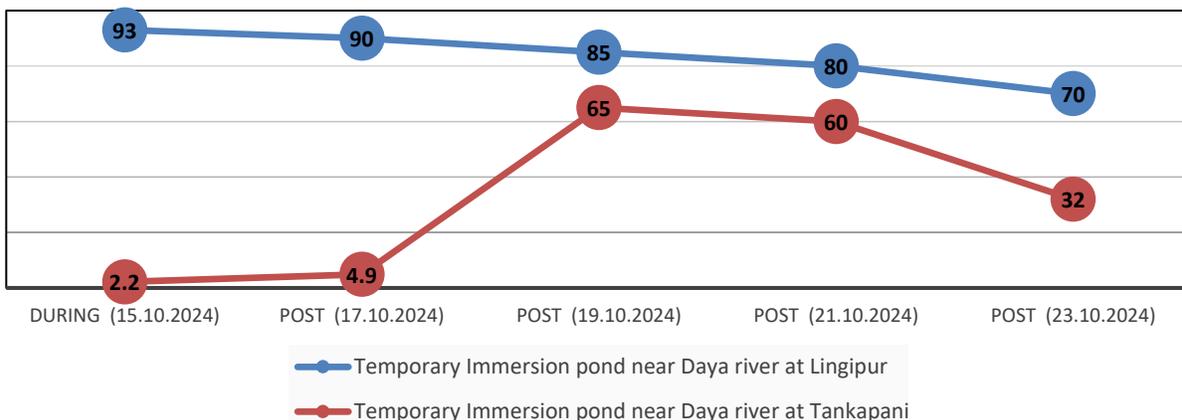
**Fig. 20** Variation of BOD (in mg/L) in temporary immersion ponds constructed along Kathajodi River in Cuttack



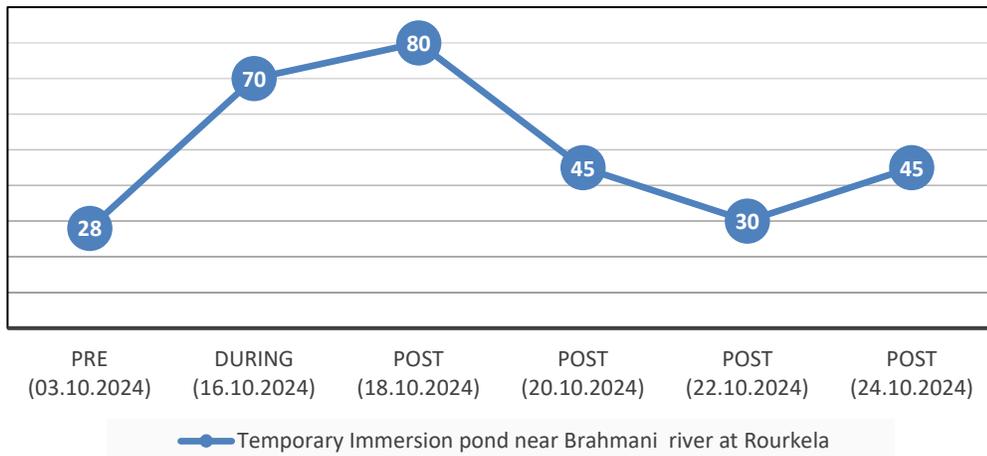
**Fig. 21** Variation of BOD (in mg/L) in temporary immersion ponds constructed along Kuakhai river in Bhubaneswar



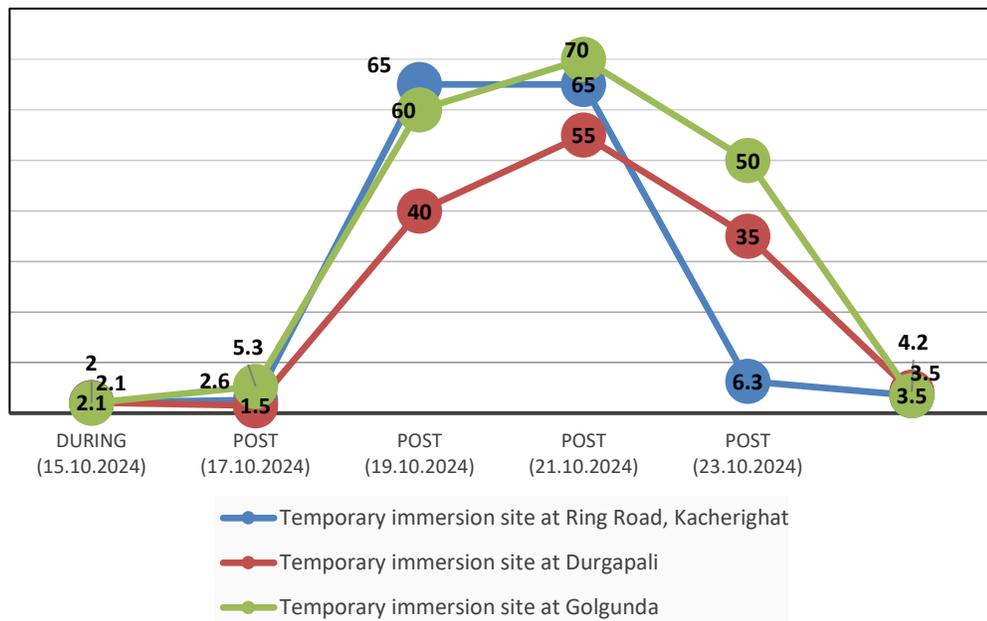
**Fig. 22** Variation of BOD (in mg/L) in temporary immersion ponds constructed along Daya river in Bhubaneswar

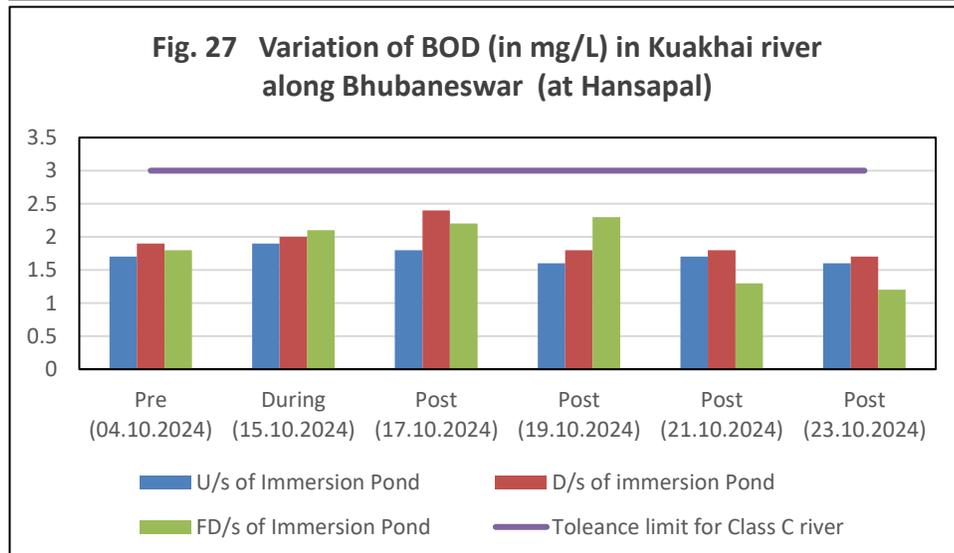
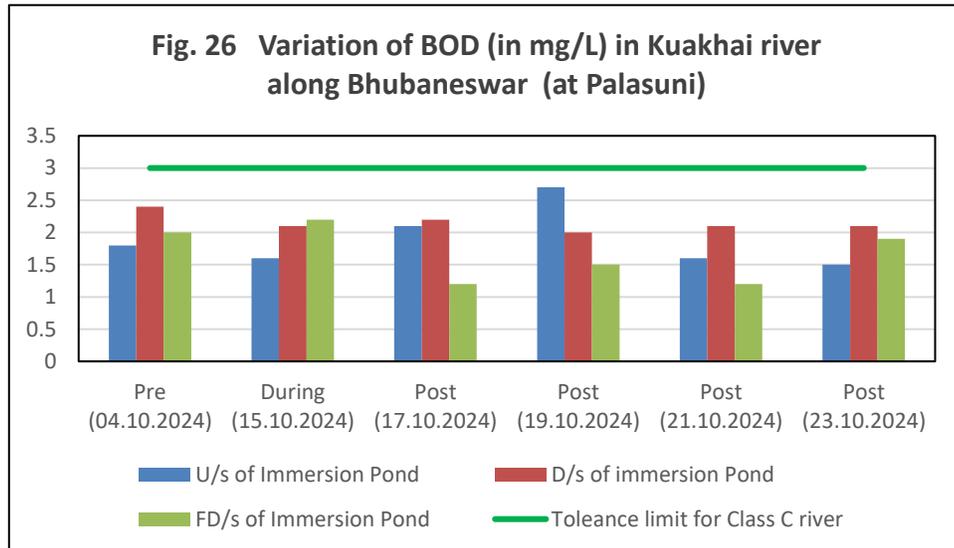
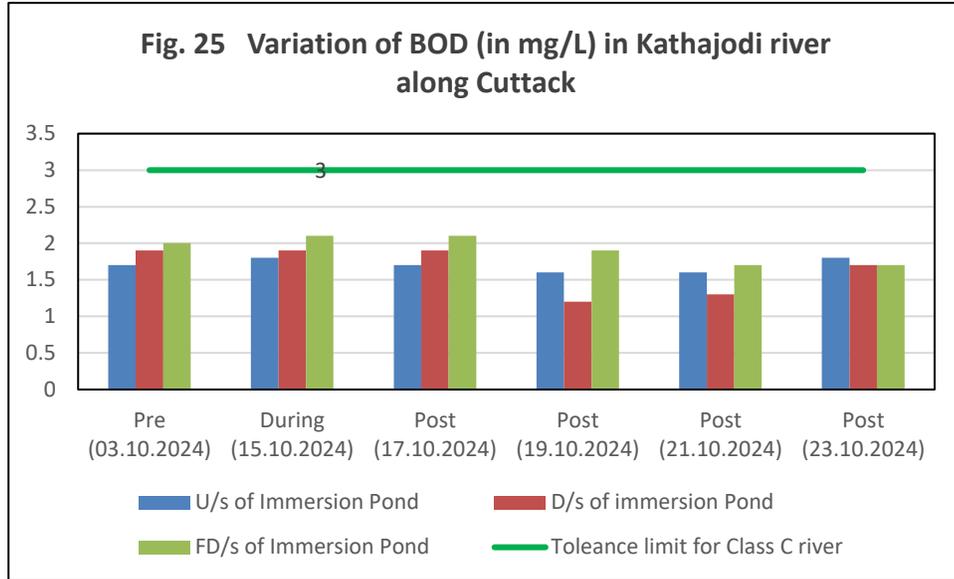


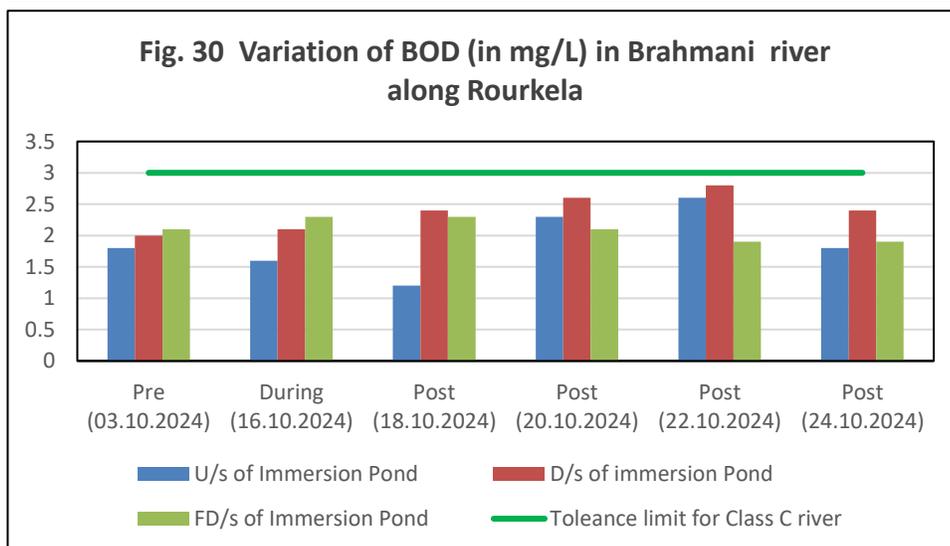
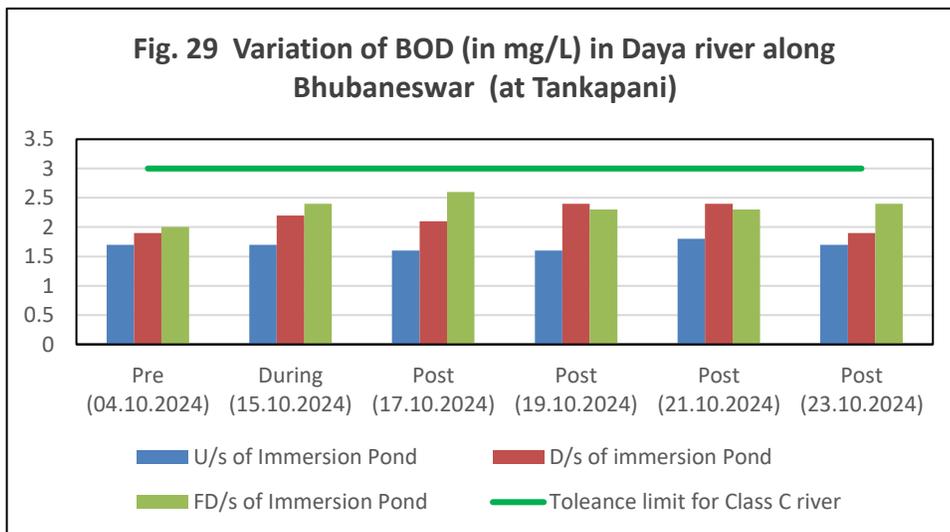
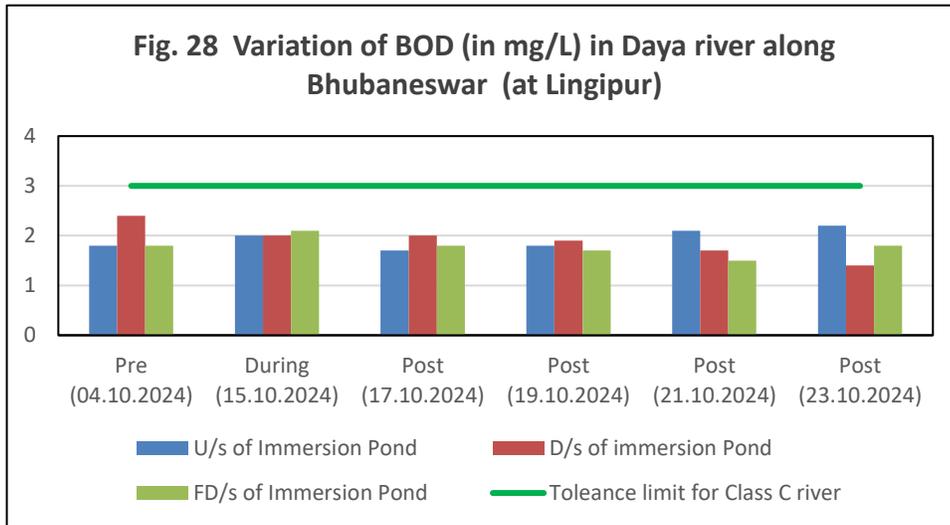
**Fig. 23** Variation of BOD (in mg/L) in temporary immersion ponds constructed along Brahmani River in Rourkela

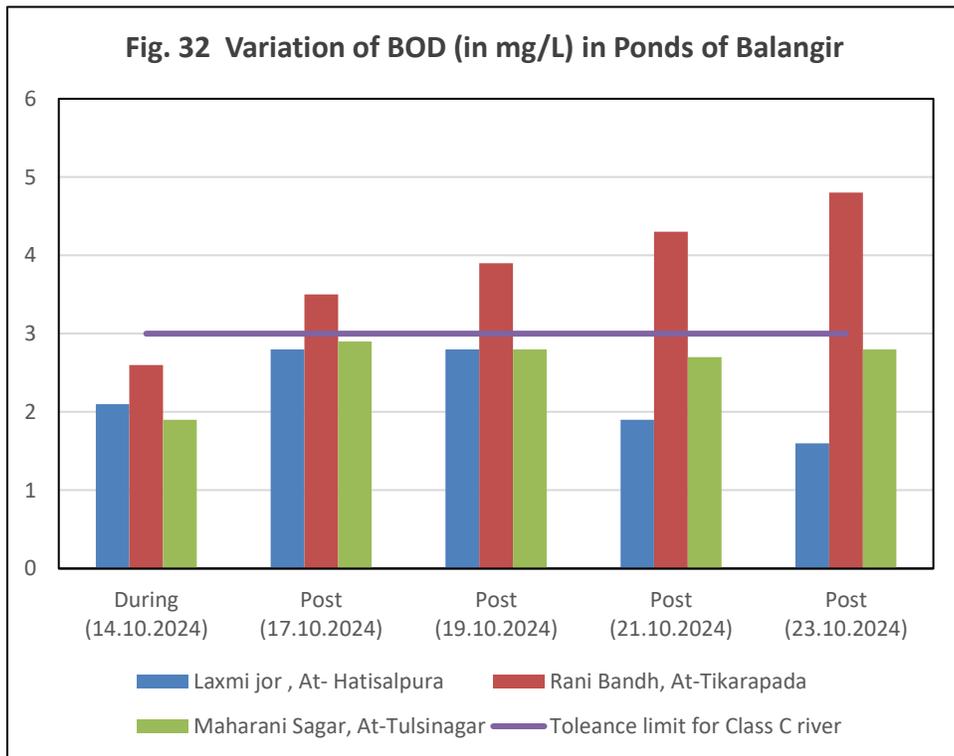
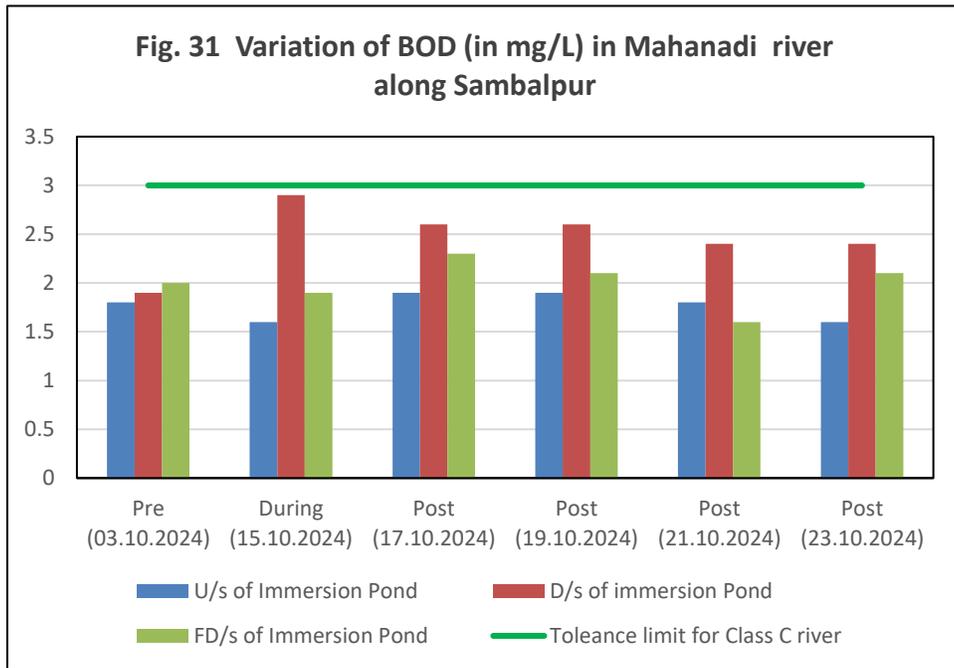


**Fig. 24** Variation of BOD (in mg/L) in temporary immersion ponds constructed along Mahanadi River at Sambalpur









- Water quality of rivers at all monitored places with respect to BOD values in the study period (that is, pre-, during and post immersion periods) are shown in Figures 25-32. BOD values always remained within 3.0 mg/L indicates that no impact of idol immersion on the river water at these places.
- Marginal variation in TSS values and turbidity values in the river water quality are due to the localized impact.
- No significant variation in other monitored physico-chemical parameters were observed in river water quality.
- Other parameters like Total alkalinity, total hardness, calcium, magnesium, and chloride also remained within the tolerance limits for Class-C rivers (IS 2296 (1982) as well drinking water specification IS 10500 (2012)). There is not much significant variation between the upstream, downstream and further downstream stations on the rivers at all monitoring places. However, at the temporary immersion ponds of Bhubaneswar and Rourkela, concentration of these parameters have shown an increasing trend during the immersion period which later reduces over the monitoring period.
- Heavy metal concentrations such as chromium (hexavalent), chromium (total), cadmium, cobalt, copper, manganese, lead zinc and mercury at all monitored places along the rivers remained within the respective tolerance limits for Class-C rivers (IS 2296 (1982) as well drinking water specification IS 10500 (2012)).
- However, in the temporary immersion ponds, the concentration of heavy metals such as cadmium, nickel, Copper, Zinc showed an increasing trend during the study period. This may be attributed to the leaching process of heavy metals from the dumped materials.

