

**IN THE HON'BLE NATIONAL GREEN TRIBUNAL  
PRINCIPAL BENCH AT NEW DELHI  
EXECUTION APPLICATION NO. 16/2019  
IN  
O.A. No. 153 of 2014**

**IN THE MATTER OF:-**

Indian National Trust for Art  
and Cultural Heritage

...APPLICANT

VERSUS

Govt. of NCT Of Delhi & Ors.

...RESPONDENTS

**INDEX**

<b>S. NO</b>	<b>PARTICULARS</b>	<b>PAGE NUMBERS</b>
1.	Status Report in compliance of the order dated 21.01.2022 passed by this Hon'ble Tribunal on behalf of the Wetland Authority, GNCTD.	1 - 14
2.	<b><u>Annexure- 1</u></b>  Details submitted by Delhi Jal Board regarding towns located in the catchment of Najafgarh Jheel.	15
3.	<b><u>Annexure- 2</u></b>  The photographs submitted by IFCD regarding de-silting of Najafgarh Jheel.	16-18
4.	<b><u>Annexure- 3</u></b>  The tender document submitted by Forest Department regarding installation of signages.	19

Place: New Delhi  
Date: 05.12.2022

FILED BY

JYOTI MENDIRATTA  
(Standing Counsel for GNCTD)

**IN THE HON'BLE NATIONAL GREEN TRIBUNAL  
PRINCIPAL BENCH AT NEW DELHI  
EXECUTION APPLICATION NO. 16/2019  
IN  
O.A. No. 153 of 2014**

**IN THE MATTER OF:-**

Indian National Trust for Art  
and Cultural Heritage

...APPLICANT

VERSUS

Govt. of NCT Of Delhi & Ors.

...RESPONDENTS

**STATUS REPORT ON BEHALF OF RESPONDENT NO. 1  
IN COMPLIANCE WITH ORDER DATED 21.01.2022  
PASSED IN THE CAPTIONED EXECUTION  
APPLICATION.**

**MOST RESPECTFULLY SHOWETH:-**

1. The present status report is being filed on behalf of Respondent No.1 through the Wetland Authority of Delhi in furtherance of the status report dated 12.08.2022, in compliance of the order dated 21.01.2022 passed by this Hon'ble Tribunal.
2. The issue under consideration in the captioned application pertains to the remedial action taken/to be taken to ensure rejuvenation of the Najafgarh Jheel (Lake) situated on the Delhi-Gurgaon border. The water body thus falls partly in NCT of Delhi and partly in Haryana.
3. That the Respondent No.1 submitted a detailed status report dated 12.08.2022 and the same is not being reiterated herein for

the sake of brevity, which may be kindly read as a part of this present report.

4. The following developments and/or actions have been taken since the submission of the last report:

(i) **Status of Water Quality**

The monitoring of water quality is being done on quarterly basis by the Delhi Pollution Control Committee (hereinafter referred to as '**DPCC**'), the latest report data dated 20.10.2022 is presented as follows: -

(a) Najafgarh Jheel (upstream)

Flow (MLD)	DO (mg/l)	pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)
-	1.7	7.1	92	168	46

(b) Najafgarh Jheel (Mid)

Flow (MLD)	DO (mg/l)	pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)
-	0.8	7.3	112	176	58

5. All requisite information was collected from the stakeholder departments such as Development Department (Agriculture Unit), Delhi Jal Board (**DJB**), DPCC, Forest & Wild life, I&FC, Power, Public Works Department (**PWD**), Revenue (South West), Municipal Corporation of Delhi (**MCD**) and submitted to the Inter-Ministerial Expert Group (hereinafter referred to as the '**IMEG**') formed by the Ministry of Environment, Forests and Climate Change (hereinafter referred to as '**MoEF&CC**').
6. The IMEG has prepared a draft report for conservation and rejuvenation of the Najafgarh Jheel and has requested for comments from members of the IMEG.