**To summarize,**

- Because of the preventive measures taken by the district administration not to allow the water of idol immersion ponds to flow into the river, water quality of the river at the downstream stations in during-immersion and Post-immersion periods mostly remained well within the tolerance limits of the designated use.
- In other areas also where rivers are not within the city limit or its peripheral areas, temporary immersion ponds were constructed for idol immersion purpose only.

For example , in Berhampur Municipality. Care was taken by the Municipal authorities to remove the immersion left overs soon after the completion of idol immersion process. In Balangir municipality, idol immersions were carried out in a barricaded corner of the pond to facilitate removal of idol immersion left overs.

- From the study, it may be concluded that all the parameters specified for the study remained within the tolerance limit for designated class of the river i.e. Class-C (Drinking water source with conventional treatment followed by disinfection) and meet the drinking water specification with respect to all measured parameters. **Immersion of idols in the temporary immersion ponds has minimized the probability of contamination of the main course of river water.**

- However, removal of immersion left overs from the immersion ponds within the prescribed 24 hours is equally important to maintain the aesthetic values of the location, to prevent the over accumulation of the garbage in the area and spread of foul odour in the locality, (Fig. 33)



Fig. 33 Immersed left overs in the temporary immersion ponds

- As idol immersion of Gaja Laxmi Puja, Kali Puja are to be done in the same temporary idol immersion ponds, the immersion left overs were removed in some cases only prior to such immersions and filled with fresh water to facilitate further immersion process.

**Table- 4 Impact of idol immersion during Durga Puja on water quality of Kathajodi river at Cuttack**

Date of Monitoring	Location*	Time of sample collection	pH	EC, $\mu\text{S/cm}$	Turb, NTU	TSS, mg/L	DO, mg/L	BOD, mg/L	COD, mg/L	TDS, mg/L	Cl <sup>-</sup> , mg/L	Alk. as CaCO <sub>3</sub> , mg/L	TH as CaCO <sub>3</sub> , mg/L	Ca, mg/L	Mg, mg/L
Pre-Idol immersion (03.10.2024)	Location-1	9:21 AM	7.4	205	11	23	8.4	1.7	7.8	125	8.0	84	88	24.05	0.24
	Location-2	9:04 AM	7.5	190	14	28	6.9	1.9	12	116	10.0	80	96	25.65	0.24
	Location-3	8:59 AM	7.6	185	13	26	7.3	2	12	113	8.0	80	88	32.06	0.24
	Location-4	9:14 AM	7.7	195	15	30	7.1	1.8	12	119	6.0	88	92	30.46	0.24
During-Idol immersion (15.10.2024)	Location-1	11:11 AM	7.3	260	6.2	16	10	1.8	7.5	159	18.0	84	84	22.44	0.24
	Location-2	10:45 AM	7.1	200	5.8	15	7.6	1.9	12	122	10.0	80	84	24.05	0.24
	Location-3	10:35 AM	7.4	207	7.2	18	8.5	2.1	11	126	10.0	80	96	25.65	0.24
	Location-4	11:00 AM	7.3	710	9.3	21	6.9	2.1	11	433	42.0	204	280	99.40	0.24
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	10:32 AM	7.3	350	6.8	17	9.2	1.7	7.5	214	26.0	112	124	30.46	0.24
	Location-2	10:51 AM	7.2	210	5.9	14	7.4	1.9	11	128	12.0	80	88	24.05	0.24
	Location-3	10:57 AM	7.3	200	6.1	15	6.4	2.1	11	122	10.0	84	100	22.44	0.24
	Location-4	10:40 AM	7.4	705	9.6	23	7.4	1.9	11	430	46.0	224	292	67.33	0.24
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	10:37 AM	7.3	380	11	24	8	1.6	7.5	232	28.0	120	132	41.68	0.24
	Location-2	10:57 AM	7.4	233	7.2	16	7.9	1.2	11	142	12.0	88	88	27.25	0.24
	Location-3	11:02 AM	7.5	210	6.9	15	7.6	1.9	7.5	128	10.0	80	100	30.46	0.24
	Location-4	10:46 AM	7.6	720	9.8	22	5.4	2.3	19	439	60.0	228	280	60.92	0.24
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	11:20 AM	7.5	355	11	24	8.6	1.6	11	217	30.0	128	124	38.48	0.24
	Location-2	11:40 AM	7.6	265	16	35	8.6	1.3	11	162	12.0	84	80	24.05	0.24
	Location-3	11:45 AM	7.7	220	5.1	12	7.2	1.7	7.5	134	10.0	72	88	25.65	0.24
	Location-4	11:29 AM	7.8	850	6.7	18	6.8	1.6	11	519	56.0	196	240	52.91	0.24
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	10:17 AM	7.6	340	11	25	8.8	1.8	11	207	30.0	100	112	30.46	0.24
	Location-2	9:51 AM	7.6	250	4.8	11	7.4	1.7	11	153	12.0	96	96	24.05	0.24
	Location-3	9:58 AM	7.8	190	6.5	14	7	1.7	7.5	116	8.0	84	92	27.25	0.24
	Location-4	10:07 AM	7.7	260	10	23	7.6	1.8	11	159	80.0	204	252	44.89	0.24
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			<b>6.5-8.5</b>	-	-	-	<b>4.0, min</b>	<b>3.0, max</b>	-	<b>1500</b>	<b>600</b>	-	-	-	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>															
Acceptable limit			<b>6.5-8.5</b>	-	<b>1</b>	-	-	-	-	<b>500</b>	<b>250</b>	<b>200</b>	<b>200</b>	<b>75</b>	<b>30</b>
Permissible limit			<b>No relax</b>	-	<b>5</b>	-	-	-	-	<b>2000</b>	<b>1000</b>	<b>600</b>	<b>600</b>	<b>200</b>	<b>100</b>

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site at Khan nagar

Location 4 : Temporary idol immersion site on the bank of the river at Devigada



**With respect to Heavy metals**

Date of Monitoring	Location*	Time of sample collection	Cr <sup>+6</sup> , mg/L	T. Cr, mg/L	Cadmium (mg/L)	Nickel (mg/L)	Copper (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Mercury (mg/L)
Pre-Idol immersion (03.10.2024)	Location-1	9:21 AM	<0.002	0.003	0.0024	0.003	0.003	0.010	0.006	0.005	0.00040
	Location-2	9:04 AM	<0.002	0.003	0.0028	0.003	0.003	0.010	0.007	0.007	0.00040
	Location-3	8:59 AM	<0.002	0.003	0.0026	0.003	0.003	0.010	0.007	0.006	0.00040
	Location-4	9:14 AM	<0.002	0.002	0.0029	0.003	0.003	0.010	0.007	0.007	0.00040
During-Idol immersion (15.10.2024)	Location-1	11:11 AM	<0.002	0.002	0.0033	0.005	0.003	0.011	0.006	0.007	0.00040
	Location-2	10:45 AM	<0.002	0.005	0.0035	0.007	0.007	0.010	0.007	0.010	0.00040
	Location-3	10:35 AM	<0.002	0.002	0.0038	0.007	0.007	0.010	0.007	0.010	0.00040
	Location-4	11:00 AM	0.002	0.007	0.0181	0.017	0.017	0.376	0.014	0.029	0.00160
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	10:32 AM	<0.002	0.002	0.0030	0.012	0.003	0.010	0.006	0.007	0.00080
	Location-2	10:51 AM	<0.002	0.003	0.0035	0.012	0.004	0.012	0.009	0.009	0.00080
	Location-3	10:57 AM	<0.002	0.003	0.0031	0.010	0.004	0.011	0.007	0.006	0.00060
	Location-4	10:40 AM	0.002	0.007	0.0140	0.019	0.022	0.339	0.013	0.027	0.00160
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	10:37 AM	<0.002	0.002	0.0026	0.009	0.004	0.010	0.007	0.007	0.00060
	Location-2	10:57 AM	<0.002	0.007	0.0030	0.010	0.004	0.012	0.008	0.008	0.00080
	Location-3	11:02 AM	<0.002	0.005	0.0026	0.011	0.002	0.011	0.007	0.007	0.00060
	Location-4	10:46 AM	<0.002	0.009	0.0135	0.058	0.024	0.304	0.011	0.026	0.00140
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	11:20 AM	<0.002	0.002	0.0023	0.008	0.003	0.011	0.006	0.007	0.00060
	Location-2	11:40 AM	<0.002	0.003	0.0025	0.009	0.003	0.013	0.005	0.008	0.00080
	Location-3	11:45 AM	<0.002	0.003	0.0021	0.008	0.003	0.012	0.004	0.005	0.00080
	Location-4	11:29 AM	<0.002	0.012	0.0128	0.056	0.015	0.296	0.010	0.024	0.00140
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	10:17 AM	<0.002	0.002	0.0020	0.015	0.003	0.010	0.006	0.007	0.00060
	Location-2	9:51 AM	<0.002	0.003	0.0021	0.016	0.003	0.013	0.008	0.009	0.00060
	Location-3	9:58 AM	<0.002	0.003	0.0021	0.012	0.003	0.012	0.006	0.007	0.00060
	Location-4	10:07 AM	<0.002	0.005	0.0114	0.047	0.015	0.278	0.010	0.020	0.00120
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			<b>0.05</b>	<b>-</b>	<b>0.01</b>	<b>-</b>	<b>1.5</b>	<b>-</b>	<b>0.1</b>	<b>15</b>	<b>-</b>
<b>Drinking Water Specification (IS : 10500 (2012))</b>											
Acceptable limit	-	-	<b>0.05</b>	<b>0.003</b>	<b>0.02</b>	<b>0.05</b>	<b>0.1</b>	<b>0.01</b>	<b>5</b>	<b>0.001</b>	
Permissible limit	-	-	<b>No relaxation</b>	<b>No relaxation</b>	<b>No relaxation</b>	<b>1.5</b>	<b>0.3</b>	<b>No relaxation</b>	<b>15</b>	<b>No relaxation</b>	

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site at Khan nagar

Location 4 : Temporary idol immersion site on the bank of Kathajodi river at Devigada

**Table- 5 Impact of idol immersion during Durga Puja on water quality of Kuakhai river near Palasuni, Bhubaneswar  
(a) With respect to Physico-chemical parameters**

Date of Monitoring	Location*	Time of sample collection	pH	EC, $\mu\text{S}/\text{cm}$	Turb, NTU	TSS, mg/L	DO, mg/L	BOD, mg/L	COD, mg/L	TDS, mg/L	Cl <sup>-</sup> , mg/L	Alk. as $\text{CaCO}_3$ , mg/L	TH as $\text{CaCO}_3$ , mg/L	Page   29	
														Ca, mg/L	Mg, mg/L
Pre-Idol immersion (04.10.2024)	Location-1	9:00 AM	7.2	240	20	42	6.3	1.8	7.8	146	12.0	84	84	27.25	3.89
	Location-2	9:15 AM	7.4	244	22	48	8.2	2.4	12	149	14.0	100	116	32.06	8.75
	Location-3	9:35 AM	7.8	245	12	26	7.8	2	7.8	149	14.0	100	100	30.46	5.83
	Location-4	Immersion pond was not filled with water													
During-Idol immersion (15.10.2024)	Location-1	8:30 AM	7.3	230	9.4	20	7.7	1.6	7.5	140	14.0	84	88	30.46	2.92
	Location-2	8:45 AM	7.4	280	16	34	8.4	2.1	11	171	14.0	100	108	35.27	4.86
	Location-3	9:20AM	7.5	268	15	31	8.8	2.2	7.5	163	16.0	100	112	30.46	8.75
	Location-4	8:55 AM	7.6	268	24	56	1.5	12	57	163	28.0	140	148	49.70	5.83
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	8:15 AM	7.1	300	25	54	8.7	2.1	11	183	16.0	112	120	33.67	8.75
	Location-2	8:30 AM	7.3	280	30	63	8.5	2.2	11	171	16.0	112	140	32.06	14.58
	Location-3	9:00 AM	7.4	328	16	35	8	1.2	7.5	200	14.0	128	140	43.29	7.78
	Location-4	8:40 AM	7.4	425	17	38	2.9	7	45	259	30.0	144	200	64.13	9.72
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	8:00 AM	7.2	420	9.3	20	8.9	2.7	15	256	18.0	120	132	38.48	8.75
	Location-2	8:15 AM	7.3	535	9.8	24	7.7	2	11	326	20.0	76	152	48.10	7.78
	Location-3	8:50 AM	7.4	495	16	34	9.1	1.5	7.5	302	24.0	168	160	38.48	15.55
	Location-4	8:25 AM	7.5	680	13	28	<0.3	65	132	415	34.0	224	192	48.10	17.50
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	8:40 AM	7.2	320	12	25	8.2	1.6	11	195	16.0	92	96	22.44	9.72
	Location-2	8:55 AM	7.3	390	11	24	7.3	2.1	11	238	18.0	96	136	36.87	10.69
	Location-3	9:25 AM	7.5	330	9.4	19	8.6	1.2	7.5	201	14.0	104	108	28.86	8.75
	Location-4	9:05 AM	7.6	350	16	34	<0.3	55	113	214	32.0	164	144	48.10	5.83
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	8:30 AM	7.1	290	13	27	8.1	1.5	7.5	177	12.0	80	116	27.25	11.66
	Location-2	8:45 AM	7.3	260	16	32	7.5	2.1	11	159	16.0	108	124	35.27	8.75
	Location-3	9:05 AM	7.5	235	19	40	9.4	1.9	11	143	16.0	92	168	27.25	24.30
	Location-4	8:55 AM	7.2	320	35	72	<0.3	52	112	195	22.0	144	184	41.68	19.44
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			<b>6.5-8.5</b>	-	-	-	<b>4.0, min</b>	<b>3.0, max</b>	-	<b>1500</b>	<b>600</b>	-	-	-	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>															
Acceptable limit			<b>6.5-8.5</b>	-	<b>1</b>	-	-	-	-	<b>500</b>	<b>250</b>	<b>200</b>	<b>200</b>	<b>75</b>	<b>30</b>
Permissible limit			<b>No relax</b>	-	<b>5</b>	-	-	-	-	<b>2000</b>	<b>1000</b>	<b>600</b>	<b>600</b>	<b>200</b>	<b>100</b>

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site

Location 4 : Temporary idol immersion site on the bank of Kuakhai river at Palasuni



**(b) With respect to Heavy metals**

Date of Monitoring	Location*	Time of sample collection	Cr <sup>+6</sup> , mg/L	T.Cr, mg/L	Cadmium (mg/L)	Nickel (mg/L)	Copper (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Mercury (mg/L)	
Pre-Idol immersion (04.10.2024)	Location-1	9:00 AM	<0.002	0.003	0.0020	0.009	0.006	0.022	0.006	0.010	0.00040	
	Location-2	9:15 AM	<0.002	0.003	0.0024	0.009	0.006	0.024	0.007	0.010	0.00060	
	Location-3	9:35 AM	<0.002	0.003	0.0026	0.008	0.007	0.020	0.006	0.011	0.00060	
	Location-4	Immersion pond was not filled with water										
During-Idol immersion (15.10.2024)	Location-1	8:30 AM	<0.002	0.002	0.0028	0.007	0.007	0.013	0.006	0.009	0.00060	
	Location-2	8:45 AM	<0.002	0.003	0.0053	0.006	0.008	0.020	0.009	0.010	0.00060	
	Location-3	9:20AM	<0.002	0.002	0.0048	0.006	0.007	0.024	0.005	0.009	0.00060	
	Location-4	8:55 AM	<0.002	0.003	0.0069	0.029	0.016	0.036	0.034	0.033	0.00160	
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	8:15 AM	<0.002	0.002	0.0030	0.007	0.006	0.026	0.005	0.010	0.00060	
	Location-2	8:30 AM	<0.002	0.003	0.0035	0.010	0.007	0.049	0.009	0.011	0.00060	
	Location-3	9:00 AM	<0.002	0.003	0.0028	0.009	0.007	0.031	0.007	0.010	0.00060	
	Location-4	8:40 AM	0.003	0.007	0.0063	0.029	0.011	0.151	0.041	0.398	0.00180	
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	8:00 AM	<0.002	0.003	0.0020	0.009	0.005	0.023	0.007	0.008	0.00060	
	Location-2	8:15 AM	<0.002	0.005	0.0023	0.012	0.006	0.024	0.008	0.009	0.00060	
	Location-3	8:50 AM	<0.002	0.003	0.0028	0.011	0.005	0.022	0.006	0.008	0.00060	
	Location-4	8:25 AM	<0.002	0.005	0.0060	0.020	0.014	0.148	0.043	0.046	0.00160	
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	8:40 AM	<0.002	0.002	0.0026	0.008	0.004	0.020	0.006	0.008	0.00060	
	Location-2	8:55 AM	<0.002	0.003	0.0029	0.012	0.004	0.021	0.007	0.009	0.00060	
	Location-3	9:25 AM	<0.002	0.003	0.0028	0.011	0.004	0.021	0.005	0.009	0.00060	
	Location-4	9:05 AM	0.003	0.007	0.0059	0.013	0.012	0.445	0.028	0.041	0.00140	
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	8:30 AM	<0.002	0.002	0.0028	0.008	0.004	0.004	0.005	0.006	0.00060	
	Location-2	8:45 AM	0.002	0.003	0.0030	0.010	0.004	0.006	0.006	0.007	0.00060	
	Location-3	9:05 AM	<0.002	0.003	0.0026	0.011	0.004	0.005	0.005	0.007	0.00060	
	Location-4	8:55 AM	0.005	0.007	0.0053	0.013	0.011	0.501	0.023	0.031	0.00120	
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			-	<b>0.05</b>	-	<b>0.01</b>	-	<b>1.5</b>	-	<b>0.1</b>	<b>15</b>	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>												
Acceptable limit	-	-	<b>0.05</b>	<b>0.003</b>	<b>0.02</b>	<b>0.05</b>	<b>0.1</b>	<b>0.01</b>	<b>5</b>	<b>0.001</b>		
Permissible limit	-	-	<b>No relaxation</b>	<b>No relaxation</b>	<b>No relaxation</b>	<b>1.5</b>	<b>0.3</b>	<b>No relaxation</b>	<b>15</b>	<b>No relaxation</b>		

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site

Location 4 : Temporary idol immersion site on the bank of Kuakhai river at Palasuni

**Table- 6 Impact of idol immersion during Durga Puja on water quality of Kuakhai river near Hansapal, Bhubaneswar  
(a) With respect to Physico-chemical parameters**