7. The most recent meeting with all concerned departments and stakeholders was conducted on 17.11.2022 by Wetland Authority of Delhi. This was the fifth meeting and the following actions were reported by the responsible departments. Appropriate budget shall be provided by GNCTD for the following actions, if necessary:-

**I. Data Needs**

S. No.	Actions	Responsible Department	Actions Taken
1.	Current and historical water quality, data of Najafgarh Jheel for all physical/chemical parameters, heavy metals, and bacteriological parameter	DPCC	Performed by DPCC on regular periodic intervals.
2.	Sources of pollution causing deterioration in water quality of Najafgarh Jheel to be identified and quantified	DPCC and IFCD	Monitored by DPCC periodically.
3.	Towns located in the catchment of Najafgarh Jheel and town-wise sewage generation need to be estimated considering 15 year projected population	Delhi Jal Board	The details are given at <b>Annexure-I</b> .
4.	Detailed gap analysis including identification of all drains distributing to pollution in Najafgarh Jheel along with flow and water quality	PWD and MCD	MCD has identified six drains, however some minors drains under the jurisdiction of PWD may still be left.  All the drain are monitored and desilted periodically.

## II. Immediate measures:

S. No.	Actions	Responsible Department	Actions Taken
5.	<p>Constitution of Najafgarh Wetlands Committee to:</p> <p>a) oversee compliance with extant regulations;</p> <p>b) Coordinating formulation of the integrated management plan and implementation strategy</p> <p>c) Establishing and maintaining an integrated wetland inventory, assessment, and monitoring system</p> <p>d) Reviewing development plans concerning the wetlands and their zone of influence, and making recommendations for preventing adverse ecological change</p> <p>e) Communication and outreach on wetland values and functions</p> <p>f) Promoting long-term management oriented multidisciplinary research to support wetland conservation and</p>	Wetland Authority of Delhi	Wetland Authority of Delhi has constituted Najafgarh Wetlands Committee on 19.07.2022 under the chairmanship of District Magistrate (South West District) with members from all stakeholder departments (MCD, Development Department, PWD, IFCD, Panchayat Department, Forest & Wildlife, DPCC, Power, DJB). Thus, putting in place a wetland assessment and monitoring system to guide effective management planning.



	wise use, g) Habitat restoration for enhanced ecological function.		
6.	Commissioning hydrological assessment to determine water, sediment, and nutrient fluxes; groundwater recharge; and critically silted up areas needing de-siltation.	IFCD	For critically silted up area Bathymetric survey has been carried out for the Najafgarh drain part of the Najafgarh Jheel. The proposed action of the desilting of the drain area falling in Najafgarh Jheel has been initiated. The photographs submitted by IFCD is placed at <b>Annexure-II.</b>
7.	Commissioning species inventory	Forest and Wildlife	A request letter has been written on 30.08.2022 to various Universities/ Institutions/ Registered NGOs for submitting RFP for the Commissioning Species Inventory latest by 30.09.2022. In response, two responses amounting Rs. 36,38,020 and to Rs. 10,60,000 have been received from Guru Gobind Singh Indraprastha University (GGSIPU), Delhi, and The Energy and Resources Institute (TERI), Delhi respectively. The same is being evaluated Forest Department.

8.	<p>Feasibility assessment for:</p> <p>a) construction of a regulator at Jhateekra to regulate water levels within Najafgarh Jheel, and</p> <p>b) construction of sluices or ducts in the embankment to allow for inundation on the Delhi side.</p>	IFCD	<p>The construction of regulator at Jhateekra and sluices or ducts in the embankment is feasible. However, the same will lead to the submergence/ permanent inundation of private agriculture land parcels in six villages of Delhi, which will have significant socio-economic impact. It may also make these areas vulnerable during floods.</p>
9.	<p>Developing a comprehensive stakeholder-endorsed wetlands management plan based on framework of environment management plan, including measures required for ecological restoration.</p>	Wetland Authority of Delhi	<p>The Authority will be developing a comprehensive stakeholder-endorsed wetlands management plan on the basis of framework of environment management plan, including measures required for ecological restoration based on lessons learnt during the execution of the action points in the EMP.</p>
10.	<p>Constituting Wetland Mitra an informal, voluntary, and non-statutory network of concerned citizens to foster and promote community engagement in management and ecological restoration (including protection of herenories).</p>	Wetland Authority of Delhi	<p>Wetland Authority of Delhi has constituted "Wetland Mitras" as an informal, voluntary and non-statutory network of concerned citizens to foster and promote community engagement in management and ecological restoration. As on date, 112 wetland Mitras are engaged with Wetland</p>