Date of Monitoring	Location*	Time of sample collection	pH	EC, $\mu\text{S/cm}$	Turb, NTU	TSS, mg/L	DO, mg/L	BOD, mg/L	COD, mg/L	TDS, mg/L	Cl, mg/L	Alk. as $\text{CaCO}_3$ , mg/L	TH as $\text{CaCO}_3$ , mg/L	Ca, mg/L	Mg, mg/L
Pre-Idol immersion (04.10.2024)	Location-1	10:00 AM	7.2	200	11	25	6.7	1.7	7.5	122	12.0	72	80	24.05	4.86
	Location-2	10:15 AM	7.3	210	9.8	22	8.3	1.9	7.8	128	10.0	84	80	25.65	3.89
	Location-3	10:30 AM	7.5	190	11	23	8.2	1.8	7.8	116	10.0	96	92	27.25	5.83
	Location-4	Immersion pond was not filled with water													
During-Idol immersion (15.10.2024)	Location-1	9:50 AM	7.2	220	19	29	7.2	1.9	7.5	134	14.0	84	92	24.05	7.78
	Location-2	10:10 AM	7.4	210	12	24	8	2	7.5	128	10.0	80	92	25.65	6.80
	Location-3	10:50 AM	7.4	217	15	33	7.9	2.1	11	132	12.0	80	92	25.65	6.80
	Location-4	10:20 AM	7.2	360	70	142	< 0.3	103	151	220	34.0	96	112	30.46	8.75
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	9:30 AM	7.3	220	12	27	6.4	1.8	11	134	12.0	76	84	28.86	4.86
	Location-2	9:45 AM	7.4	210	34	69	8.2	2.4	11	128	10.0	72	80	27.25	2.92
	Location-3	10:20 AM	7.5	225	21	42	6.7	2.2	11	137	14.0	72	84	24.05	5.83
	Location-4	9:55 AM	7.6	380	35	75	< 0.3	90	132	232	34.0	124	128	40.08	6.80
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	9:20 AM	7.3	320	35	74	6.2	1.6	11	195	16.0	80	84	25.65	4.86
	Location-2	9:35 AM	7.5	300	6.8	17	8	1.8	7.5	183	20.0	84	140	36.87	11.66
	Location-3	10:15 AM	7.6	290	11	26	7.1	2.3	15	177	12.0	80	144	33.67	14.58
	Location-4	9:45 AM	7.7	540	90	194	< 0.3	85	132	329	42.0	144	228	52.91	23.33
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	9:55 AM	7.3	300	6.8	15	7.6	1.7	11	183	14.0	96	96	28.86	5.83
	Location-2	10:10 AM	7.4	320	5.1	13	7.6	1.8	7.5	195	14.0	88	92	24.05	7.78
	Location-3	10:35 AM	7.6	364	5.6	14	8	1.3	11	222	14.0	100	108	30.46	7.78
	Location-4	10:20 AM	7.8	690	55	126	< 0.3	75	112	421	100.0	192	212	48.10	22.36
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	9:15 AM	7.1	190	13	27	7.7	1.6	7.5	116	12.0	80	108	32.06	6.80
	Location-2	9:30 AM	7.3	280	7.6	17	8.9	1.7	7.5	171	12.0	80	96	27.25	6.80
	Location-3	9:50 AM	7.3	210	5.3	12	7	1.2	7.5	128	14.0	76	124	28.86	4.86
	Location-4	9:35 AM	7.5	475	30	66	< 0.3	58	92	290	40.0	180	208	65.73	10.69
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			6.5-8.5	-	-	-	4.0, min	3.0, max	-	1500	600	-	-	-	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>															
Acceptable limit			6.5-8.5	-	1	-	-	-	-	500	250	200	200	75	30
Permissible limit			No relax	-	5	-	-	-	-	2000	1000	600	600	200	100

Location-1 : U/s of immersion site  
Location-3 : FD/s of idol immersion site

Location-2 : D/s of idol Immersion site  
Location 4 : Temporary idol immersion site on the bank of Kuakhai river at Hansapal



**With respect to Heavy metals**

Date of Monitoring	Location*	Time of sample collection	Cr <sup>+6</sup> , mg/L	T.Cr, mg/L	Cadmium (mg/L)	Nickel (mg/L)	Copper (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Mercury (mg/L)
Pre-Idol immersion (04.10.2024)	Location-1	10:00 AM	<0.002	0.003	0.0020	0.006	0.007	0.013	0.005	0.005	0.00040
	Location-2	10:15 AM	<0.002	0.005	0.0023	0.007	0.007	0.015	0.006	0.006	0.00060
	Location-3	10:30 AM	<0.002	0.005	0.0024	0.008	0.008	0.017	0.008	0.008	0.00060
	Location-4	Immersion pond was not filled with water									
During-Idol immersion (15.10.2024)	Location-1	9:50 AM	<0.002	0.002	0.0029	0.010	0.008	0.023	0.009	0.008	0.00040
	Location-2	10:10 AM	0.003	0.003	0.0031	0.012	0.009	0.024	0.011	0.010	0.00060
	Location-3	10:50 AM	0.002	0.003	0.0029	0.013	0.009	0.023	0.010	0.010	0.00060
	Location-4	10:20 AM	0.005	0.003	0.0059	0.023	0.019	0.035	0.067	0.116	0.00180
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	9:30 AM	<0.002	0.002	0.0026	0.009	0.008	0.020	0.007	0.005	0.00060
	Location-2	9:45 AM	<0.002	0.003	0.0031	0.015	0.009	0.035	0.011	0.007	0.00060
	Location-3	10:20 AM	<0.002	0.002	0.0028	0.013	0.010	0.027	0.010	0.006	0.00060
	Location-4	9:55 AM	0.005	0.005	0.0075	0.023	0.022	0.047	0.068	0.126	0.00180
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	9:20 AM	<0.002	0.003	0.0023	0.009	0.006	0.017	0.006	0.008	0.00060
	Location-2	9:35 AM	<0.002	0.003	0.0025	0.012	0.009	0.027	0.010	0.009	0.00060
	Location-3	10:15 AM	<0.002	0.003	0.0020	0.010	0.009	0.019	0.008	0.009	0.00060
	Location-4	9:45 AM	0.002	0.005	0.0079	0.023	0.020	0.043	0.051	0.071	0.00160
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	9:55 AM	<0.002	0.003	0.0021	0.012	0.006	0.013	0.005	0.007	0.00060
	Location-2	10:10 AM	<0.002	0.003	0.0024	0.013	0.008	0.023	0.008	0.009	0.00060
	Location-3	10:35 AM	<0.002	0.003	0.0020	0.008	0.007	0.011	0.009	0.009	0.00060
	Location-4	10:20 AM	<0.002	0.005	0.0085	0.023	0.016	0.028	0.048	0.033	0.00120
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	9:15 AM	<0.002	0.002	0.0016	0.010	0.003	0.012	0.005	0.005	0.00060
	Location-2	9:30 AM	<0.002	0.003	0.0019	0.012	0.003	0.012	0.007	0.007	0.00080
	Location-3	9:50 AM	<0.002	0.002	0.0016	0.010	0.004	0.012	0.009	0.006	0.00060
	Location-4	9:35 AM	<0.002	0.005	0.0068	0.020	0.014	0.150	0.045	0.031	0.00120
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>		-	<b>0.05</b>	-	<b>0.01</b>	-	<b>1.5</b>	-	<b>0.1</b>	<b>15</b>	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>											
Acceptable limit	-	-	<b>0.05</b>	<b>0.003</b>	<b>0.02</b>	<b>0.05</b>	<b>0.1</b>	<b>0.01</b>	<b>5</b>	<b>0.001</b>	
Permissible limit	-	-	<b>No relaxation</b>	<b>No relaxation</b>	<b>No relaxation</b>	<b>1.5</b>	<b>0.3</b>	<b>No relaxation</b>	<b>15</b>	<b>No relaxation</b>	

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site

Location 4 : Temporary idol immersion site on the bank of Daya river at Hansapal

**Table- 7 Impact of idol immersion during Durga Puja on water quality of Daya river at Tankapani, Bhubaneswar  
(a) With respect to Physico-chemical parameters**

Date of Monitoring	Location*	Time of sample collection	pH	EC, $\mu\text{S/cm}$	Turb, NTU	TSS, mg/L	DO, mg/L	BOD, mg/L	COD, mg/L	TDS, mg/L	Cl <sup>-</sup> , mg/L	Alk. as CaCO <sub>3</sub> , mg/L	TH as CaCO <sub>3</sub> , mg/L	Ca, mg/L	Mg, mg/L
Pre-Idol immersion (04.10.2024)	Location-1	11:10 AM	7.2	200	13	26	8.6	1.7	7.8	122	10.0	92	96	25.65	4.86
	Location-2	11:25 AM	7.3	210	15	32	6.6	1.9	7.8	128	12.0	84	92	28.86	4.86
	Location-3	11:55 AM	7.5	200	14	28	7.7	2	12	122	10.0	92	92	22.44	8.75
	Location-4	Immersion pond was not filled with water													
During-Idol immersion (15.10.2024)	Location-1	11:30 AM	7.1	237	21	45	10.6	1.7	7.5	145	14.0	84	88	25.65	5.83
	Location-2	11:45 AM	7.2	225	65	133	6.2	2.2	11	137	14.0	96	120	32.06	9.72
	Location-3	12:20 PM	7.3	220	12	25	6.8	2.4	11	134	12.0	84	84	24.05	5.83
	Location-4	12:00 PM	7.4	250	13	26	2.2	2.2	15	153	14.0	88	128	33.67	10.69
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	11:05 AM	7.2	237	13	29	7.3	1.6	7.5	145	10.0	88	88	24.05	6.80
	Location-2	11:20 AM	7.3	227	32	64	5.9	2.1	11	138	18.0	88	124	32.06	10.69
	Location-3	11:55 AM	7.4	230	29	61	8	2.6	15	140	12.0	88	92	27.25	5.83
	Location-4	11:30 AM	7.6	240	13	27	4.8	4.9	23	146	16.0	92	100	33.67	3.89
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	11:05 AM	7.3	250	15	31	6.2	1.6	7.5	153	20.0	96	88	28.86	3.89
	Location-2	11:20 AM	7.6	315	22	44	5.3	2.4	15	192	24.0	84	96	36.87	13.61
	Location-3	11:50 AM	7.7	307	26	52	6.4	2.3	11	187	14.0	84	92	28.86	3.89
	Location-4	11:30 AM	7.8	355	18	36	<0.3	65	113	217	18.0	108	116	33.67	7.78
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	11:10 AM	7.2	280	14	29	6.1	1.8	7.5	171	14.0	92	96	27.25	6.80
	Location-2	11:25 AM	7.3	290	5.1	12	5	2.4	15	177	12.0	104	96	33.67	11.66
	Location-3	11:55 AM	7.3	310	7.4	16	5.6	2.3	15	189	12.0	92	80	25.65	3.89
	Location-4	11:35 AM	7.4	360	38	76	<0.3	60	92	220	20.0	84	140	36.87	11.66
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	10:30 AM	7.1	245	23	50	5.8	1.7	7.5	149	14.0	84	124	32.06	5.83
	Location-2	10:45 AM	7.2	258	17	38	5.2	1.9	7.5	157	14.0	96	152	33.67	7.78
	Location-3	11:10 AM	7.3	215	8.1	18	7.3	2.4	11	131	14.0	80	120	32.06	9.72
	Location-4	10:55 AM	7.4	290	15	33	3.3	32	60	177	14.0	88	104	28.86	7.78
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			<b>6.5-8.5</b>	-	-	-	<b>4.0, min</b>	<b>3.0, max</b>	-	<b>1500</b>	<b>600</b>	-	-	-	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>															
Acceptable limit			<b>6.5-8.5</b>	-	<b>1</b>	-	-	-	-	<b>500</b>	<b>250</b>	<b>200</b>	<b>200</b>	<b>75</b>	<b>30</b>
Permissible limit			<b>No relax</b>	-	<b>5</b>	-	-	-	-	<b>2000</b>	<b>1000</b>	<b>600</b>	<b>600</b>	<b>200</b>	<b>100</b>

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site

Location 4 : Temporary idol immersion site on the bank of Daya river at Tankapani



**(b) With respect to Heavy metals**

Date of Monitoring	Location*	Time of sample collection	Cr <sup>+6</sup> , mg/L	T.Cr, mg/L	Cadmium (mg/L)	Nickel (mg/L)	Copper (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Mercury (mg/L)	
Pre-Idol immersion (04.10.2024)	Location-1	11:10 AM	<0.002	0.002	0.0033	0.005	0.002	0.016	0.005	0.003	0.00060	
	Location-2	11:25 AM	<0.002	0.002	0.0031	0.006	0.002	0.018	0.009	0.006	0.00060	
	Location-3	11:55 AM	<0.002	0.002	0.0035	0.006	0.002	0.018	0.006	0.007	0.00060	
	Location-4											
During-Idol immersion (15.10.2024)	Location-1	11:30 AM	<0.002	0.003	0.0030	0.008	0.007	0.015	0.006	0.005	0.00060	
	Location-2	11:45 AM	0.002	0.003	0.0033	0.008	0.008	0.017	0.009	0.007	0.00060	
	Location-3	12:20 PM	<0.002	0.003	0.0029	0.009	0.009	0.016	0.008	0.006	0.00060	
	Location-4	12:00 PM	0.003	0.007	0.0061	0.022	0.011	0.027	0.025	0.034	0.00120	
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	11:05 AM	<0.002	0.002	0.0029	0.012	0.006	0.017	0.005	0.005	0.00060	
	Location-2	11:20 AM	<0.002	0.005	0.0034	0.015	0.008	0.018	0.012	0.007	0.00060	
	Location-3	11:55 AM	<0.002	0.003	0.0030	0.013	0.010	0.018	0.009	0.005	0.00060	
	Location-4	11:30 AM	0.002	0.005	0.0060	0.021	0.011	0.036	0.058	0.030	0.00100	
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	11:05 AM	<0.002	0.002	0.0020	0.011	0.005	0.015	0.006	0.008	0.00060	
	Location-2	11:20 AM	<0.002	0.003	0.0021	0.012	0.007	0.015	0.009	0.008	0.00060	
	Location-3	11:50 AM	<0.002	0.003	0.0020	0.009	0.008	0.016	0.005	0.009	0.00060	
	Location-4	11:30 AM	0.003	0.009	0.0053	0.019	0.011	0.030	0.045	0.031	0.00100	
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	11:10 AM	<0.002	0.002	0.0028	0.009	0.005	0.015	0.006	0.006	0.00060	
	Location-2	11:25 AM	<0.002	0.003	0.0030	0.010	0.006	0.018	0.006	0.008	0.00060	
	Location-3	11:55 AM	<0.002	0.002	0.0026	0.009	0.005	0.017	0.004	0.009	0.00060	
	Location-4	11:35 AM	0.002	0.007	0.0050	0.017	0.010	0.023	0.046	0.030	0.00080	
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	10:30 AM	<0.002	0.003	0.0030	0.009	0.003	0.013	0.006	0.005	0.00040	
	Location-2	10:45 AM	<0.002	0.003	0.0033	0.010	0.004	0.015	0.004	0.008	0.00060	
	Location-3	11:10 AM	<0.002	0.003	0.0026	0.010	0.004	0.015	0.005	0.007	0.00060	
	Location-4	10:55 AM	<0.002	0.005	0.0048	0.016	0.009	0.021	0.043	0.029	0.00080	
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			-	<b>0.05</b>	-	<b>0.01</b>	-	<b>1.5</b>	-	<b>0.1</b>	<b>15</b>	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>												
Acceptable limit	-	-	<b>0.05</b>	<b>0.003</b>	<b>0.02</b>	<b>0.05</b>	<b>0.1</b>	<b>0.01</b>	<b>5</b>	<b>0.001</b>		
Permissible limit	-	-	<b>No relaxation</b>	<b>No relaxation</b>	<b>No relaxation</b>	<b>1.5</b>	<b>0.3</b>	<b>No relaxation</b>	<b>15</b>	<b>No relaxation</b>		

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site

Location 4 : Temporary idol immersion site on the bank of Daya river at Tankapani

**Table- 8 Impact of idol immersion during Durga Puja on water quality of Daya river at Lingipur, Bhubaneswar  
(a) With respect to Physico-chemical parameters**

Date of Monitoring	Location*	Time of sample collection	pH	EC, $\mu\text{S/cm}$	Turb, NTU	TSS, mg/L	DO, mg/L	BOD, mg/L	COD, mg/L	TDS, mg/L	Cl <sup>-</sup> , mg/L	Alk. as CaCO <sub>3</sub> , mg/L	TH as CaCO <sub>3</sub> , mg/L	Ca, mg/L	Mg, mg/L
Pre-Idol immersion (04.10.2024)	Location-1	12:40 PM	7.2	220	14	29	7.2	1.8	7.8	134	12.0	84	92	25.65	6.80
	Location-2	12:55 PM	7.4	205	15	31	7.8	2.4	19	125	10.0	76	88	28.86	3.89
	Location-3	1:30 PM	7.5	210	12	24	8.3	1.8	7.5	128	10.0	84	84	27.25	3.89
	Location-4	Immersion pond was not filled with water													
During-Idol immersion (15.10.2024)	Location-1	1:00 PM	7.1	210	24	48	7.7	40	78	128	12.0	92	108	22.44	12.64
	Location-2	1:15 PM	7.3	205	7.1	14	8.1	2	11	125	10.0	100	100	35.27	7.78
	Location-3	1:50 PM	7.3	190	5.2	12	8	2.1	7.5	116	10.0	84	96	27.25	6.80
	Location-4	1:25 PM	7.4	710	29	62	<0.3	93	208	433	180.0	152	292	80.16	22.36
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	12:35 AM	7.2	210	90	182	7.3	1.7	7.5	128	14.0	80	112	25.65	11.66
	Location-2	12:50 PM	7.4	205	6.8	18	8	2	11	125	12.0	104	100	28.86	7.78
	Location-3	1:20 PM	7.4	215	11	26	8.5	1.8	11	131	22.0	80	92	27.25	5.83
	Location-4	1:00 PM	7.8	715	16	34	<0.3	90	170	436	120.0	176	260	92.99	6.80
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	12:30 PM	7.1	300	28	56	6.4	1.8	15	183	14.0	84	108	30.46	7.78
	Location-2	12:45 PM	7.2	290	7.3	16	7	1.9	11	177	10.0	80	100	28.86	6.80
	Location-3	1:30 PM	7.3	292	6.8	15	7.5	1.7	11	178	12.0	84	112	32.06	7.78
	Location-4	12:55 PM	7.4	1040	200	540	<0.3	85	151	634	140.0	188	264	78.56	16.52
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	12:30 AM	7.2	280	17	35	6.5	2.1	15	171	14.0	88	88	28.86	3.89
	Location-2	12:45 PM	7.3	270	11	23	8	1.7	7.5	165	8.0	76	92	32.06	7.78
	Location-3	1:25 PM	7.4	265	13	28	6.3	1.5	7.5	162	10.0	88	120	35.27	7.78
	Location-4	12:55 PM	7.5	1020	26	58	<0.3	80	144	622	200.0	208	268	83.37	14.58
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	12:00 PM	7.2	200	4.6	11	7.6	2.2	15	122	14.0	80	92	27.25	5.83
	Location-2	12:15 PM	7.4	185	5.1	11	8.1	1.4	7.5	113	8.0	88	124	35.27	8.75
	Location-3	12:50 PM	7.5	190	5.8	12	6.8	1.8	11	116	12.0	76	140	36.87	11.66
	Location-4	12:25 PM	7.6	805	23	47	<0.3	70	131	491	160.0	220	328	94.59	22.36
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			<b>6.5-8.5</b>	-	-	-	<b>4.0, min</b>	<b>3.0, max</b>	-	<b>1500</b>	<b>600</b>	-	-	-	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>															
Acceptable limit			<b>6.5-8.5</b>	-	<b>1</b>	-	-	-	-	<b>500</b>	<b>250</b>	<b>200</b>	<b>200</b>	<b>75</b>	<b>30</b>
Permissible limit			<b>No relax</b>	-	<b>5</b>	-	-	-	-	<b>2000</b>	<b>1000</b>	<b>600</b>	<b>600</b>	<b>200</b>	<b>100</b>