			Authority of Delhi, out of which 14 mitras belong to South West district where the Najafgarh Jheel is located.
11.	Putting in place a wetland assessment and monitoring system to guide effective management planning.	Wetland Authority of Delhi	Wetland Authority of Delhi has till date conducted five meetings with all concerned departments and stakeholders regarding the Execution of the Environment Management Plan for Conservation and Rejuvenation of Najafgarh Jheel to keep a track on their respective progress. The meetings with the stakeholders were conducted by Wetland Authority of Delhi on following dates:- 1. 02.03.2022 2. 06.04.2022 3. 29.06.2022 4. 13.10.2022, 5. 17.11.2022

### III. Medium-term measures (within two – three years)

12.	In-situ treatment of major inflowing drains, at least to the tertiary level in compliance with various judicial directives. Constructed wetland technologies may be used to complement the existing	IFCD/ DJBs	Six DSTPs are proposed in six adjoining village.
-----	---	------------	--



	wastewater treatment plants.		
13.	Construction of regulator at Jhateekra and operating the structure to manage water levels for diverse species (based on outcomes of feasibility assessment).	IFCD	The construction of regulator at Jhateekra and sluices or ducts in the embankment is feasible. However, the same will lead to the submergence/ permanent inundation of private agriculture land parcels in six villages of Delhi, which will have significant socio-economic impact. It may also make these areas vulnerable during floods.
14.	Selective dredging to restore natural flow gradients of inflowing drainages (while taking caution not to disturb bird habitats).	MCD/ DJB	MCD stated that only six drains pertain to them. It was stated that the installation of screens is in process in their six drains and the de-silting is performed on regular basis.  MCD has been directed to undertake the de-silting operations in drains without disturbing the bird habitats.
15.	Construction of sluices and ducts in the embankment (based on outcomes of feasibility assessment).	IFCD	The construction of regulator at Jhateekra and sluices or ducts in the embankment is feasible. However, the same will lead to the submergence/ permanent inundation of private agriculture land parcels in six villages of Delhi,

			which will have significant socio-economic impact. It may also make these areas vulnerable during floods.
16.	Relocating flow obstructions such as power sub-station.	Power Department	<p>Power Grid Corporation (PGCIL) has requested technical assistance to develop a financial estimation, addressing the RoW (Right of Way) for the concerned towers and shifting of towers on private lands.</p> <p>Power Grid requested to meet Sh. Manu Bhatnagar from INTACH for this action plan for the best alternative options available which was agreed upon by Sh. Manu Bhatnagar.</p>
17.	Providing alternate road connectivity to the settlements at the two ends of the Najafgarh Jheel, thus reducing vehicular traffic on the embankment, especially during peak migration season of waterbirds.	PWD/ MCD	PWD/ IFCD have been requested to meet INTACH and seek assistance for the issues related to road connectivity.
18.	Manual removal of water hyacinth and other aquatic invasive species in select pockets, and developing enterprise	IFCD and DJB	Water Hyacinth in Najafgarh drain part of Jheel area is being removed manually/mechanically by IFCD on regular basis.

	for economic utilization.		
19.	Piloting community micro-enterprise based on organic agriculture in the zone of influence.	Development Department (Agriculture Unit)	The action regarding demarcation of zone of influence is yet to be taken by Development Department.
20.	Training communities in bird watching.	Forest and Wildlife Department	A proposal is received from SACON, Tamil Nadu amounting Rs. 39, 61,474/- for duration of 06 months. The same is being evaluated.
21.	Operationalising wetlands hydrological, ecological and socio-economic monitoring and reporting	Wetland Authority of Delhi	<p>Wetland Authority of Delhi has constituted Najafgarh Wetlands Committee on 19.07.2022 under the chairmanship of District Magistrate (South-West District) with members from all stakeholder departments (MCD, Development Department, PWD, IFCD, Panchayat Department, Forest &amp; Wildlife, DPCC, Power, DJB). Thus, putting in place a wetland assessment and monitoring system to guide effective management planning.</p> <p>Stake holders Committee meeting will continue till operationalization of Wetland Management Plan.</p>