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site

Location 4 : Temporary idol immersion site on the bank of Daya river at Lingipur



**(b) With respect to Heavy metals**

Date of Monitoring	Location*	Time of sample collection	Cr <sup>+6</sup> , mg/L	T.Cr, mg/L	Cadmium (mg/L)	Nickel (mg/L)	Copper (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Mercury (mg/L)
Pre-Idol immersion (04.10.2024)	Location-1	12:40 PM	<0.002	0.002	0.0026	0.011	0.003	0.013	0.006	0.009	0.00060
	Location-2	12:55 PM	<0.002	0.002	0.0023	0.013	0.003	0.016	0.007	0.010	0.00060
	Location-3	1:30 PM	<0.002	0.002	0.0025	0.012	0.005	0.015	0.005	0.010	0.00060
	Location-4	Immersion pond was not filled with water									
During-Idol immersion (15.10.2024)	Location-1	1:00 PM	<0.002	0.002	0.0028	0.013	0.003	0.014	0.008	0.011	0.00060
	Location-2	1:15 PM	<0.002	0.002	0.0035	0.017	0.004	0.023	0.009	0.013	0.00060
	Location-3	1:50 PM	<0.002	0.002	0.0028	0.012	0.004	0.021	0.008	0.011	0.00060
	Location-4	1:25 PM	0.003	0.003	0.0110	0.035	0.012	0.016	0.042	0.046	0.00160
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	12:35 AM	<0.002	0.003	0.0029	0.013	0.003	0.013	0.008	0.010	0.00060
	Location-2	12:50 PM	<0.002	0.005	0.0035	0.017	0.003	0.026	0.011	0.012	0.00060
	Location-3	1:20 PM	<0.002	0.005	0.0028	0.015	0.004	0.026	0.008	0.011	0.00060
	Location-4	1:00 PM	<0.002	0.009	0.0110	0.042	0.016	0.037	0.048	0.176	0.00160
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	12:30 PM	<0.002	0.002	0.0025	0.011	0.003	0.013	0.005	0.010	0.00060
	Location-2	12:45 PM	<0.002	0.003	0.0026	0.014	0.005	0.039	0.006	0.012	0.00060
	Location-3	1:30 PM	<0.002	0.002	0.0030	0.013	0.007	0.035	0.008	0.009	0.00060
	Location-4	12:55 PM	0.002	0.009	0.0089	0.043	0.023	0.035	0.043	0.051	0.00160
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	12:30 AM	<0.002	0.002	0.0028	0.013	0.003	0.014	0.005	0.010	0.00060
	Location-2	12:45 PM	<0.002	0.003	0.0030	0.015	0.003	0.015	0.007	0.011	0.00060
	Location-3	1:25 PM	<0.002	0.003	0.0026	0.013	0.003	0.015	0.005	0.008	0.00060
	Location-4	12:55 PM	<0.002	0.005	0.0084	0.043	0.021	0.025	0.042	0.035	0.00140
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	12:00 PM	<0.002	0.002	0.0028	0.014	0.003	0.015	0.005	0.009	0.00060
	Location-2	12:15 PM	<0.002	0.003	0.0030	0.014	0.004	0.017	0.005	0.010	0.00080
	Location-3	12:50 PM	<0.002	0.003	0.0029	0.013	0.005	0.015	0.005	0.008	0.00060
	Location-4	12:25 PM	<0.002	0.005	0.0075	0.033	0.019	0.023	0.043	0.033	0.00120
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			<b>0.05</b>	<b>-</b>	<b>0.01</b>	<b>-</b>	<b>1.5</b>	<b>-</b>	<b>0.1</b>	<b>15</b>	<b>-</b>
<b>Drinking Water Specification (IS : 10500 (2012))</b>											
Acceptable limit	-	-	<b>0.05</b>	<b>0.003</b>	<b>0.02</b>	<b>0.05</b>	<b>0.1</b>	<b>0.01</b>	<b>5</b>	<b>0.001</b>	
Permissible limit	-	-	<b>No relaxation</b>	<b>No relaxation</b>	<b>No relaxation</b>	<b>1.5</b>	<b>0.3</b>	<b>No relaxation</b>	<b>15</b>	<b>No relaxation</b>	

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site

Location 4 : Temporary idol immersion site on the bank of Daya river at Lingipur

**Table- 9 Impact of idol immersion during Durga Puja on water quality of Brahmani river at Rourkela**

**(a) With respect to Physico-chemical parameters**

Date of Monitoring	Location*	Time of sample collection	pH	EC, $\mu\text{S/cm}$	Turb, NTU	TSS, mg/L	DO, mg/L	BOD, mg/L	COD, mg/L	TDS, mg/L	Cl <sup>-</sup> , mg/L	Alk. as CaCO <sub>3</sub> , mg/L	TH as CaCO <sub>3</sub> , mg/L	Ca, mg/L	Mg, mg/L
Pre-Idol immersion (03.10.2024)	Location-1	12:10 PM	7.2	160	8.3	19	8.2	1.8	7.8	98	10.0	84	72	24	3
	Location-2	12:36 PM	7.1	184	9.2	23	7.4	2	12	112	26.0	104	124	43	4
	Location-3	12:00 PM	7.1	165	11	25	6.9	2.1	16	101	10.0	64	60	19	3
	Location-4	12:23 PM	7.4	610	15	34	0.8	28	67	372	48.0	240	232	50	26
During-Idol immersion (16.10.2024)	Location-1	9:10 AM	7.1	184	7.2	16	8.8	1.6	7.5	112	10.0	72	80	21	7
	Location-2	9:30 AM	7.2	276	14	29	7.2	2.1	11	168	24.0	72	160	48	10
	Location-3	10:00AM	6.9	183	12	27	7.2	2.3	16	112	8.0	64	84	26	5
	Location-4	10:20 AM	7.2	630	17	38	>0.3	70	151	384	120.0	216	280	72	24
Post (3 <sup>rd</sup> ) During-Idol immersion (18.10.2024)	Location-1	4:39 PM	7.2	190	13	26	9.1	1.2	7.5	116	12.0	72	72	24	3
	Location-2	4:31 PM	7.1	250	16	35	7.1	2.4	15	153	12.0	68	128	32	12
	Location-3	4:49 PM	7.1	210	20	41	6.5	2.3	11	128	24.0	68	84	24	6
	Location-4	4:23 PM	7.2	670	16	37	>0.3	80	151	409	140.0	232	272	85	15
Post (5 <sup>th</sup> ) During-Idol immersion (20.10.2024)	Location-1	12:10 PM	7.2	230	4.6	13	10.9	2.3	11	140	12	72	84	29	2
	Location-2	11:45 AM	7.1	220	12	24	8.7	2.6	15	134	22	64	104	30	7
	Location-3	11:29 AM	6.9	170	13	26	7.5	2.1	11	104	12	60	80	29	2
	Location-4	11:57 AM	7.3	750	9.1	20	1.4	45	93	458	140	224	256	77	16
Post (7 <sup>th</sup> ) During-Idol immersion (22.10.2024)	Location-1	4:25 PM	7.2	215	12	25	10.4	2.6	7.5	131	10	64	76	24	4
	Location-2	4:06 PM	7.2	240	19	38	10.7	2.8	19	146	14	80	96	32	4
	Location-3	3:51 PM	6.9	190	17	35	9.8	1.9	11	116	8	80	84	27	4
	Location-4	4:15 PM	7.4	710	9.7	21	0.7	30	75	433	8	188	280	85	17
Post (9 <sup>th</sup> ) During-Idol immersion (24.10.2024)	Location-1	1:44 PM	7.3	240	11	24	9.5	1.8	7.5	146	12	80	88	29	4
	Location-2	1:20 PM	7.3	235	13	28	9.8	2.4	11	143	16	76	92	32	3
	Location-3	1:02 PM	7.1	190	9.9	22	7.9	1.9	11	116	10	80	88	27	5
	Location-4	1:35 PM	7.4	750	9.2	23	<0.3	45	93	458	140	176	280	48	39
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			<b>6.5-8.5</b>	-	-	-	<b>4.0, min</b>	<b>3.0, max</b>	-	<b>1500</b>	<b>600</b>	-	-	-	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>															
Acceptable limit			<b>6.5-8.5</b>	-	<b>1</b>	-	-	-	-	<b>500</b>	<b>250</b>	<b>200</b>	<b>200</b>	<b>75</b>	<b>30</b>
Permissible limit			<b>No relax</b>	-	<b>5</b>	-	-	-	-	<b>2000</b>	<b>1000</b>	<b>600</b>	<b>600</b>	<b>200</b>	<b>100</b>

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site

Location 4 : Temporary idol immersion site on the bank of Brahmani Rivera at Balughat



**(b) With respect to Heavy metals**

Date of Monitoring	Location*	Time of sample collection	Cr <sup>+6</sup> , mg/L	T.Cr, mg/L	Cadmium (mg/L)	Nickel (mg/L)	Copper (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Mercury (mg/L)
Pre-Idol immersion (03.10.2024)	Location-1	12:10 PM	<0.002	0.002	0.0014	0.009	0.005	0.019	0.005	0.004	0.00060
	Location-2	12:36 PM	<0.002	0.002	0.0018	0.010	0.009	0.013	0.006	0.005	0.00060
	Location-3	12:00 PM	<0.002	0.002	0.0025	0.011	0.010	0.020	0.005	0.003	0.00060
	Location-4	12:23 PM	<0.002	0.002	0.0023	0.006	0.012	0.013	0.008	0.006	0.00060
During-Idol immersion (16.10.2024)	Location-1	9:10 AM	<0.002	0.002	0.0020	0.012	0.006	0.018	0.005	0.008	0.00060
	Location-2	9:30 AM	<0.002	0.003	0.0025	0.012	0.012	0.029	0.007	0.009	0.00080
	Location-3	10:00AM	<0.002	0.003	0.0021	0.013	0.012	0.034	0.005	0.009	0.00080
	Location-4	10:20 AM	<0.002	0.007	0.0203	0.256	0.031	0.356	0.065	0.027	0.00120
Post (3 <sup>rd</sup> ) During-Idol immersion (18.10.2024)	Location-1	4:39 PM	<0.002	0.002	0.0025	0.011	0.005	0.016	0.005	0.005	0.00060
	Location-2	4:31 PM	<0.002	0.003	0.0028	0.011	0.005	0.021	0.006	0.007	0.00060
	Location-3	4:49 PM	<0.002	0.002	0.0024	0.011	0.005	0.020	0.006	0.008	0.00060
	Location-4	4:23 PM	<0.002	0.005	0.0210	0.612	0.054	0.578	0.066	0.028	0.00140
Post (5 <sup>th</sup> ) During-Idol immersion (20.10.2024)	Location-1	12:10 PM	<0.002	0.002	0.0023	0.010	0.004	0.009	0.006	0.008	0.00060
	Location-2	11:45 AM	<0.002	0.002	0.0024	0.012	0.004	0.016	0.008	0.009	0.00080
	Location-3	11:29 AM	<0.002	0.002	0.0020	0.010	0.005	0.012	0.006	0.009	0.00060
	Location-4	11:57 AM	0.002	0.005	0.0208	0.489	0.034	0.226	0.044	0.028	0.00180
Post (7 <sup>th</sup> ) During-Idol immersion (22.10.2024)	Location-1	4:25 PM	<0.002	0.002	0.0019	0.006	0.002	0.013	0.005	0.009	0.00060
	Location-2	4:06 PM	<0.002	0.003	0.0021	0.011	0.002	0.013	0.008	0.010	0.00080
	Location-3	3:51 PM	<0.002	0.002	0.0026	0.008	0.003	0.011	0.007	0.009	0.00060
	Location-4	4:15 PM	<0.002	0.007	0.0244	1.050	0.037	1.050	0.040	1.070	0.00200
Post (9 <sup>th</sup> ) During-Idol immersion (24.10.2024)	Location-1	1:44 PM	<0.002	0.002	0.0019	0.009	0.003	0.012	0.003	0.006	0.00060
	Location-2	1:20 PM	<0.002	0.002	0.0023	0.013	0.002	0.028	0.005	0.004	0.00060
	Location-3	1:02 PM	<0.002	0.002	0.0020	0.009	0.004	0.021	0.006	0.004	0.00060
	Location-4	1:35 PM	<0.002	0.005	0.0247	1.055	0.046	1.050	0.050	0.938	0.00180
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			<b>0.05</b>	<b>-</b>	<b>0.01</b>	<b>-</b>	<b>1.5</b>	<b>-</b>	<b>0.1</b>	<b>15</b>	<b>-</b>
<b>Drinking Water Specification (IS : 10500 (2012))</b>											
Acceptable limit	-	-	<b>0.05</b>	<b>0.003</b>	<b>0.02</b>	<b>0.05</b>	<b>0.1</b>	<b>0.1</b>	<b>5</b>	<b>0.001</b>	
Permissible limit	-	-	<b>No relaxation</b>	<b>No relaxation</b>	<b>No relaxation</b>	<b>1.5</b>	<b>0.3</b>	<b>No relaxation</b>	<b>15</b>	<b>No relaxation</b>	

Location-1 : U/s of immersion site

Location-2 : D/s of idol Immersion site

Location-3 : FD/s of idol immersion site

Location 4 : Temporary idol immersion site on the bank of Brahmani Rivera at Balughat

**Table- 10 Impact of idol immersion during Durga Puja on water quality of Mahanadi River at Sambalpur**

**(a) With respect to Physico-chemical parameters**

Date of Monitoring	Location*	Time of sample collection	pH	EC, $\mu\text{S/cm}$	Turb, NTU	TSS, mg/L	DO, mg/L	BOD, mg/L	COD, mg/L	TDS, mg/L	Cl <sup>-</sup> , mg/L	Alk. as CaCO <sub>3</sub> , mg/L	TH as CaCO <sub>3</sub> , mg/L	Ca, mg/L	Mg, mg/L
Pre-Idol immersion (03.10.2024)	Location-1	3:50 PM	7.4	193	6.8	14	8.7	1.8	7.5	118	10.0	72	84	24.05	5.83
	Location-2	4:45 PM	7.6	215	7.8	19	6.1	1.9	12	131	12.0	68	100	30.46	5.83
	Location-3	5:00 PM	7.7	203	8.3	21	8.1	2	12	124	10.0	80	96	27.25	6.80
	Location-4	2:10 PM	7.8	185	6.4	16	7.2	2.1	16	113	6.0	72	88	20.84	8.75
	Location-5	1:40 PM	7.8	160	9.3	22	8.2	2.1	16	98	22.0	104	124	40.08	5.83
	Location-6	12:30 PM	7.7	230	17	36	8.4	2	16	140	22.0	84	88	35.27	0.00
	Location-7	3:28 PM	7.9	615	20	42	1.8	2.4	16	375	40.0	236	268	101.00	3.89
	Location-8	4:28 PM	7.8	620	12	26	1.8	2.1	12	378	54.0	228	300	97.80	13.61
	Location-9	5:30 PM	7.7	370	28	56	2.8	1.3	7.8	226	28.0	132	152	40.08	12.64
During-Idol immersion (15.10.2024)	Location-1	2:35 PM	7.3	270	10	23	7	1.6	7.5	165	8.0	76	80	27.25	2.92
	Location-2	2:56 PM	7.4	280	9.6	21	5.4	2.9	11	171	10.0	84	92	28.86	4.86
	Location-3	3:45 PM	7.5	290	8.6	19	7	1.9	7.5	177	10.0	80	92	28.86	4.86
	Location-4	3:20 PM	7.6	325	9.4	20	3.3	2.6	23	198	12.0	76	96	27.25	6.80
	Location-5	2:10 PM	7.6	390	6.2	14	9.3	1.5	11	238	22.0	104	112	32.06	7.78
	Location-6	1:35 PM	7.6	400	12	26	2.4	5.3	23	244	26.0	100	100	32.06	4.86
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	11:50 AM	7.3	270	7.1	17	7	1.9	7.5	165	10.0	84	88	25.65	5.83
	Location-2	9:57 AM	7.4	280	10	22	6.4	2.6	11	171	12.0	72	80	25.65	3.89
	Location-3	11:30 AM	7.5	290	6.3	14	8.1	2.3	11	177	16.0	96	92	25.65	6.80
	Location-4	10:15 AM	7.5	330	13	29	<0.3	65	113	201	14.0	92	80	24.05	4.86
	Location-5	12:20 PM	7.6	380	6.8	18	2.4	40	84	232	22.0	92	124	36.87	7.78
	Location-6	12:45 PM	7.7	390	9.1	21	<0.3	60	94	238	26.0	100	108	30.46	7.78
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	10:15 AM	7.4	270	5.8	15	7.4	1.9	7.5	165	8.0	88	76	22.44	4.86
	Location-2	10:38 AM	7.5	265	4.6	13	5.7	2.6	11	162	10.0	76	84	28.86	2.92
	Location-3	11:40 AM	7.5	290	7.6	17	4.9	2.1	7.5	177	10.0	84	100	25.65	8.75
	Location-4	10:59 AM	7.6	340	9.6	22	<0.3	65	113	207	14.0	96	96	33.67	2.92
	Location-5	12:35 PM	7.5	400	8.5	19	2.3	55	94	244	24.0	112	112	33.67	6.80
	Location-6	12:56 PM	7.7	380	9.3	20	<0.3	70	113	232	22.0	108	100	32.06	4.86



**Impact of Idol Immersion during Durga Puja on Water Quality of Aquatic Bodies-2024**

Date of Monitoring	Location*	Time of sample collection	pH	EC, $\mu\text{S/cm}$	Turb, NTU	TSS, mg/L	DO, mg/L	BOD, mg/L	COD, mg/L	TDS, mg/L	Cl <sup>-</sup> , mg/L	Alk. as CaCO <sub>3</sub> , mg/L	TH as CaCO <sub>3</sub> , mg/L	Ca, mg/L	Mg, mg/L
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	10:15 AM	7.1	280	7.8	17	8.2	1.8	7.5	171	14.0	80	80	28.86	1.94
	Location-2	12:45 PM	7.3	255	40	84	6.8	2.4	11	156	18.0	72	92	27.25	5.83
	Location-3	1:15 PM	7.5	250	7.3	16	9	1.6	7.5	153	10.0	88	88	25.65	5.83
	Location-4	5:10 PM	7.2	352	9.2	22	10.6	6.3	32	215	8.0	80	96	27.25	6.80
	Location-5	4:50 PM	7.2	360	6.5	14	1.5	35	54	220	34.0	84	96	28.86	5.83
	Location-6	3:00 PM	7.3	334	14	30	<0.3	50	94	204	30.0	100	112	28.86	9.72
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	9:45 AM	7.2	240	5.3	11	9	1.6	7.5	146	10.0	72	100	36.87	1.94
	Location-2	11:00 AM	7.3	230	10	23	6.8	2.4	11	140	12.0	80	92	32.06	2.92
	Location-3	11:40 AM	7.1	236	6.6	14	7.9	2.1	11	144	20.0	108	136	36.87	10.69
	Location-4	10:30 AM	7.4	360	35	72	1.2	3.5	15	220	12.0	132	104	28.86	7.78
	Location-5	12:10 PM	7.6	330	9.2	19	2.4	4.2	22	201	20.0	104	108	35.27	4.86
	Location-6	12:50 PM	7.2	326	13	28	2.2	3.5	18	199	20	116	132	35.27	10.69
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			<b>6.5-8.5</b>	-	-	-	<b>4.0, min</b>	<b>3.0, max</b>	-	<b>1500</b>	<b>600</b>	-	-	-	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>															
Acceptable limit			<b>6.5-8.5</b>	-	<b>1</b>	-	-	-	-	<b>500</b>	<b>250</b>	<b>200</b>	<b>200</b>	<b>75</b>	<b>30</b>
Permissible limit			<b>No relax</b>	-	<b>5</b>	-	-	-	-	<b>2000</b>	<b>1000</b>	<b>600</b>	<b>600</b>	<b>200</b>	<b>100</b>

Location-1 : U/s of immersion site  
 Location-2 : D/s of idol Immersion site  
 Location-3 : FD/s of idol immersion site  
 Location 4 : Temporary idol immersion site on the bank of Mahanadi River at Ring Road, Kacherighat  
 Location-5 : Temporary immersion site at Durgapali

Location-6 : Temporary immersion site at Golgunda  
 Location-7 : Temporary immersion site at Hirakud  
 Location-8 : Temporary immersion site at Cheruapada, Farm road  
 Location-9 : Temporary immersion site at Putibandh

**(b) With respect to Heavy metals**

Date of Monitoring	Location*	Time of sample collection	Cr <sup>+6</sup> , mg/L	T.Cr, mg/L	Cadmium (mg/L)	Nickel (mg/L)	Copper (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Mercury (mg/L)
Pre-Idol immersion (03.10.2024)	Location-1	3:50 PM	<0.002	0.003	0.0021	0.011	0.003	0.018	0.006	0.006	0.00080
	Location-2	4:45 PM	<0.002	0.003	0.0031	0.013	0.003	0.021	0.007	0.011	0.00080
	Location-3	5:00 PM	<0.002	0.002	0.0028	0.016	0.004	0.019	0.006	0.011	0.00080
	Location-4	2:10 PM	<0.002	0.002	0.0026	0.021	0.004	0.018	0.006	0.005	0.00080
	Location-5	1:40 PM	<0.002	0.003	0.0023	0.019	0.006	0.018	0.005	0.007	0.00060
	Location-6	12:30 PM	<0.002	0.003	0.0028	0.017	0.003	0.019	0.005	0.006	0.00060
	Location-7	3:28 PM	<0.002	0.005	0.0031	0.014	0.003	0.015	0.005	0.006	0.00080
	Location-8	4:28 PM	<0.002	0.003	0.0026	0.020	0.004	0.021	0.006	0.004	0.00080
	Location-9	5:30 PM	<0.002	0.003	0.0030	0.015	0.002	0.013	0.006	0.005	0.00080
During-Idol immersion (15.10.2024)	Location-1	2:35 PM	<0.002	0.002	0.0028	0.013	0.003	0.024	0.006	0.005	0.00060
	Location-2	2:56 PM	<0.002	0.005	0.0030	0.015	0.003	0.028	0.008	0.006	0.00060
	Location-3	3:45 PM	<0.002	0.005	0.0024	0.017	0.003	0.022	0.004	0.007	0.00060
	Location-4	3:20 PM	<0.002	0.003	0.0239	0.073	0.045	1.694	0.029	0.049	0.00120
	Location-5	2:10 PM	<0.002	0.003	0.0233	0.064	0.040	0.455	0.028	0.044	0.00120
	Location-6	1:35 PM	<0.002	0.005	0.0163	0.065	0.041	0.725	0.034	0.044	0.00140
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	11:50 AM	<0.002	0.002	0.0024	0.017	0.004	0.024	0.007	0.008	0.00080
	Location-2	9:57 AM	<0.002	0.005	0.0024	0.025	0.003	0.030	0.006	0.009	0.00080
	Location-3	11:30 AM	<0.002	0.003	0.0026	0.014	0.003	0.028	0.005	0.005	0.00080
	Location-4	10:15 AM	<0.002	0.007	0.0240	0.065	0.041	2.156	0.031	0.060	0.00160
	Location-5	12:20 PM	<0.002	0.005	0.0240	0.068	0.041	1.756	0.030	0.053	0.00140
	Location-6	12:45 PM	<0.002	0.005	0.0233	0.064	0.056	1.581	0.035	0.050	0.00160
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	10:15 AM	<0.002	0.003	0.0030	0.014	0.003	0.036	0.008	0.004	0.00060
	Location-2	10:38 AM	<0.002	0.005	0.0033	0.015	0.003	0.038	0.009	0.005	0.00060
	Location-3	11:40 AM	<0.002	0.003	0.0029	0.015	0.005	0.035	0.010	0.005	0.00060
	Location-4	10:59 AM	<0.002	0.009	0.0230	0.053	0.050	2.656	0.040	0.068	0.00160
	Location-5	12:35 PM	<0.002	0.007	0.0234	0.050	0.052	1.956	0.041	0.071	0.00140
	Location-6	12:56 PM	<0.002	0.007	0.0239	0.049	0.053	2.156	0.043	0.079	0.00160



**Impact of Idol Immersion during Durga Puja on Water Quality of Aquatic Bodies-2024**

Date of Monitoring	Location*	Time of sample collection	Cr+6, mg/L	T.Cr, mg/L	Cadmium (mg/L)	Nickel (mg/L)	Copper (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Mercury (mg/L)
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	10:15 AM	<0.002	0.002	0.0026	0.013	0.002	0.013	0.006	0.005	0.00080
	Location-2	12:45 PM	<0.002	0.003	0.0029	0.014	0.004	0.014	0.007	0.007	0.00080
	Location-3	1:15 PM	<0.002	0.003	0.0028	0.015	0.004	0.013	0.004	0.008	0.00080
	Location-4	5:10 PM	<0.002	0.005	0.0226	0.085	0.042	1.128	0.035	0.067	0.00180
	Location-5	4:50 PM	<0.002	0.005	0.0233	0.073	0.036	1.140	0.034	0.077	0.00180
	Location-6	3:00 PM	<0.002	0.005	0.0241	0.061	0.029	1.178	0.030	0.081	0.00160
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	9:45 AM	<0.002	0.002	0.0030	0.013	0.002	0.013	0.009	0.005	0.00080
	Location-2	11:00 AM	<0.002	0.002	0.0033	0.013	0.003	0.014	0.011	0.007	0.00080
	Location-3	11:40 AM	<0.002	0.002	0.0029	0.014	0.004	0.014	0.007	0.006	0.00080
	Location-4	10:30 AM	<0.002	0.005	0.0236	0.086	0.037	1.188	0.033	0.163	0.00200
	Location-5	12:10 PM	<0.002	0.005	0.0228	0.075	0.036	1.198	0.033	0.166	0.00160
	Location-6	12:50 PM	<0.002	0.005	0.0234	0.063	0.037	1.153	0.035	0.176	0.00140
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>	-	-	<b>0.05</b>	-	<b>0.01</b>	-	<b>1.5</b>	-	<b>0.1</b>	<b>15</b>	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>											
Acceptable limit	-	-	<b>0.05</b>	<b>0.003</b>	<b>0.02</b>	<b>0.05</b>	<b>0.1</b>	<b>0.01</b>	<b>5</b>	<b>0.001</b>	
Permissible limit	-	-	<b>No relaxation</b>	<b>No relaxation</b>	<b>No relaxation</b>	<b>1.5</b>	<b>0.3</b>	<b>No relaxation</b>	<b>15</b>	<b>No relaxation</b>	

Location-1 : U/s of immersion site  
 Location-2 : D/s of idol Immersion site  
 Location-3 : FD/s of idol immersion site  
 Location 4 : Temporary idol immersion site on the bank of Mahanadi River at Ring Road, Kacherighat  
 Location-5 : Temporary immersion site at Durgapali

Location-6 : Temporary immersion site at Golgunda  
 Location-7 : Temporary immersion site at Hirakud  
 Location-8 : Temporary immersion site at Cheruapada, Farm road  
 Location-9 : Temporary immersion site at Putibandh

**Table- 11 Impact of idol immersion during Durga Puja on water quality of Ponds in Balangir Municipality**

**(a) With respect to Physico-chemical parameters**

Date of Monitoring	Location*	Time of sample collection	pH	EC, $\mu\text{S/cm}$	Turb, NTU	TSS, mg/L	DO, mg/L	BOD, mg/L	COD, mg/L	TDS, mg/L	Cl <sup>-</sup> , mg/L	Alk. as CaCO <sub>3</sub> , mg/L	TH as CaCO <sub>3</sub> , mg/L	Ca, mg/L	Mg, mg/L
During-Idol immersion (14.10.2024)	Location-1	5:10 PM	7.3	345	13	28	6.9	2.1	15	210	20.0	180	160	46.49	10.69
	Location-2	5:20 PM	7.4	640	11	25	9.2	2.6	11	390	139.9	184	224	54.51	21.38
	Location-3	5:40 PM	7.2	635	40	81	6.4	1.9	15	387	119.9	108	176	44.89	15.55
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	12:18 PM	7.5	410	9.6	25	6.1	2.8	19	250	20.0	164	184	43.29	18.47
	Location-2	12:37 PM	7.6	710	21	44	8.9	3.5	15	433	139.9	188	200	49.70	18.47
	Location-3	12:56 PM	7.7	630	16	39	5.7	2.9	15	384	159.9	108	172	38.48	18.47
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	11:09 AM	7.3	450	4.5	12	5.6	2.8	15	275	10.0	136	132	40.08	7.78
	Location-2	11:24 AM	7.3	740	11	24	9	3.9	22	451	139.9	180	188	60.92	8.75
	Location-3	11:39 AM	7.4	720	40	95	5.6	2.7	15	439	179.9	120	180	40.08	19.44
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	5:06 PM	7.4	380	9.2	22	6.4	1.9	15	232	10.0	140	120	38.48	5.83
	Location-2	5:21 PM	7.3	785	38	81	9.9	4.3	45	479	139.9	184	192	51.30	15.55
	Location-3	5:35 PM	7.2	735	31	64	7.5	2.8	15	448	139.9	124	168	36.87	18.47
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	3:24 PM	7.2	320	7.6	18	6.5	1.6	15	195	10	124	124	41.68	4.86
	Location-2	3:43 PM	7.4	770	16	32	6.7	4.8	45	470	119.9	188	200	57.72	13.61
	Location-3	3:59 PM	7.2	780	20	41	8.6	2.8	15	476	139.9	100	172	56.11	7.78
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>			<b>6.5-8.5</b>	-	-	-	<b>4.0, min</b>	<b>3.0, max</b>	-	<b>1500</b>	<b>600</b>	-	-	-	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>															
Acceptable limit			<b>6.5-8.5</b>	-	<b>1</b>	-	-	-	-	<b>500</b>	<b>250</b>	<b>200</b>	<b>200</b>	<b>75</b>	<b>30</b>
Permissible limit			<b>No relax</b>	-	<b>5</b>	-	-	-	-	<b>2000</b>	<b>1000</b>	<b>600</b>	<b>600</b>	<b>200</b>	<b>100</b>

Location-1 : Laxmi jor at Hatisalpara    Location-2 : Rani Bandh Pond at Tikarapada    Location-3 : Maharani Sagar, At-Tulsinagar



**With respect to Heavy metals**

Date of Monitoring	Location*	Time of sample collection	Cr <sup>+6</sup> , mg/L	T.Cr, mg/L	Cadmium (mg/L)	Nickel (mg/L)	Copper (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Mercury (mg/L)
During-Idol immersion (14.10.2024)	Location-1	5:10 PM	<0.002	0.003	0.0074	0.022	0.009	0.047	0.020	0.053	0.00120
	Location-2	5:20 PM	<0.002	0.002	0.0068	0.022	0.019	0.070	0.050	0.035	0.00160
	Location-3	5:40 PM	<0.002	0.003	0.0070	0.019	0.012	0.166	0.056	0.032	0.00120
Post (3 <sup>rd</sup> ) During-Idol immersion (17.10.2024)	Location-1	12:18 PM	<0.002	0.005	0.0078	0.036	0.022	0.049	0.049	0.126	0.00120
	Location-2	12:37 PM	<0.002	0.005	0.0079	0.013	0.022	0.091	0.050	0.081	0.00140
	Location-3	12:56 PM	<0.002	0.009	0.0074	0.024	0.021	0.100	0.054	0.203	0.00140
Post (5 <sup>th</sup> ) During-Idol immersion (19.10.2024)	Location-1	11:09 AM	<0.002	0.005	0.0070	0.035	0.022	0.215	0.051	0.040	0.00140
	Location-2	11:24 AM	<0.002	0.005	0.0072	0.034	0.016	0.151	0.058	0.027	0.00140
	Location-3	11:39 AM	<0.002	0.007	0.0070	0.033	0.018	0.154	0.060	0.179	0.00140
Post (7 <sup>th</sup> ) During-Idol immersion (21.10.2024)	Location-1	5:06 PM	<0.002	0.003	0.0068	0.034	0.021	0.153	0.056	0.049	0.00140
	Location-2	5:21 PM	<0.002	0.005	0.0067	0.032	0.022	0.126	0.058	0.030	0.00140
	Location-3	5:35 PM	<0.002	0.007	0.0067	0.038	0.020	0.138	0.060	0.087	0.00140
Post (9 <sup>th</sup> ) During-Idol immersion (23.10.2024)	Location-1	3:24 PM	<0.002	0.003	0.0061	0.033	0.020	0.146	0.056	0.048	0.00120
	Location-2	3:43 PM	<0.002	0.005	0.0058	0.031	0.021	0.124	0.057	0.029	0.00120
	Location-3	3:59 PM	<0.002	0.007	0.0058	0.032	0.019	0.123	0.059	0.077	0.00120
<b>Tolerance limit for Class-C surface water bodies (IS : 2296 (1982))</b>		-	<b>0.05</b>	-	<b>0.01</b>	-	<b>1.5</b>	-	<b>0.1</b>	<b>15</b>	-
<b>Drinking Water Specification (IS : 10500 (2012))</b>											
Acceptable limit		-	-	<b>0.05</b>	<b>0.003</b>	<b>0.02</b>	<b>0.05</b>	<b>0.1</b>	<b>0.01</b>	<b>5</b>	<b>0.001</b>

Location-1 : Laxmi jor at Hatisalpura    Location-2 : Rani Bandh Pond at Tikarapada    Location-3 : Maharani Sagar, At-Tulsinagar

## 7. Recommendations

- As the “**Odisha Prevention and Control of Water Pollution (Procedure for Immersion of Idol after Pujas) Rules, 2021**” is effective for whole of the State, the District Administration/ authorities of ULBs should take necessary action for effective implementation of the Rule during all pujas involving immersion of idols.
- District Administration/ authorities of ULBs may take awareness programme for the idol makers to register themselves with a declaration to make ecofriendly idols.
- District Administration should promote the idol makers/ idol manufactures for making ecofriendly idols.
- District Administration should identify the units manufacturing natural colours and make a coordination between the natural colour manufacturers and idol makers.
- As there will be massive need of natural colours to paint the idols and huge shift in the business of the small idol makers, the State Government should provide incentives to these natural colour manufacturers and idol makers, so that they can change their mind set and opt for painting the idols with natural colours.
- Puja Committee Organisers should use the idols made from natural clay only and colouring of the idols with natural colours.
- As Pujas like Ganesh Puja, Durga Puja, Saraswati Puja, Biswakarma Puja, Khudurukuni Puja are mostly observed in individual scale, promotion of idols made of natural clay and coloured with natural colours play a vital role in controlling of pollution. School children, young mass may be given major thrust for the awareness programs on ill impacts of idol immersion.
- Use of thermocol, single-use plastic materials for decoration purpose, Prasad distribution/ sevans purposes should be prohibited as use of single-use plastic have already been banned in the country.
- Adequate number and size of ponds shall be constructed by the local administration for idol immersion purpose and shall be informed to the Puja Committee Organisers with route map.
- Public and individual house holders, resident welfare associations may be encouraged to immerse their idols in these earmarked ponds.
- Resident welfare associations may construct temporary idol immersion ponds in their premises for such purpose. Immersion left overs from the ponds may be



recovered from the ponds and handed over to the municipal authorities for proper disposal. Water of the ponds may be used for gardening purpose.

- Awareness may be created among the individual house holders to immerse the idols and puja left overs in a bucket full of water and later the water may be used for gardening. Or else they may immerse their idols in the designated temporary immersion ponds created for the purpose.
- Municipal authorities shall cooperate the Puja Committee Organisers for removal of the left-over materials of the idol immersions from the immersion sites within 24 hours of immersion and transportation of these debris to the dumpsites.
- Treatment of temporary immersion pond water with lime and discharge of the settled water to main river channel.
- Burning of left-over materials of idol immersion on the banks of river should be prohibited.
- After discharge of water from the temporary immersion ponds, the empty space should be filled with sand.
- Public awareness shall be given more thrust on the ill-impacts of idol immersion and implementation of the Guidelines.
- Public awareness should be created to limit the size of idols and number of idols in a locality in order to decrease the waste load in the form of puja left-overs.

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## **ANNEXURES**



**Annexure-1**



E-mail : [paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org)  
Website : [www.ospcboard.org](http://www.ospcboard.org)

**STATE POLLUTION CONTROL BOARD, ODISHA**  
[DEPARTMENT OF FOREST, ENVIRONMENT AND CLIMATE CHANGE, GOVERNMENT OF ODISHA]  
Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,  
Bhubaneswar – 751 012

No. 12776

Dt. 14.08.2024

VI-SC(LEM)Proj.64 / 24-25

To

All Collectors and District Magistrates  
Odisha

Sub : Implementation of the Odisha Prevention and Control of Water Pollution (Procedure for Immersion of Idol after Pujas) Rules, 2021

Sir,

In inviting a reference to above cited letter, this is to inform that Central Pollution Control Board (CPCB) has directed to implement the "Revised Guidelines for Immersion of Idols- May 12, 2020" with effect from 01.01.2021. The guideline posted in Board's website may be downloaded using the weblink [http://ospcboard.org/wp-content/uploads/2020/06/295\\_1589273986\\_mediaphoto24365.pdf](http://ospcboard.org/wp-content/uploads/2020/06/295_1589273986_mediaphoto24365.pdf) for kind information. In the meantime, the State Government also has implemented the "Odisha Prevention and Control of Water Pollution (Procedure for immersion of idols after Pujas) Rules, 2021" vide No. 17937/FE dated 14.10.2021 which has also been uploaded in the Board's website (<http://ospcboard.org/wp-content/uploads/2021/10/FE-CC-Notification-on-Idol-Immersion-Rule.pdf>) and communicated to all for information. The Rules came into force from the date of publication in the Gazette Notification. Reports published by the Board on the impact of Idol Immersion on water quality of Aquatic bodies during Ganesh Puja and Durga Puja, 2023 may be downloaded from the Board's website (link (<https://ospcboard.odisha.gov.in/publications-reports/>)) for kind reference.

As the celebration of pujas like Ganesh Puja, Biswakarma Puja, Khudurukuni Puja, Durga Puja, Kali Puja, Gajalaxmi Puja and Saraswati Puja in which idol immersion is a part of activity, are going to start from the month of September in this year, it is requested to take proactive actions like yester years for effective implementation of the said Rule as well as CPCB Guidelines. Some of the major proactive action points are listed below .

- (1) Empaneling the Idol makers , Puja mandaps/Organizers
- (2) Ensuring the use of natural clay and biodegradable materials for manufacture of idols
- (3) Ensuring the use of natural dyes/ colours and biodegradable materials for decoration of idols.
- (4) No use of Plaster of Paris (POP), plastic and thermocol (polystyrene) in idol making, no use of toxic and non-biodegradable chemical dyes, oil paints and synthetic dye based paints for painting of the idols

Contd.../p.2



DSPCB-CL-MISC-0049-2023/11/2024

-2-

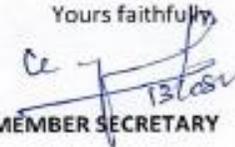
- (5) As far as possible low height idols shall be used and the height of the super structure of the idol shall be limited to 40 ft and the idol also shall be limited to 20 feet in height ;
- (6) Ban of Single use Plastic items at the place of worship.
- (7) Creation of temporary immersion/ artificial ponds in close proximity of a locality / residential areas for immersion of idols or on the bank of rivers.
- (8) Softcy measures to be taken at the banks of the rivers during immersion of idols as detailed in the guidelines.
- (9) Removal of bisarjan leftovers from the ponds/waterbodies within 24 hours of immersion and dumping them in identified municipal solid waste dumpsites.
- (10) Encourage individual households (for small idols) to immerse idols in a bucket of water. Otherwise, they can immerse in the identified temporary immersion ponds.
- (11) To consider the option for arrangement of movable artificial tanks to reach residential welfare societies where people can do idol immersion without crowding at the temporary immersion ponds. Such practice should be followed during Ganesh Puja, Khudurukuni Puja, Biswakarma Puja and Saraswati Puja as such pujas are also celebrated in household level also.
- (12) To create awareness among the public/Educational Institutes (for Ganesh Puja and Saraswati Puja / industrial units (for Viswakarma Puja) through daily newspaper/ electronic media/ sky advertisement balloons/ NGOs/ Puja Committees regarding use of eco-friendly idols during the pujas involving idol immersion and the penal provision mentioned in the Rule.