22.	Regular monitoring of waterbird population following standard protocols as the Asian Water bird Census at all the major congregation sites within and around Najafgarh Jheel	Forest and Wildlife Department	The department has received proposal from SACON, Tamil Nadu on 06.10.2022. The same is under scrutiny. Proposal amount is Rs. 41, 05,930/- for a duration of three years. The same is being evaluated and appropriate decision shall be taken shortly.
23.	Bird ringing and banding studies to assess movement patterns of key species and connections with other wetlands	Forest and Wildlife Department	The department has written a letter to Director, SACON on 30.08.2022 and the reply is still awaited.
24.	Carbon and Green House Gases flux assessments to determine role of Najafgarh Jheel in climate change.	DPCC	Appropriate department/agency with suitable technical competence for carrying out the study is being identified.
25.	Signage at entry and exit locations, and at key vantage points to communicate the value of Najafgarh Jheel, management arrangements, and dos and don'ts for people while in wetland.	Forest and Wildlife Department	DCF West stated that five signages in each of the six villages, which fall under zone of influence (Rawta, Durala, Shikarpur, Jhateekra, Gumanhera and Jhuljhuli) are proposed to be installed. The tender for the same is in progress and placed at <b>Annexure-III.</b>

26.	Capacity development of line departments and communities on various aspects of wetlands management, responding to needs assessment.	Wetland Authority of Delhi	<p>Wetland Authority of Delhi has constituted Najafgarh Wetlands Committee on 19.07.2022 under the chairmanship of District Magistrate (South-West District) with members from all stakeholder departments (MCD, Development Department, PWD, IFCD, Panchayat Department, Forest &amp; Wildlife, DPCC, Power, DJB). Thus, putting in place a wetland assessment and monitoring system.</p> <p>1. A series of eight hand holding training workshops was conducted from Sep-Nov' 2020 regarding brief documents.</p> <p>2. Meeting under the Chairmanship of Hon'ble Minister (Environment) was conducted on 24.05.2022 with land owning agencies.</p> <p>3. The sensitization and capacity development of the concerned stakeholders was conducted on 02.12.2022.</p>
-----	---	----------------------------	--



27.	Design of incentive systems (monetary and non-monetary) for communities holding private land titles within wetlands to promote their engagement in wetlands conservation and ecological restoration.	Revenue Department/ Forest and Wildlife Department	Revenue Department was to decide the model for land acquisition by either acquiring the land or taking the land on lease.  The revenue department shall expedite the process for the above action.
-----	--	---	--

#### IV. Long-term measures (within three – five years)

28.	Hydrological regime restoration by water level regulation at Jhateekra, re-operating sluices on embankment, and (if required) diverting flows to the Jheel from upstream sources.	IFCD	The construction of regulator at Jhateekra and sluices or ducts in the embankment will lead to the submergence of the permanent inundation of private agriculture land parcels in six villages as mentioned above. The re-operating will be considered once they will be constructed.
29.	Implementing ecological restoration measures (as recommended in the EMP).	Multi departments	Wetland Authority of Delhi requested concerned stakeholders to provide action plans on their concerned action points to further integrate and provide the measures for the ecological restoration.