Further, Ministry of Jal Shakti has instructed to take following steps vide Office Memo dated 19.7.2024 (Copy enclosed) in compliance to the order/ directions dated 03.7.2024, passed by Hon'ble NGT in the matter of OA 793 of 2023 (issue relating to the throwing of flowers and garlands offered in Poojas in the ghats of River Yamuna and Ganga in polythene bags resulting in pollution of river water) that

1. The display boards may be placed on the bank of river at an appropriate distance (100 m from edge of the river) mentioning not to throw religious offering and making the general public aware about imposition of fine on violating it.
2. Mass awareness at school level be encouraged about impact of religious offering on rivers.
3. Attempt be made to restrict Religious offering 100 m away from the edge of river and along the bank and not in the river water to protect the river flood plain.
4. Collection and composting arrangements for treating organic waste such as flowers, fruits, leaves etc should be established at identified location to prevent open decomposition along the Ghats/ river stretches.

Action taken in this regard with related photographs may please be communicated to this end within one month of completion for each festive period .

Encl : As above

Yours faithfully,  
  
MEMBER SECRETARY  
Contd.. P/3

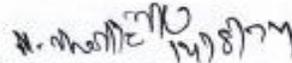


-3-

Memo No. 12777 /dt. 14.08.2024

Copy forwarded to the Chief Secretary-cum-Chairman, State Pollution Control Board, Odisha for kind information.

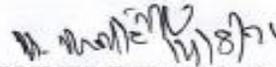
Encl : As above

  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12778 /dt. 14.08.2024

Copy forwarded to the Executive Director, Technical, National Mission for Clean Ganga, Dept. of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti, 1<sup>st</sup> Floor, Major Dhyan Chand National Stadium, New Delhi 110002 for kind information.

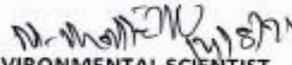
Encl : As above

  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12779 /dt. 14.08.2024

Copy forwarded to the Executive Director, Technical, National Mission for Clean Ganga, Dept. of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti, 1<sup>st</sup> Floor, Major Dhyan Chand National Stadium, New Delhi 110002 for kind information.

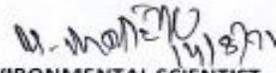
Encl : As above

  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12780 /dt. 14.08.2024

Copy forwarded to Sri P.K. Mishra, Divisional Head, WQM-I, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi 110032 for kind information.

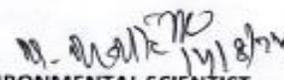
Encl : As above

  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12781 /dt. 14.08.2024

Copy forwarded to the Zonal Officer, Central Pollution Control Board, Eastern Zonal Office, Block 502, Southend Conclave, 5<sup>th</sup> and 6<sup>th</sup> Floor, 1582, Rajdanga Main Road, Kolkata-700107 for kind information.

Encl : As above

  
CHIEF ENVIRONMENTAL SCIENTIST

Contd ..P/4



-4-

Memo No. 12782 /dt. 14.08.2024

Copy forwarded to the Director, Env.-cum-Spl. Secy. to Government, Forest, Environment and Climate Change Department, Govt. of Odisha for kind information and necessary action.

Encl : As above

*[Signature]*  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12783 /dt. 14.08.2024

Copy forwarded to the Principal Secretary, H & UD Department, Govt. of Odisha for kind information and necessary action.

Encl : As above

*[Signature]*  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12784 /dt. 14.08.2024

Copy forwarded to the Revenue Divisional Commissioner, Central Division, Cuttack / Revenue Divisional Commissioner, Northern Division, Sambalpur/ Revenue Divisional Commissioner, Southern Division, Berhampur for kind information and necessary action.

Encl : As above

*[Signature]*  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12785 /dt. 14.08.2024

Copy forwarded to the Commissioner, Bhubaneswar Municipal Corporation / Cuttack Municipal Corporation / Rourkela Municipal Corporation / Berhampur Municipal Corporation / Sambalpur Municipal Corporation for kind information and necessary action.

Encl : As above

*[Signature]*  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12786 /dt. 14.08.2024

Copy forwarded to the Executive Officer of all Municipalities and NACs for kind information and necessary action.

Encl : As above

*[Signature]*  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12787 /dt. 14-08.2024

Copy forwarded to the Regional Offices of State Pollution Control Board, Angul, Balasore, Bhubaneswar, Berhampur, Balangir, Cuttack, Jharsuguda, Kalanganagar, Keonjhar, Koraput, Paradeep, Rayagada, Rourkela, Sambalpur for information and necessary action.

Encl : As above

*[Signature]*  
CHIEF ENVIRONMENTAL SCIENTIST



Tel/EPABX : 2653800  
E-mail: paribesh1@ospboard.org  
Web: www.ospboard.org

**STATE POLLUTION CONTROL BOARD, ODISHA**

(Department of Forest, Environment & Climate Change, Govt. of Odisha)

ParibeshBhawan, A/118, Nilakanthanagar, Unit-VIII

Bhubaneswar - 751012

No. 13805 /

I-Estt-(Misc)-187/2023 (Vol-II)

Dt. 30.08.24

[ipr.advt@gmail.com](mailto:ipr.advt@gmail.com)

To

The Director,  
I & PR Department,  
Bhubaneswar

Sub: Release of Advertisement in connection with Public Notice as an "Appeal to observe pollution free festivals".

Sir,

Enclosed please find the material for publication of advertisement in different daily newspapers (Only Odisha edition) covering a suitable size within **220** sq.cm. as per the details given below.

Release Date	To be released in	Release Date	To be released in
02.09.2024	Prameya & The Times of India	04.10.2024	Sambad & The New Indian Express
06.09.2024	Dharitri & The New Indian Express	08.10.2024	Dharitri & The Times Of India
10.09.2024	Sambad & One English Daily	12.10.2024	Samaj & One English Daily
14.09.2024	Samaj & One English Daily	16.10.2024	Pragativadi & One English Daily
18.09.2024	Pragativadi & One English Daily	20.10.2024	Samaya & One English Daily
22.09.2024	Samaya & One English Daily	24.10.2024	Sakala & One English Daily
26.09.2024	Sakala & One English Daily	28.10.2024	Sambad & One English Daily
30.09.2024	Prameya & One English Daily	31.10.2024	Dharitri & One English Daily

Please furnish the bill along with the published materials in triplicate for necessary payment.

Encl: As above.

Yours faithfully,

Sr. Administrative Officer

Memo No. 13806 /Dt. 30.08.24.

Copy forwarded to the CES, Central Lab, Patia / Accounts Section, State Pollution Control Board, Odisha, Bhubaneswar for information and necessary action.

Sr. Administrative Officer



E-mail : [paribesh1@ospcbboard.org](mailto:paribesh1@ospcbboard.org)  
Website : [www.ospcbboard.org](http://www.ospcbboard.org)

**STATE POLLUTION CONTROL BOARD, ODISHA**

[DEPARTMENT OF FOREST, ENVIRONMENT AND CLIMATE CHANGE, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,

Bhubaneswar - 751 012

No. 12893

Dt. 16.08.2024

VI-SC(LEM)Proj.64 (Vol-III) /24-25

To

Regional Offices

State Pollution Control Board, Odisha

Angul/ Balasore/ Balangir/ Bhubaneswar/ Berhampur/ Cuttack/ Jharsuguda/ Kalinganagar/ Keonjhar/  
Paradeep/ Rayagada/ Rourkela/ Sambalpur /Koraput

Sub : Circulation of Public Notice on "Appeal to Observe Pollution free Ganesh Puja, Biswakarma Puja,  
Khudurukuni Puja, Durga Puja, GajaLaxmi Puja, Kali Puja and Saraswati puja"

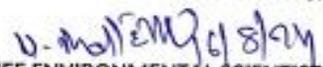
Sir,

In inviting a reference to the above cited subject, this is to inform that copies of the Public Notices (in English and Odia) on "Ganesh Puja, Biswakarma Puja, Khudurukuni Puja, Durga Puja, GajaLaxmi Puja, Kali Puja and Saraswati puja" are enclosed herewith for wide circulation among the stakeholders to create awareness during the ensuing puja festivals for effective implementation of the Odisha Prevention and Control of Water Pollution (Procedure for Immersion of Idol after Pujas) Rules, 2021.

Action taken in this regard may please be communicated to this end .

Encl : As above

Yours faithfully,

  
CHIEF ENVIRONMENTAL SCIENTIST



OSPCB-CL-MISC-0049-2023/12/2024



E-mail : [paribesh1@ospcboard.org](mailto:paribesh1@ospcboard.org)  
Website : [www.ospcboard.org](http://www.ospcboard.org)

**STATE POLLUTION CONTROL BOARD, ODISHA**

[DEPARTMENT OF FOREST, ENVIRONMENT AND CLIMATE CHANGE, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,  
Bhubaneswar – 751 012

No. 12980

Dt. 17.08.2024

VI-SC(LEM)Proj.64 / 24-25

To

All Collectors and District Magistrates  
Odisha

Sub : Compliance of the order/ directions dated 03.7.2024, passed by the Hon'ble National Green Tribunal (NGT) in the matter of OA No. 793/ 2023

Ref : Office Memorandum of Ministry of Jal Shakti dated 19.07.2024

Sir,

In inviting a reference to above, this is to inform that Ministry of Jal Shakti (MoJS) has instructed to submit the compliance of the Order/ directions dated 03.7.2024, passed by Hon'ble NGT in the matter of OA 793 of 2023 (issue relating to the throwing of flowers and garlands offered in Poojas in the ghats of River Yamuna and Ganga in polythene bags resulting in pollution of river water), Copy of the order dated 03.7.2024 alongwith MOJS is enclosed herewith for kind reference. The Hon'ble NGT vide aforesaid order has inter-alia directed that in order to effectively tackle the problem and proper implementation of order already passed, the following further steps be taken :-

- a. The display boards may be placed on the bank of river at an appropriate distance (100 m from edge of the river) mentioning not to throw religious offering and making the general public aware about imposition of fine on violating it.
- b. Mass awareness at school level be encouraged about impact of religious offering on rivers.
- c. Attempt be made to restrict Religious offering 100 m away from the edge of river and along the bank and not in the river water to protect the river flood plain.
- d. The authorities to identify suitable locations at appropriate locations at appropriate places along the river stretch for developing a dedicated Ghat where various religious ceremonies/ rituals can be undertaken including idol immersion, pujas. These Ghats should have all arrangements for the said purposes. Routine monitoring should be undertaken to ensure that religious offering are properly managed without hurting religious feelings and sentiments. Each Ghat/ location should have distinct plan and actions taken with respect to :
  - i. Idol immersion
  - ii. Collection, storage, processing of flowers, coconut and other offerings by Temples, individually or collectively.
  - iii. Controlling and preventing direct/indirect disposal (visarjan) of offerings into river which is from bridges, drains or on Ghats,etc.



OSPCB-CL-MISC-0049-2023/15/2024



-2-

- iv. Collection and composting arrangements for treating the organic waste such as flowers, fruits, leaves, food material etc. should be established at identified location to prevent open decomposition along the Ghats/ river stretches.

Therefore, it is requested to ensure that

- The orders issued by Hon'ble NGT are fully complied with
- To mark spots, stretches, sites etc. prone to such activities which cause pollution in the river and take steps for full compliance of the directions of Hon'ble NGT
- To carry out monthly monitoring of all relevant spots, stretches, sites etc, which are prone to throwing of the flowers and garlands offered in puja and immersion of idols by deploying ground level staff and supervising the same;
- To organize awareness camps and take all steps to make the general people aware in respect of the pollution being caused in the river by throwing such samagri.

The actions/ steps taken shall be disclosed by submitting the monthly and annual reports to the National Mission for Clean Ganga(NMCG)# ([ed-technical@nmcg.nic.in](mailto:ed-technical@nmcg.nic.in)). Relevant extract of such report(s) shall be sent to the Registrar General of the NGT (PB) for next six months by email at [judicial-ngt@gov.in](mailto:judicial-ngt@gov.in) preferably in the form of searchable PDF/OCR Support PDF to ensure/ ascertain the status of compliance. Copy of the report submitted may also be submitted to the undersigned for reference.

Yours faithfully,

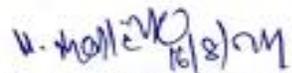
Encl : As above

  
MEMBER SECRETARY

Memo No. 12981 /dt. 17.08.2024

Copy forwarded to the Chief Secretary-cum-Chairman, State Pollution Control Board, Odisha for kind information.

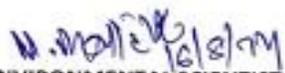
Encl : As above

  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12982 /dt. 17.08.2024

Copy forwarded to the Executive Director, Technical, National Mission for Clean Ganga, Dept. of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti, 1<sup>st</sup> Floor, Major Dhyan Chand National Stadium, New Delhi 110002 for kind information.

Encl : As above

  
CHIEF ENVIRONMENTAL SCIENTIST

Contd ..p/3



-3-

Memo No. 12983 /dt. 17.08.2024

Copy forwarded to Sri P.K. Mishra, Divisional Head, WQM-I, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi 110032 for kind information.

Encl : As above

*D. Mahapatra*  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12984 /dt. 17.08.2024

Copy forwarded to the Zonal Officer, Central Pollution Control Board, Eastren Zonal Office, Block 502, Southend Conclave, 5<sup>th</sup> and 6<sup>th</sup> Floor , 1582, Rajdanga Main Road, Kolkata-700107 for kind information.

Encl : As above

*D. Mahapatra*  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12985 /dt. 17.08.2024

Copy forwarded to the Director, Env.-cum-Spl. Secy. to Government, Forest, Environment and Climate Change Department, Govt. of Odisha for kind information and necessary action.

Encl : As above

*D. Mahapatra*  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12986 /dt. 17.08.2024

Copy forwarded to the Principal Secretary, H & UD Department, Govt. of Odisha for kind information and necessary action.

Encl : As above

*D. Mahapatra*  
CHIEF ENVIRONMENTAL SCIENTIST

Contd..p/4



-4-

Memo No. 12987 /dt.....

Copy forwarded to the Commissioner, Bhubaneswar Municipal Corporation / Cuttack Municipal Corporation / Rourkela Municipal Corporation / Berhampur Municipal Corporation / Sambalpur Municipal Corporation for kind information and necessary action.

Encl : As above

*[Handwritten Signature]*  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12988 /dt.....

Copy forwarded to the Executive Officer of all Municipalities and NACs for kind information and necessary action.

Encl : As above

*[Handwritten Signature]*  
CHIEF ENVIRONMENTAL SCIENTIST

Memo No. 12989 /dt.....

Copy forwarded to the Regional Offices of State Pollution Control Board, Angul, Balasore, Bhubaneswar, Berhampur, Balangir, Cuttack, Jharsuguda, Kalinganagar, Keonjhar, Koraput, Paradeep, Rayagada, Rourkela, Sambalpur for information and necessary action.

Encl : As above

*[Handwritten Signature]*  
CHIEF ENVIRONMENTAL SCIENTIST



Annexure-5



Email-[rospcb.berhampur@ospcbboard.org](mailto:rospcb.berhampur@ospcbboard.org)  
[www.ospcbboard.org](http://www.ospcbboard.org)

**REGIONAL OFFICE**  
**STATE POLLUTION CONTROL BOARD, ODISHA**  
(DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVT. OF ODISHA)  
2<sup>nd</sup> Floor, New Division Office, IDCO, Berhampur Division  
Industrial Estate, Berhampur, Dist- Ganjam - 760008, Odisha, India.

No. 4026 /Legal (Misc)-01/2015

DI. 08/10/2024  
Speed Post/e-dispatch

To

The Chief Environmental Scientist,  
Central Laboratory,  
State Pollution Control Board, Odisha  
Plot No. B-59/2 & 3, Chandaka Industrial Estate, Patia,  
Bhubaneswar.

**Sub: Submission of action taken report on effective Implementation of the "Odisha Prevention and Control of Water Pollution (Procedure for Immersion of Idol after Pujas) Rules, 2021" -reg.**

Sir,

With reference to the subject cited above, the action taken report on effective Implementation of the "Odisha Prevention and Control of Water Pollution (Procedure for Immersion of Idol after Pujas) Rules, 2021" during festive season 2024 (after Ganesh Puja -2024) is enclosed for favor of kind information and necessary action.

**Encl: As above**

Yours faithfully,

  
Regional Officer

ms  
10

**ACTION TAKEN REPORT ON**

**IMPLEMENTATION OF THE " ODISHA PRESERVATION AND CONTROL OF WATER POLLUTION ( PROCEDURE FOR IMMERSION OF IDOLS AFTER PUJAS) RULES, 2021**

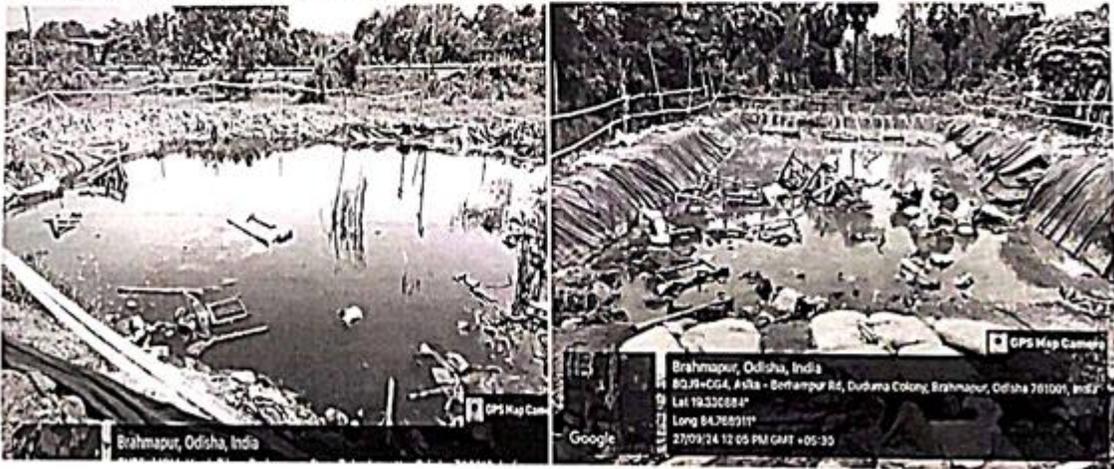
The Berhampur Municipal Corporation (BeMC), Berhampur, Dist- Ganjam has constructed 4 numbers of temporary idol immersion ponds for immersing idols on the festive occasion such as Ganesh Puja , Khudurikuni Puja, Biswakarma Puja, Durga Puja, Gajalaxmi Puja & Kali Puja -2024.

1. Tentative size of each pond and number of idols immersed in each pond after Ganesh Puja , Khudurikuni Puja, Biswakarma Puja, Durga Puja, Gajalaxmi Puja & Kali Puja for the year 2024 are mentioned in Table -1 as follows:

**Table -1:**

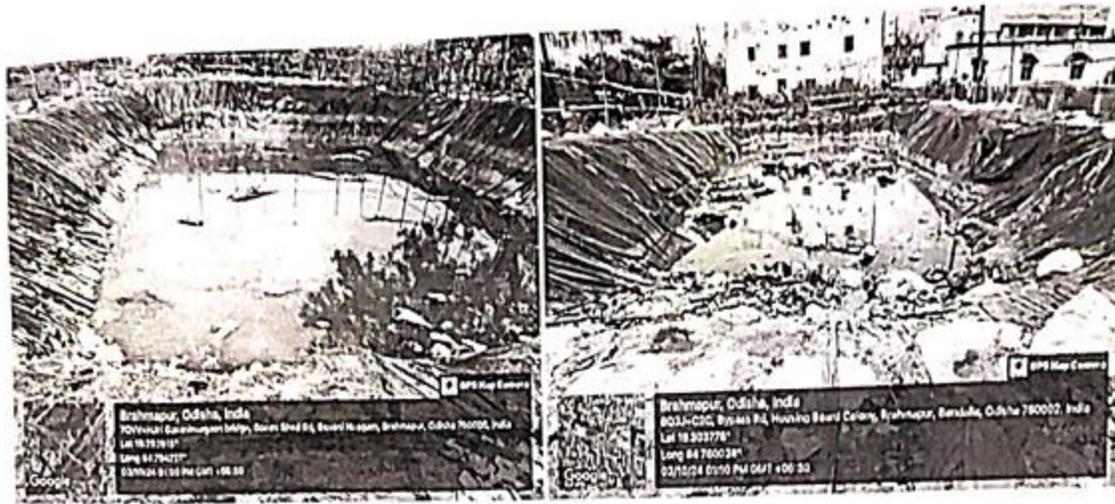
SI No.	Location of Temporary Idol Immersion Pond	Size (l×b×h)	Number of idols immersed during Ganesh puja, Biswakarma Puja & Khudurikuni puja
01.	Sishu Mandir Front Road (Below Gosaninuagaon over bridge)	72'×26'×9'	30 (Aprrox)
02.	First gate Teli Masani (Near Haridakhandi main road)	30'×50'×9'	25 (Aprrox)
03.	Near Meenakhi Nagar main road	72'×26'×6'	27 (Aprrox)
04.	Vivek Bihar, Ambapua	70'×60'×6'	42 (Aprrox)

2. Photographs of temporary immersion ponds as physical evidence of the implementation of the act



(a)

(b)



(c)

(d)

(Fig 1: Temporary pond constructed by BeMC (a) Near Ambapua Main Road, Vivek Vhiar (b) Near Haridakhandi Main Road (1<sup>st</sup> gate Teli Masani), (c) Below Gosaninuagaon Over Bridge (Sishu Mandir Front Gate) (d) Near Meenakhi Nagar Main Road)

**3. Status of Temporary ponds after immersion:**

These temporary idol immersion ponds constructed by Berhampur Municipal Corporation (BeMC), Berhampur will also be used for the immersion of idols during Durga Puja, Gajalaxmi Puja & Kali Puja. Concerned authorities were being requested, vide this Office letter No. – 3669 dtd. 06.09.2024 to be vigilant about effective implementation of above rule. It was learnt that, after immersion of idols of Durga Puja, Gajalaxmi Puja & Kali Puja, BeMC will completely remove the solid materials from the temporary ponds for shifting to Solid Waste Management site of BeMC. They will add lime for the treatment of water and subsequently after 3<sup>rd</sup> day of treatment, all 4 nos. of temporary ponds mentioned in Table -1 will be filled up with soil.

*Trilochan Senapati*

Sri Trilochan Senapati, JLA  
S.P.C Board, Berhampur

*Punam Behera*  
09/10/2024

Miss Punam Behera, AES  
S.P.C Board, Berhampur



**Annexure-6**



email: [ospcb.paradeep@ospcbboard.org](mailto:ospcb.paradeep@ospcbboard.org)  
website: [www.ospcbboard.org](http://www.ospcbboard.org)

**ଆଞ୍ଚଳିକ କାର୍ଯ୍ୟାଳୟ**  
**ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ, ପାରାଦ୍ୱୀପ, ଓଡ଼ିଶା**  
(ଜଳୀୟ ପରିବେଶ ଓ ଜଳବାୟୁ ପରିବର୍ତ୍ତନ ବିଭାଗ ଓଡ଼ିଶା ସରକାର)  
ପ୍ରଥମ ମହଲା, ସି.ଏମ. ସି.ଇ ଭବନ, ସମୁଦ୍ର ବୁଲ ରାସ୍ତା, ନୂଆଖଣ୍ଡୁଚ, ପାରାଦ୍ୱୀପ,  
ଜଗତସିଂହପୁର - ୭୫୫୧୧୨

ଫିଲ ନଂ: ୧୫୦୮ / RO/PDP/MISC/ (GEN)-26

ତାରିଖ ୦୨.୧୧.୨୦୨୪  
ବିତ୍ତ ସେକ୍ସ ଦ୍ୱାରା / ୩-୩୩୩

ଶ୍ରୀ ପୁଷ୍ପର ଚନ୍ଦ୍ର ବେହେରା  
ଆଞ୍ଚଳିକ ଅଧିକାରୀ

ପ୍ରାପ୍ତପୁ

ପୁଷ୍ପ ପରିବେଶ ବୈଜ୍ଞାନିକ  
କେନ୍ଦ୍ରୀୟ ପରୀକ୍ଷାଗାର  
ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ, ଓଡ଼ିଶା  
ଭୁବନେଶ୍ୱର

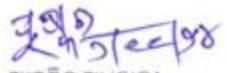
ବିଷୟ- ଆଞ୍ଚଳିକ କାର୍ଯ୍ୟାଳୟ, ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ, ପାରାଦ୍ୱୀପ ଅଧୀନରେ ଥିବା ପୌରପାଳିକା ଗୁଡ଼ିକ ଦ୍ୱାରା "ଓଡ଼ିଶା ଜଳ ପ୍ରଦୂଷଣ ନିବାରଣ ଏବଂ ନିୟନ୍ତ୍ରଣ (ମୂର୍ଚ୍ଛିତ ବିସର୍ଜନ ପ୍ରଣାଳୀ) ନିୟମ-୨୦୨୧ ପାଳନର ପ୍ରଭାବଶାଳୀ କାର୍ଯ୍ୟକାରୀତାର ସୂଚନା ପତ୍ର

ମହାଶୟ,

ଆଞ୍ଚଳିକ କାର୍ଯ୍ୟାଳୟ, ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ, ପାରାଦ୍ୱୀପ ଅଧୀନରେ ଥିବା ପୌରପାଳିକା ଗୁଡ଼ିକ ଦ୍ୱାରା "ଓଡ଼ିଶା ଜଳ ପ୍ରଦୂଷଣ ନିବାରଣ ଏବଂ ନିୟନ୍ତ୍ରଣ (ମୂର୍ଚ୍ଛିତ ବିସର୍ଜନ ପ୍ରଣାଳୀ) ନିୟମ-୨୦୨୧ ପାଳନର ପ୍ରଭାବଶାଳୀ କାର୍ଯ୍ୟକାରୀତାର ସୂଚନା ପତ୍ର ଆପଣଙ୍କ ଅବଗତ ଓ ଆବଶ୍ୟକ ପଦକ୍ଷେପ ନିମନ୍ତେ ପ୍ରେରଣ କରାଗଲା ।

ଉପର ଲିଖିତ ପ୍ରକାରେ: ସଂଲଗ୍ନ

ଆପଣଙ୍କ ବିଶ୍ୱସ୍ତ

  
ଆଞ୍ଚଳିକ ଅଧିକାରୀ

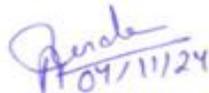
**Action taken report on idol immersion during Ganesh Puja, Viswakarma Puja, Durga Puja and Gajalaxmi Puja under the jurisdiction of Regional Office, SPCB, Paradeep**

Ganesh Puja, Viswakarma Puja, Durga Puja and Gajalaxmi Puja were celebrated in the districts of Jagatsinghpur and Kendrapara. For immersion of idols, temporary ponds were provided by the respective Municipalities. The idols were immersed in the temporary ponds which had earthen bunds with bamboo barricades and were lined with high-density polyethylene (HDPE) sheets from all sides. All the leaves, flowers, ornaments and other decorating materials were removed before the immersion of idols. After the immersion of idols, the settled solid waste was removed and transported to the municipality landfill site. Bleaching powder was added in the temporary ponds for the treatment of water. The Municipal Authorities and Police Authorities of both the districts continuously monitored the entire process for hassle free process of idol immersion.

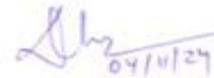
Details on immersion pond provided by different Municipalities under the jurisdiction of Regional Office, SPC Board, Paradeep is as follows:

- 01. Paradeep Municipality, Dist-Jagatsinghpur:** - There was only one immersion pond in Paradeep near Nuabazar.
- 02. Jagatsinghpur Municipality, Dist-Jagatsinghpur:-** There were four idol immersion sites in Jagatsinghpur namely Galupada, Purohitpur, and two sites near stadium road.
- 03. Kendrapara Municipality, Dist-Kendrapara:-** There were three idol immersion sites in Kendrapada at namely Shani Ghat, near Police Station and Kajala.
- 04. Patatamundai Municipality, Dist-Kendrapara:-** There was only one immersion pond in Balipada, Pattamundai, Kendrapara.

Idol immersion had taken place in the above mentioned manner and some of the photographs of idol immersion is enclosed as Annexure-I.



Mrs. A. Panda  
Asst. Env. Scientist



Mr. D. L. Mahapatra  
Dy. Env. Engineer

### Annexure-I

A few photographs of the idol immersion ponds.



Photo: Paradeep Municipality



Photo: Paradeep Municipality



Photo: Paradeep Municipality



Photo:Pattamundai Municipality



Photo: Pattamundai Municipality



Photo: Pattamundai Municipality



Photo: Jagatsinghpur Municipality



Photo: Jagatsinghpur Municipality



Photo: Jagatsinghpur Municipality



Photo: Kendrapara Municipality



Photo: Kendrapara Municipality



ଇ-ମେଲ : rospcb.rourkela@ospboard.org  
ୱେବସାଇଟ : www.ospboard.org



**ଆଞ୍ଚଳିକ କାର୍ଯ୍ୟାଳୟ, ରାଉରକେଲା**  
**ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ଼, ଓଡ଼ିଶା,**  
(ଜଙ୍ଗଲ, ପରିବେଶ ଏବଂ ଜଳବାୟୁ ପରିବର୍ତ୍ତନ ବିଭାଗ, ଓଡ଼ିଶା ସରକାର)  
ହକି ଛକ ନିକଟ, ପାନପୋଷ, ରାଉରକେଲା, ଜିଲ୍ଲା- ସୁନ୍ଦରଗଡ଼-୭୬୯୦୦୪

ପତ୍ର ସଂଖ୍ୟା ୪୮୫୭

ତା ୧୧/୧୦/୨୪

ପ୍ରେରକ

ଡଃ ଅନୁପ କୁମାର ମଲିକ,  
ଅତିରିକ୍ତ ମୁଖ୍ୟ ପରିବେଶ ବୈଜ୍ଞାନିକ ଓ ଆଞ୍ଚଳିକ ଅଧିକାରୀ

ପ୍ରାପ୍ତେଷୁ,

ମୁଖ୍ୟ ପରିବେଶ ବିଜ୍ଞାନୀ (କେନ୍ଦ୍ରୀୟ ପ୍ରୟୋଗଶାଳା),  
କେନ୍ଦ୍ରୀୟ ପ୍ରୟୋଗଶାଳା, ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ଼, ଓଡ଼ିଶା,  
ଭୁବନେଶ୍ୱର.

ବିଷୟ: ଦଶହରା ଏବଂ ଦୁର୍ଗା ପୂଜା ସମୟରେ ମୂର୍ତ୍ତି ବିସର୍ଜନ ପାଇଁ ସଂଶୋଧିତ ନିର୍ଦ୍ଦେଶାବଳୀ ଗୁଡ଼ିକର  
ପ୍ରଭାବଶାଳୀ କାର୍ଯ୍ୟକାରୀତା ଉପରେ ନିଆଯାଇଥିବା କାର୍ଯ୍ୟାନୁଷ୍ଠାନ ବିବରଣୀ ଦାଖଲ ସମ୍ବନ୍ଧରେ ।  
ସନ୍ଦର୍ଭ: କେନ୍ଦ୍ରୀୟ ପ୍ରୟୋଗଶାଳା ଚିଠି ନମ୍ବର ୧୪୦୧୯ (୧୪), ତା.୦୩-୯-୨୦୨୪ ରିଖା ।

ମହାଶୟ,

ଉପରୋକ୍ତ ବିଷୟ ଏବଂ ସନ୍ଦର୍ଭ ଚିଠି ପରିପ୍ରେକ୍ଷୀରେ, ଦଶହରା ଏବଂ ଦୁର୍ଗା ପୂଜା ସମୟରେ ମୂର୍ତ୍ତି ବିସର୍ଜନ  
ସମୟରେ ବିସର୍ଜନଜନିତ ଜଳ ପ୍ରଦୂଷଣ କୁ ରୋକିବା ପାଇଁ ଏବଂ ଏହି ପରିପ୍ରେକ୍ଷୀରେ ଥିବା ନିୟମ ର ଅନୁଯାୟୀ ପାଇଁ  
ନିଆଯାଇଥିବା କାର୍ଯ୍ୟାନୁଷ୍ଠାନ ଗୁଡ଼ିକ ନିମ୍ନଲିଖିତ ଅଟେ:

- ୧. ବିଭିନ୍ନ ପୂଜା କମିଟି ଏବଂ ମଣ୍ଡପଗୁଡ଼ିକୁ ପ୍ରଦୂଷଣମୁକ୍ତ ପୂଜାପାଠ ପାଇଁ ଲିଫ୍‌ଲେଟ୍ ବଣ୍ଟନ କରାଯାଇଥିଲା ।
- ୨. ସୁନ୍ଦରଗଡ଼ର ଏବଂ ବେଠଗଡ଼ ଜିଲ୍ଲାର ସମସ୍ତ ମ୍ୟୁନିସିପାଲିଟି ଏବଂ ରାଉରକେଲା ମହାନଗର ନିଗମ କୁ ଦଶହରା  
ଏବଂ ଦୁର୍ଗା ପୂଜା ସମୟରେ ମୂର୍ତ୍ତି ବିସର୍ଜନ ସମୟରେ ବିସର୍ଜନଜନିତ ଜଳ ପ୍ରଦୂଷଣ କୁ ରୋକିବା ପାଇଁ ଏବଂ ଏହି  
ପରିପ୍ରେକ୍ଷୀରେ ଥିବା ନିୟମ ର ଅନୁଯାୟୀ ପାଇଁ ଚିଠି ନମ୍ବର ୪୫୯୩, ତା ୦୩.୧୦.୨୦୨୪ ରିଖା ରେ ଆଞ୍ଚଳିକ  
କାର୍ଯ୍ୟାଳୟ, ରାଉରକେଲା ଚରଫରୁ ଚିଠି କରାଯାଇଥିଲା ।
- ମୂର୍ତ୍ତି ବିସର୍ଜନ ସମୟରେ ଏବଂ ସମସ୍ତ ମ୍ୟୁନିସିପାଲିଟି ଏବଂ ରାଉରକେଲା ମହାନଗର ନିଗମ ଦ୍ୱାରା ନିର୍ମିତ କୃତ୍ରିମ  
ପୋଖରୀ ଗୁଡ଼ିକର ଫଟୋଗ୍ରାଫର ବିବରଣୀ ଏଠାରେ ସଂଲଗ୍ନ କରାଯାଇଛି । ଏହା ଆପଣଙ୍କ ଅବଗତ ଏବଂ ବିହିତ ପଦକ୍ଷେପ  
ନିମନ୍ତେ ପ୍ରେରଣ କରାଗଲା ।

ଆପଣଙ୍କର ବିଶ୍ୱସ୍ତ

ଉପରିକ୍ତ ସଂଲଗ୍ନ

*ଅନୁପ ମଲିକ*  
ଆଞ୍ଚଳିକ ଅଧିକାରୀ

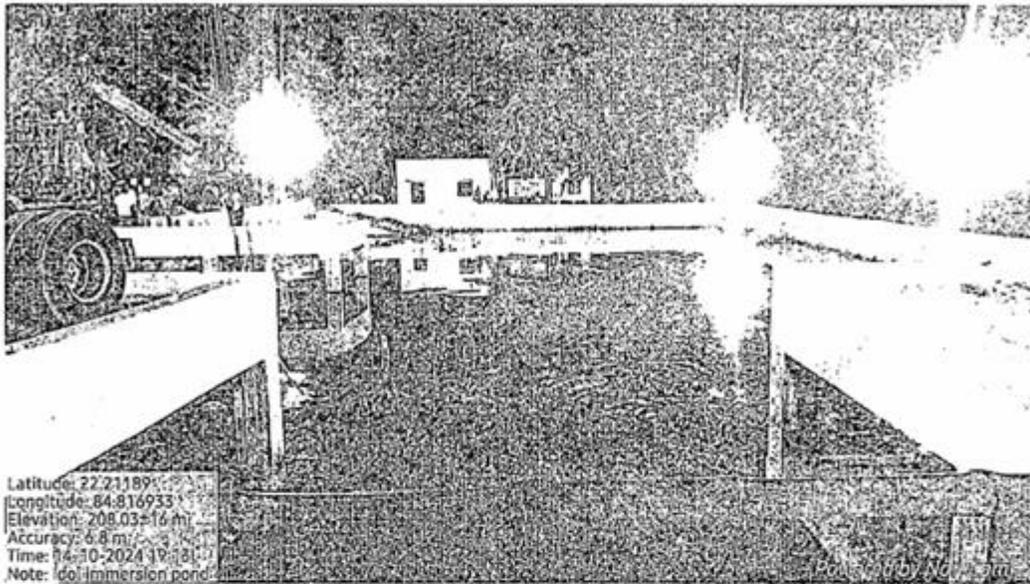
ଆଞ୍ଚଳିକ କାର୍ଯ୍ୟାଳୟ, ରାଉରକେଲା ଦ୍ୱାରା ମୂର୍ତ୍ତି ବିସର୍ଜନ ସମୟରେ ବିସର୍ଜନକରିତ ଜଳ ପ୍ରଦୂଷଣ କୁ ରୋକିବା ପାଇଁ ନିଆଯାଇଥିବା ଆବଶ୍ୟକ ପଦକ୍ଷେପ ।

ଜିଲ୍ଲାର ନାମ	ମୁ୍ୟନିସିପାଲିଟି ଏବଂ ମହାନଗର ନିଗମ ର ନାମ	ସଂଖ୍ୟା ଏବଂ କୃତ୍ରିମ ପୋଖରୀ ର ଆକାର	ବିସର୍ଜନ କରାଯାଇଥିବା ପ୍ରତିମାଗୁଡ଼ିକର ସଂଖ୍ୟା ।
ସୁନ୍ଦରଗଡ଼	ସୁନ୍ଦରଗଡ଼ ପୌରପାଳିକା	ମହାଦେବପଡ଼ା ଗ୍ରାମ ନିକଟରେ ଥିବା ଇବ ନଦୀ କୂଳ : ବାଲିବନ୍ଧ ଥିବା ଏବଂ ଚାଉପୋଲିନ ଘୋଡ଼ାଯାଇଥିବା ଅସ୍ଥାୟୀ ପୋଖରୀ ଏବଂ ସୁନ୍ଦରଗଡ଼ ପୌରପାଳିକା ଦ୍ୱାରା ନିର୍ମାଣ କରାଯାଇଥିଲା । ପୋଖରୀର ଆକାର: ୭୦ ଫୁଟ x ୭୦ ଫୁଟ x ୧୦ ଫୁଟ	୧୦
ସୁନ୍ଦରଗଡ଼	ରାଉରକେଲା ମହାନଗର ନିଗମ	ଦ୍ରାକୂଣୀ ନଦୀ ନିକଟରେ ଥିବା ବାଲୁଘାଟ ନିକଟରେ: ରାଉରକେଲା ମହାନଗର ନିଗମ ଦ୍ୱାରା ଗୋଟିଏ ଅସ୍ଥାୟୀ ସୀମିତ ପୋଖରୀକୁ ମୂର୍ତ୍ତି ବିସର୍ଜନ ପାଇଁ ନିର୍ମାଣ କରାଯାଇଛି । ପୋଖରୀର ଆକାର: ୭୦ ଫୁଟ x ୨୮ ଫୁଟ x ୪.୨ ଫୁଟ	୧୭୧
ସୁନ୍ଦରଗଡ଼	ରାଜଗାଙ୍ଗପୁର ପୌରପାଳିକା	ଲିପଲୋଇ ବ୍ରିଜ୍, ଖର୍ଚ ନଦୀର ୧୧, ରାଜଗାଙ୍ଗପୁର: ରାଜଗାଙ୍ଗପୁର ପୌରପାଳିକା ଦ୍ୱାରା ଗୋଟିଏ ଅସ୍ଥାୟୀ ସୀମିତ ପୋଖରୀକୁ ମୂର୍ତ୍ତି ବିସର୍ଜନ ପାଇଁ ନିର୍ମାଣ କରାଯାଇଛି । ପୋଖରୀର ଆକାର- ୮୫ ଫୁଟ x ୫୦ ଫୁଟ x ୨.୪ ଫୁଟ	୧୧୨

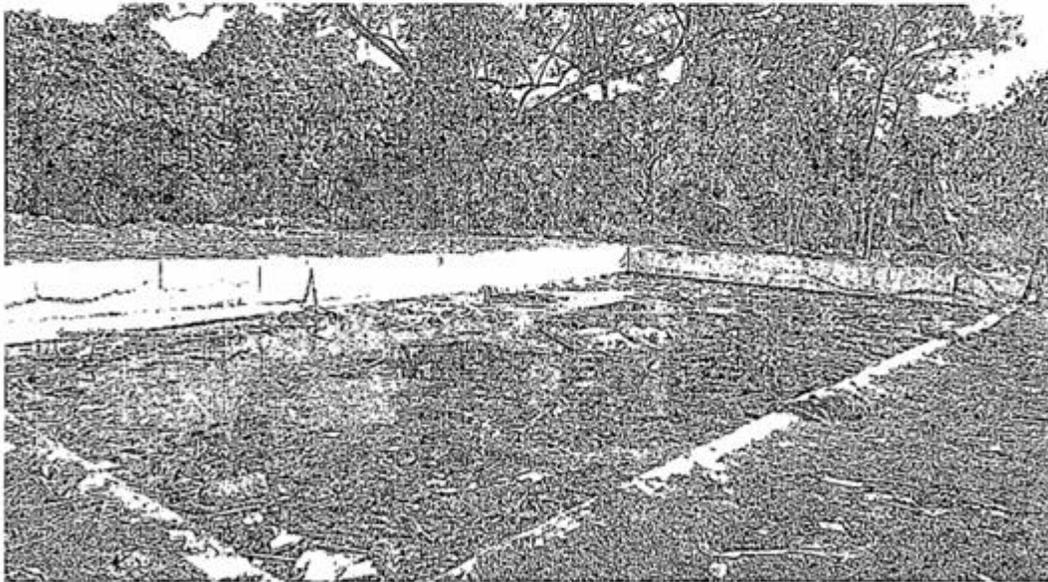


(ସୁନ୍ଦରଗଡ଼ ପୌରପାଳିକା ଦ୍ୱାରା ନିର୍ମିତ ଅସ୍ଥାୟୀପୋଖରୀ)

altitude: 22.12789  
longitude: 84.040895  
latitude: 186.8240 m  
accuracy: 10.1 m



(ରାଉରକେଲା ମହାନଗର ନିଗମ ଦ୍ୱାରା ନିର୍ମିତ ଅସ୍ଥାୟୀପୋଖରୀ)



(ରାଜଗାଙ୍ଗପୁର ପୌରପାଳିକା ଦ୍ୱାରା ନିର୍ମିତ ଅସ୍ଥାୟୀପୋଖରୀ)

ଆଦିତ୍ୟ ମଲିକ  
ଆସ୍ଥଳିକ ଅଧିକାରୀ

**Effective Implementation of the “Odisha Prevention and Control of Water Pollution (Procedure for Immersion of Idol after Pujas) Rules, 2021 during Durga Puja 2023 by Regional Office, Balangir**

A Co-ordination and Awareness Meeting was organized by the District Administration on dt. 12.10.2023 at Collectorate Hall, Balangir for smooth observation of Durga Puja 2023 and to aware the Puja Pandal Committees about using idols of natural clay and biodegradable materials and natural colours, height of the idols and superstructures of the idols in the presence of the Collector and District Magistrate, Balangir. Leaflets were distributed among Puja Committee members during the meeting.