30.	Constructing a wetland interpretation center (Haritima is a possible location) to educate visitors on the diverse values and functions of the wetland, and create the basis of affirmative behaviour for the conservation of wetlands.	Forest and Wildlife Department	The Haritma Complex is adjacent to the Najafgarh Drain As per discussion with officials of Department of Tourism, I&FC and Nagar Infrastructure the Complex 1 having an area of 2.5 Acre may be handed over to Department of Forest & Wildlife, GNCTD for converting it as Nature Interpretation Centre.
-----	--	--------------------------------	--



(T.C. Nautiyal)

CEO, Delhi Parks and Gardens Society  
and Member Secretary, Wetland Authority of Delhi

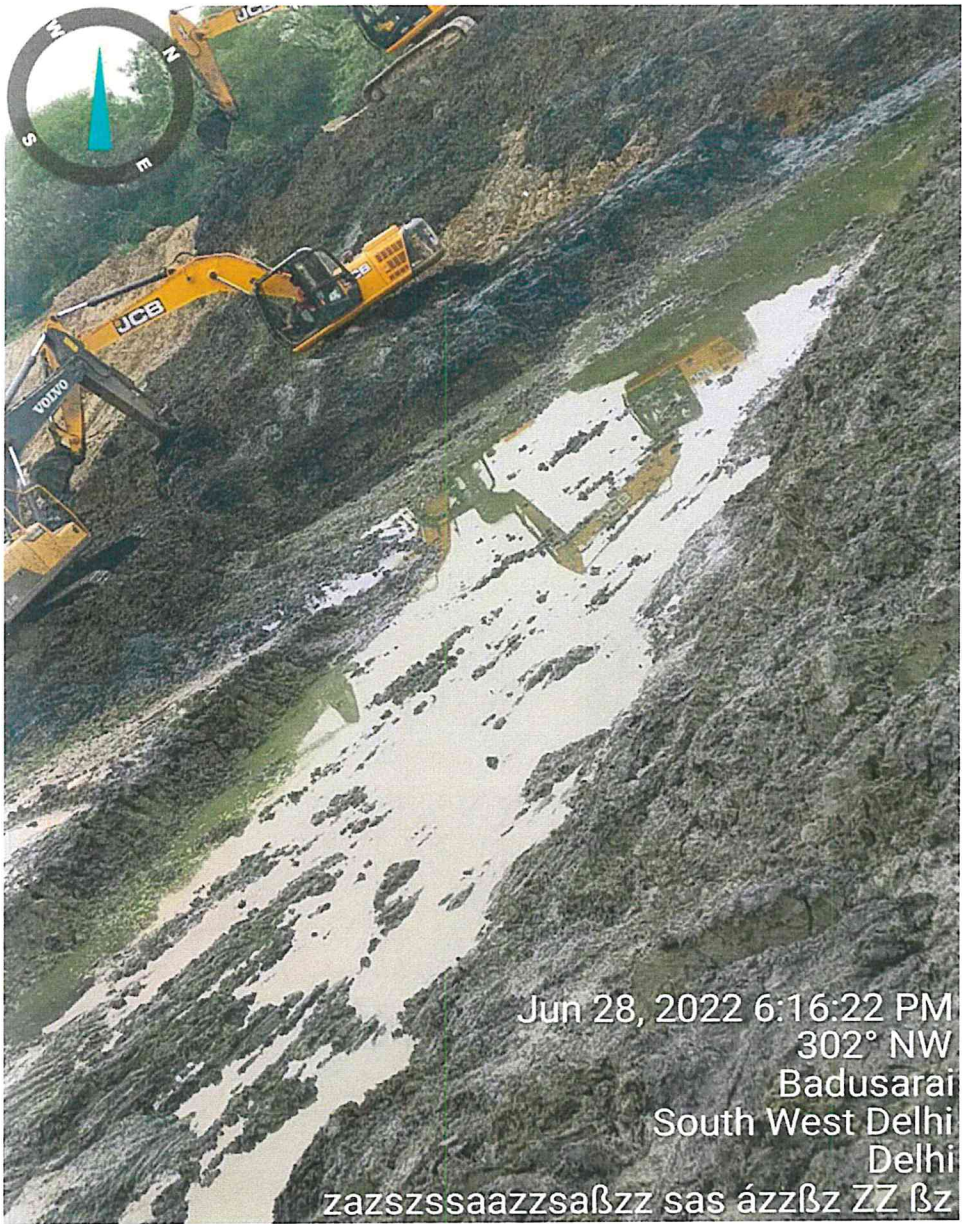
## Annexure-I

**Details of Towns located in catchment of Najafgarh Jheel and town-wise sewage generation**

S.No	Locations of proposed STPs for Group Of Colonies /Town	Area/Villages Covered	Sewage Generation Considering 15 years projected population (in MLD)	Remarks
1.	Sarangpur	Sarnagpr, Malikpur, Dhansa, Jhuljhuli, Dariyapur, Ghummanhera, Rural Village Malikpur, Abadi Village Issapur Near Dhansa Village	9	The sewerage network is being laid in entire area and the DSTPs are being constructed. The works are proposed to be completed in about 18 months in phased manner.
2.	Galibpur	Galibpur, Rawta, Daurala	4	
3.	Jafarpur	Jafarpur, Ujwa, Samaspur Khas	9	
4.	Shikarpur	Shikarpur, Jhatikra	3	
5.	Khera Dabar	Khera Dabar, Surehda	5	
6.	Kangan Heri	Kangan Heri, Nanak Heri, Badu Sarai, Raghampur	6	
		<b>Total Projected Sewage Generation</b>	<b>36 MLD</b>	



ANNEXURE-II







## Annexure-III

ANNEXURE - ~~A~~ A  
GOVT. OF N.C.T. OF DELHI  
OFFICE OF THE DEPUTY CONSERVATOR OF FORESTS  
WEST FOREST DIVISION MANIDR LANE, NEW DELHI-60

No.F. 149/DCF (W)/ Dev./Construction of MS Signage Boards at Najafgarh Drain /2022-23/

Date: 24-11-2022

SHORT TERM - NOTICE INVITING QUOTATION 9301-13

Scaled quotation are hereby invited from reputed firms/agencies for the work of "Construction of MS SIGNAGE Boards along with Painting at Najafgarh Drain" in the jurisdiction of Deputy Conservator of Forest (West) office, as per the details as under: -

Subject: - Work of "Construction of MS SIGNAGE Boards along with Painting at Najafgarh Drain"