Further, another Awareness Meeting was conducted on dt. 18.10.2023 at Balangir Municipality Conference Hall regarding Practice of Idol Immersion according to the CPCB Guidelines. The officials of Regional Office have actively participated in encouraging proper practice of idol immersion and distributing leaflets containing the Idol Immersion Guidelines to the individual Puja Pandals before the festival of Durga Puja and insisted and requested the Committee to use Artificial Ponds for Immersion of Idols.

Balangir Municipality had provided 3 nos. of temporary immersion ponds for immersion of idols during Dusshera. Out of the 3, two (2) nos. of ponds were made having sand bunds and synthetic liner in natural pond (Rani Bandha) and stream (Laxmi Jor) and one (1) no. of pond was done in pit (Maharani Sagar) with synthetic liner. Based on data provided, a total of 23 Puja Committees had made pandals in the town of Balangir during the festival of Durga Puja. The no. of Community idols immersed during festival are as follows:

Name of the District	Name of the ULB	Nos. And Size of Immersion Pond	Nos. Of Idol Immersed
Balangir	Balangir Municipality	<ul style="list-style-type: none"> <li>◆ <b>Rani Bandha Near Balangir Law College:</b> The construction of temporary pond having sand bunds and laying of synthetic liner were undertaken by the Balangir Municipality.</li> <li>◆ Size of the pond: 15 Ft x 15 Ft x 5 Ft</li> </ul>	10
		<ul style="list-style-type: none"> <li>◆ <b>Maharani Sagar Near Ayurvedic College:</b> The Municipality has provided one no of pit laying of synthetic liner as immersion pond.</li> <li>◆ Size of the pond: 50 Ft x 45 Ft x 3 Ft</li> </ul>	6

		<ul style="list-style-type: none"> <li>◆ <b>Laxmi Jor Near Hatisalpada Infront of Balangir Public School:</b> The construction of temporary pond having sand bunds and laying of synthetic liner were undertaken by the Balangir Municipality.</li> <li>◆ Size of the pond: 15 Ft x 15 Ft x 5 Ft</li> </ul>	5
			Total: 21

Water Samples were collected from the designated temporary ponds and the water samples were submitted in the central laboratory for analysis. The idols were immersed during dt. 25.10.2023 to 27.10.2023 (photographs enclosed in Annexure I), the dates of sampling were as follows:

Dates of Sampling	Location of Sampling
27.10.2023 – during immersion	1) <b>Rani Bandha Near Balangir Law College,</b> At- Tikrapada, PO/Dist- Balangir  2) <b>Maharani Sagar Near Ayurvedic College,</b> At-Tulsinagar, PO/Dist- Balangir  3) <b>Laxmi Jor Near Hatisalpada Infront of Balangir Public School,</b> At- Hatisalpada, PO/Dist- Balangir
30.10.2023 – 3 <sup>rd</sup> Day (post immersion)	
01.11.2023 – 5 <sup>th</sup> Day (post immersion)	
03.11.2023 – 7 <sup>th</sup> Day (post immersion)	
05.11.2023 – 9 <sup>th</sup> Day (post immersion)	

It was observed during Collection of Sample from the temporary ponds were provided with HDPE liner. As per information received from Balangir Municipality, 21 idols out of 23 Idols from Puja Pandals were immersed in temporary immersion ponds provided by the Municipality. After immersion, the left-over materials from the temporary immersion pond were removed by the Municipal Authority for final disposal at designated Municipal dump site. Lime was added to temporary immersion ponds for cleaning post removal of left-over materials.

*Jarash M Muzumdar*  
Asst. Env. Engineer

*[Signature]*  
Regional Officer





Annexure-5

No. 15225, Date 22/11/23  
**RECEIVED**  
Email-[rospcb.berhampur@ospcbboard.org](mailto:rospcb.berhampur@ospcbboard.org)  
[www.ospcbboard.org](http://www.ospcbboard.org)

  
**REGIONAL OFFICE, LABORATORY**  
**STATE POLLUTION CONTROL BOARD, ODISHA**  
(DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVT. OF ODISHA)  
2<sup>nd</sup> Floor, New Division Office, IDCO, Berhampur Division  
Industrial Estate, Berhampur, Dist- Ganjam - 760008, Odisha, India.

No. 3747 /Legal (Misc)-01/2015 Dt. 17/11/2023  
Speed Post/e-dispatch

To  
The Chief Environmental Scientist,  
Central Laboratory,  
State Pollution Control Board, Odisha  
Plot No. B-59/2 & 3, Chandaka Industrial Estate, Patia,  
Bhubaneswar.

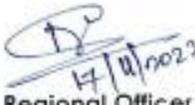
Sub: Submission of action taken report on effective Implementation of the "Odisha Prevention and Control of Water Pollution (Procedure for Immersion of Idol after Pujas) Rules, 2021" -reg.

Ref : Head Office letter No. 17755 dtd. 10.11.2023.

Sir,

With reference to the subject cited above, the action taken report on effective Implementation of the "Odisha Prevention and Control of Water Pollution (Procedure for Immersion of Idol after Pujas) Rules, 2021" during festive season 2023 (after Durga Puja -2023) is enclosed for favor of kind information and necessary action.

Encl: As above

Yours faithfully,  
  
17/11/2023  
Regional Officer

*ACES*  
*N. Prasad*  
*22/11/23*

**ACTION TAKEN REPORT IN COMPLIANCE TO ODISHA  
PREVENTION AND CONTROL OF WATER POLLUTION (PROCEDURE  
FOR IMMERSION OF IDOL AFTER PUJAS) RULES, 2021 DURING  
DUSHERA FESTIVAL, 2023 IN CUTTACK CITY**

Idol immersion has contributed a significant role in water pollution of Rivers, Nallas and other water bodies. To regulate the issue, many significant steps have been taken by the Central and State Government. Central Pollution Control Board (CPCB) has published guideline on Idol immersion for immersion of Idols in the festive occasion. Further, the guideline has been revised on dated 12.05.2020

Based on the aforesaid guideline and as per the Letter No.14123, dt. 07.09.2023 of State Pollution Control Board, Odisha, Bhubaneswar, the Regional Office, State Pollution Control Board, Cuttack had carried out water quality monitoring of rivers to assess the pollution loads on water bodies due to immersion of idols during **Dushera Festival, 2023** of Cuttack City.

For the immersion of idols of **Dushera Festival, 2023**, Cuttack Municipal Corporation (CMC), Cuttack had constructed three no of temporary ponds for immersion of idols at Devigada near Puri Ghat at one location as informed by CMC and verified.

As observed during Water Quality Monitoring, the temporary ponds were provided with HDPE liner, Hoarding Board and approach road for easy access to the temporary immersion site.

During immersion of idols of **Dushera Festival, 2023** idols were immersed in the three temporary ponds available at Devi Gada near Puri Ghat of Kathjodi River. Photographs of the idol immersion ponds are attached as **(Annexure-I)**.

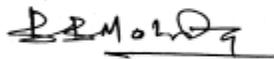
After immersion, the left over material from the temporary immersion ponds were observed to be removed by Dozer and loaded to the Tractor of Municipality for final disposal at the designated Municipal dump site. Further, it was observed that the temporary pond water was cleaned by adding lime.

**Cont...**

**Water Quality Monitoring carried out as per the guideline**

The Officials of the Regional Office, SPCB, Odisha, Cuttack had collected water samples from rivers i.e Up stream - 100m up from temporary pond, immediate of temporary pond, Downstream - 100m down from temporary pond and further downstream of river Kathajori and Mahanadi during **Dushera Festival, 2023**, in three stages i.e. on pre idol immersion (dt.18.10.2023), during idol immersion (dt.26.10.2023) and post idol immersion after 3<sup>rd</sup> day (dt. 28.10.2023), 5<sup>th</sup> day (dt.30.10.2023), 7<sup>th</sup> day (dt.01.11.2023) & 9<sup>th</sup> day (dt.03.11.2023) of the immersion and submitted the samples to Central Laboratory, SPC Board at Patia, Bhubaneswar for analysis of following parameters.

pH, DO, Colour, BOD, COD, Conductivity, Turbidity, TDS, Chloride, TSS, Hardness, Total Alkalinity and Metals (Such as Chromium, Lead, Zinc, Copper, Cadmium, Mercury, Antimony, Barium, Cobalt, Manganese).



**Mr. B. B Mohanty**  
(Asst. Env. Scientist)



**Mrs. R Priyadarshini**  
(Regional Officer)



**Annexure-8**

No. 1558 / 29/11/23  
**RECEIVED**

16737 28/11/23

**OFFICE OF THE MUNICIPALITY, KENDRAPARA**  
No. 7516, Dt. 17/11/23

NOV 2023  
S.P.C. BOARD  
BHUBANESWAR-75

To  
The Chief Environmental Scientist  
State Pollution Control Board  
Bhubaneswar. - 751012

Sub:- Action taken report on idol immersion on water bodies during Goddess Laxmi Puja-2023.

Ref:- Your letter no. 17755 dated 10.11.2023

Sir,

In inviting kind reference to the subject cited above, I am submitting herewith the action taken report on idol immersion during Goddess Laxmi Puja-2023. All idols were immersed as per Rule. There were four artificial ponds made for immersion of 48 nos. of idols which were constructed two nos. nearby Gobari river and near Santasahi canal bridge & other at Ekanakhandi canal bridge.

This is for your kind information and necessary action.

Encl:- as above  
CES (Central Lab)  
mm/m  
24/11/23

Yours faithfully,  
Chh  
Executive Officer  
Kendrapara Municipality

Memo no. 7517 / dated 17/11/23  
Copy to Collector & District Magistrate, Kendrapara for kind information.

A.CES  
N. K. S. S. S.  
29/11/23

Chh  
Executive Officer  
Kendrapara Municipality



2



# Newspaper clippings on Actions taken for eco-friendly Puja celebration and idol immersion-1

**କୁଆପୁଜା ପାଇଁ ନବା କୁଳ ଭବନମୁଖ୍ୟ**

**କୁଆଖାଇ ପଠାରୁ ମାଟି ଅନୁକୂଳ**

ଭୁବନେଶ୍ୱର, ୨୫ (ବି.ପି.) - କୁଆପୁଜା ପାଇଁ ନବା କୁଳ ଭବନମୁଖ୍ୟ ଶ୍ରୀ ଶ୍ରୀ ରାମଚନ୍ଦ୍ର ପାଣିଗ୍ରାହୀଙ୍କ ପକ୍ଷରୁ କୁଆଖାଇ ପଠା ପାଇଁ ଅନୁକୂଳ ମାଟିର ବ୍ୟବହାର କରାଯାଇଛି। ଏହାଛଡ଼ା, ପୁରୀ ଜିଲ୍ଲାରୁ ମାଟି ଆଣିବା ପାଇଁ ଉପଯୋଗୀ ପଦକ୍ଷେପ ଗ୍ରହଣ କରାଯାଇଛି।

ପୁରୀ ଜିଲ୍ଲାରୁ ମାଟି ଆଣିବା ପାଇଁ ଉପଯୋଗୀ ପଦକ୍ଷେପ ଗ୍ରହଣ କରାଯାଇଛି। ଏହାଛଡ଼ା, କୁଆପୁଜା ପାଇଁ ନବା କୁଳ ଭବନମୁଖ୍ୟ ଶ୍ରୀ ଶ୍ରୀ ରାମଚନ୍ଦ୍ର ପାଣିଗ୍ରାହୀଙ୍କ ପକ୍ଷରୁ କୁଆଖାଇ ପଠା ପାଇଁ ଅନୁକୂଳ ମାଟିର ବ୍ୟବହାର କରାଯାଇଛି। ଏହାଛଡ଼ା, ପୁରୀ ଜିଲ୍ଲାରୁ ମାଟି ଆଣିବା ପାଇଁ ଉପଯୋଗୀ ପଦକ୍ଷେପ ଗ୍ରହଣ କରାଯାଇଛି।

**ବିଶ୍ୱସ୍ତ ପରିଷଦ ଖଣ୍ଡା ପୂଜା**

ଭୁବନେଶ୍ୱର, ୨୫ (ବି.ପି.) - ବିଶ୍ୱସ୍ତ ପରିଷଦର ପକ୍ଷରୁ ଖଣ୍ଡା ପୂଜା ପାଇଁ ଅନୁକୂଳ ମାଟିର ବ୍ୟବହାର କରାଯାଇଛି। ଏହାଛଡ଼ା, ପୁରୀ ଜିଲ୍ଲାରୁ ମାଟି ଆଣିବା ପାଇଁ ଉପଯୋଗୀ ପଦକ୍ଷେପ ଗ୍ରହଣ କରାଯାଇଛି।

**ଭକାଯତି ଯୋଜନା ବ୍ୟୟ, ୬ ରିଭର୍ ମାନବସ୍ତ୍ର ଯତ୍ନ ଅଫ୍ ଓ ମୋଡରନାଇଜେସନ୍**

**ଶ୍ରୀରାଜକଳାକାର ନୂତନ କର୍ମକ୍ରମ**

ଭୁବନେଶ୍ୱର, ୨୫ (ବି.ପି.) - ଶ୍ରୀରାଜକଳାକାର ନୂତନ କର୍ମକ୍ରମର ଅନ୍ତର୍ଗତ ଭକାଯତି ଯୋଜନା ବ୍ୟୟ, ୬ ରିଭର୍ ମାନବସ୍ତ୍ର ଯତ୍ନ ଅଫ୍ ଓ ମୋଡରନାଇଜେସନ୍ କରାଯାଇଛି। ଏହାଛଡ଼ା, ପୁରୀ ଜିଲ୍ଲାରୁ ମାଟି ଆଣିବା ପାଇଁ ଉପଯୋଗୀ ପଦକ୍ଷେପ ଗ୍ରହଣ କରାଯାଇଛି।

**Times City Festive Cheer**

**Eco-friendly pandal for NAYAPALLI PUJA**

**Providing shelter, food to the homeless**

**QUIZ WINNER**

**GOVERNMENT OF ODISHA HOME DEPARTMENT**

**ODISHA STATE AGRICULTURAL MARKETING BOARD (OSAM)**

**କାଳ୍ପନିକ ତୋରଣରେ ପୂଜାପାଇବେ ମା'**

**ରାଜପତିନଗର କୁଆପୁଜା ସମିତି**

ଭୁବନେଶ୍ୱର, ୨୫ (ବି.ପି.) - ରାଜପତିନଗର କୁଆପୁଜା ସମିତିର ପକ୍ଷରୁ କାଳ୍ପନିକ ତୋରଣରେ ପୂଜାପାଇବେ ମା'ର ପୂଜା ପାରିବା ପାଇଁ ଉପକ୍ରମ କରାଯାଇଛି। ଏହାଛଡ଼ା, ପୁରୀ ଜିଲ୍ଲାରୁ ମାଟି ଆଣିବା ପାଇଁ ଉପଯୋଗୀ ପଦକ୍ଷେପ ଗ୍ରହଣ କରାଯାଇଛି।

**ମା' ବାରଭୁଜାଙ୍କ ଷୋଡ଼ଶ ଦିନାତ୍ମକ ପୂଜା**

**ଶ୍ରୀଶ୍ରୀ ଠାକୁରଙ୍କ ସ୍ୱପ୍ନସ୍ୱପ୍ନ**

**କେରୋଲିନିକା ନିର୍ମାଣକଳାମାନବନରାଜି**

**Bhubaneswar Municipal Corporation**

**ନୋତିଷ**

ଭୁବନେଶ୍ୱର, ୨୫ (ବି.ପି.) - ଭୁବନେଶ୍ୱର ନଗର ପାଳିକାଙ୍କ ପକ୍ଷରୁ ନୋତିଷ ଜାରି କରାଯାଇଛି। ଏହାଛଡ଼ା, ପୁରୀ ଜିଲ୍ଲାରୁ ମାଟି ଆଣିବା ପାଇଁ ଉପଯୋଗୀ ପଦକ୍ଷେପ ଗ୍ରହଣ କରାଯାଇଛି।

**ଶ୍ରୀମତୀ ସମାଜ - ୮/୧୯/୨୦୨୪**

**118 Durga idols immersed in Rourkela**

As many as 118 Durga idols were immersed in an artificial pond at Balughat in Rourkela on Monday night. However, four puja committees have extended their celebrations for two days, with their idols to be immersed on Wednesday night.

This year, Durga Puja was celebrated at 108 venues under the Central Puja Committee (CPC), as well as at other places not affiliated with the CPC. The idols of various puja committees were first brought to the Sector-13 ground and then taken one by one to the Malkeshi pond at Balughat for immersion, in order to prevent pollution of the Brahmani river; TNN





**Durga Puja mandap at Nayapalli, Bhubaneswar built up of materials such as bamboo, clay, plywood, herbal colors, and biodegradable items -a step towards environmental friendly Durga Puja**

*"Rejoice in the coming of the Lord;*

*Rejoice in His clay form and painted with natural colours;*

*Rejoice in His decoration with biodegradable materials;;*

*Rejoice in Celebration without noise, high sound producing crackers and single use plastic;*

*Rejoice in idol immersion process by following guidelines of district administration;*

*Rejoice in bidding farewell to the God by immersing in temporary immersion ponds."*

**State Pollution Control Board, Odisha**