Location:- Najafgarh Drain

Sl. No.	Items Description/ Particulars	unit	Qty.	Rate	Amount
1	Structure steel work in single section fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. MS Boards Size : 4*3 Ft	Kg	1500		
2	Acrylic painting of birds along with scientific names and posters	Nos.	30		
	Total :				

(Total cost quoted by the Bidder in words Rs.....)

The quotation should be sent in sealed cover marked as Work of "Construction of MS SIGNAGE Boards along with Painting at Najafgarh Drain" as addressed to Dy. Conservator of Forest (West), Govt. of NCT of Delhi, Mandir Lane, New Delhi-60.

The quotation should reach this office latest by 11:00 AM on 15/12/2022 (next day in case of Govt. /public holiday) and the same will be opened on the same day at 11:30 AM. The rates should be including all charges. Quotation

received after the above stipulated date and time will not be entertained and strictly rejected in case of any dispute. The decision of DCF(West), Mandir Lane, New Delhi, would be final and binding.

TERMS & CONDITIONS OF THE NIQ

1	Submission of /quotation shall amount to bidder's acceptance of the terms and conditions of the tender by the bidder.
2	Bidder shall quote the rates against this tender on a 'single responsibility' basis so that the Tender price covers contractor's all obligations and liabilities. The rates and prices quoted by the Bidder shall be inclusive of all Taxes. The rate quoted shall be responsive and the same should be inclusive of all statutory obligations.
3	The bidder should be from NCR and should be registered with /Trade & Taxes department, GNCTD, and should quote their GST Regn no. allotted by Deptt. of Trade & Taxes, GNCTD, and PAN no. allotted by the Income Tax Deptt.
4	The Dy. Conservator of Forests (West) reserves the right to accept or reject any or cancel any or all the tenders without assigning any reason therefore.
5	The rates quoted by the tenderer shall remain valid for the period of 06 months from the date of quotation opening date mentioned above, for the subject work and the Department shall not be responsible for payment of any extra on account of escalation of costs during the said period.
6	The department shall not be responsible for payment of any compensation on account of any loss caused to the