

Original Application No. 594/2024

In compliance to Original Application No. 594/2024 News Item titled "लखनऊ में पानी चला रसातल, 10 साल में 160 फुट नीचे चला गया जलस्तर, मिल रहे हैं खतरनाक संकेत " appearing in navbharattimes.indiatimes.com dated 13.04.2024, the Central Ground Water Borad Northern Region ,Lucknow is submitting details of activities undertaken during Annual Action Plans and its outputs as per mandate of the CGWB.

1. Based on the Pre-monsoon Ground water monitoring data of CGWB and Ground Water Deptt. U.P., it has been observed that depth to Ground water level in Lucknow city was in the range from 5.4 to 42.8 meters below ground level (mbgl) in the year 2014 which declined to 7.65 to 45.6 mbgl in ten years(2023). The deepest pre-monsoon ground water level in the area was 45.60 mbgl, observed at Lok Sewa Ayog, Aliganj in 2023.

2. It is the fact that decline of ground water level has taken place in Lucknow city during last ten years (Pre-monsoon 2014 to 2023) but it is in the range of 1.4 to 13.10 m (5 to 43 foot). The maximum decline observed is 43 foot. Further, 17% wells are showing decline in range of 0 to 5 meter, 58% in range of 5 to 10 m and 25 % wells in the range of 10 to 13.10 m. The water level data is shown in table no 1

Decadal Pre - Monsson Water Level & Fluctuation (Year 2014 to 2023) of Lucknow City**Table No 1**

S_No	DISTRICT	BLOCK	HYDROGRAPH_STATION_NAME	LATITUDE	LONGITUDE	PIEZO_WELL	PRM_14	PRM_23	Fluctun
1	Lucknow	Lucknow	MAHANAGAR P.O	26.867781	80.951636	DWLR	28.82	41.06	12.24
2	Lucknow	Lucknow	KUKRAIL FOREST	26.797778	80.936944	DWLR	19.85	24.83*	4.98
3	Lucknow	Lucknow	HAL	26.872834	80.988377	Piezometer	30.95	36.65	5.70
4	Lucknow	Lucknow	CHAK-MALHAUR	26.623725	81.033650	DWLR	12.90	15.10	2.20
5	Lucknow	Lucknow	IET SITAPUR RD	26.875000	81.008611	DWLR	18.60	27.13	8.53
6	Lucknow	Lucknow	RSC Aliganj Janki P-2	26.912028	80.955306	DWLR	19.05	26.93	7.88
7	Lucknow	Lucknow	Purania Sitapur Rd.	26.896455	80.937668	DWLR	27.86	40.96	13.10
8	Lucknow	Lucknow	TRIVENINAGAR P-2	26.886083	80.925278	DWLR	21.25	30.10	8.85
9	Lucknow	Lucknow	Gazipur Balram	26.906194	80.913167	Piezometer	6.40	13.25	6.85
10	Lucknow	Lucknow	Cant. Sadar P-2	26.824139	80.944194	DWLR	42.80	44.20	1.40
11	Lucknow	Lucknow	VICTORIA-PARK CHOWK P-2	26.866260	80.909367	DWLR	19.00	30.16*	11.16

12	Lucknow	Lucknow	HAYATNAGAR	26.898694	80.864472	Piezometer	5.40	7.65	2.25
13	Lucknow	Lucknow	AURANGABAD	26.763290	80.914522	DWLR	13.75	21.96	8.21
14	Lucknow	Lucknow	Jail Road	26.801681	80.917778	DWLR	36.25	43.54	7.29
15	Lucknow	Lucknow	INDIRA NAGAR C- 693/695	26.730837	81.154376	DWLR	26.15	37.99	11.84
16	Lucknow	Lucknow	INDIRA NAGAR 831/C SEC	26.966290	80.725561	DWLR	28.15	34.45	6.30
17	Lucknow	Lucknow	INDIRA NAGAR 1414/1434 SEC-C	26.866886	80.983496	DWLR	25.10	31.97	6.87
18	Lucknow	Lucknow	GMT NGR VIKAS KHAND 2/124	26.698713	80.949830	DWLR	28.30	35.92	7.62
19	Lucknow	Lucknow	GMT NGR VINAY KHAND 1/502	26.853056	81.003556	DWLR	26.95	35.88	8.93
20	Lucknow	Lucknow	GTM Viramkhand 6/687	27.040535	80.862666	DWLR	19.70	27.70	8.00
21	Lucknow	Lucknow	Lok sewa ayog 1	26.891775	80.941075	Piezometer	39.80	45.60	5.80
22	Lucknow	Lucknow	Bhujal Bhawan	26.905158	80.947518	DWLR	21.1	31.64	10.54
23	Lucknow	Lucknow	Lu New Campus	26.92718	80.93909	DWLR	14.6	22.55	7.95
24	Lucknow	Lucknow	Vikasnagar	26.89534	80.95848	DWLR	30	42.13*	12.13
*Data of 2022									

3. Central Ground Water Board conducted National Aquifer Mapping (NAQUIM) study in Lucknow district during AAP 2021. Block-wise management plans have been prepared for implementation by the State Government to arrest the further decline in groundwater levels and depletion of groundwater resources. The management plan recommends both supply-side and demand-side measures, including artificial recharge, water conservation on-farm activities, and adoption of water use efficiency measures.

4. The Aquifer Maps and Ground Water Management Plans under the NAQUIM study were presented before District Administration and concerned line departments of Lucknow district in the year January 2022 through online mode. Further, this report was approved by State Ground Water Coordination Committee (SGWCC), headed by Principal Secretary, Namami Gange & Rural Water Supply, Govt. of UP

5. As Per Dynamic Ground Water Resource Report of CGWB as on 31.03.2017, 31.03.2020, 31.03.2022 & 31.03.2023 the category of Lucknow city is Over-exploited.

IEC Activities to create the awareness

6. CGWB, NR organized Mass Awareness Programme, Public Interaction Programme (PIP), Block Level Training Programmes, Workshops etc. in Lucknow district to educate the common people about the judicious and optimum utilization of ground water and the problems related

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with ground water pollution & over development. During the mass awareness programme the public was briefed on local ground water conditions and related problems. Interactive talks are also conducted with the local public. These programmes were organized with the cooperation and participation of the local administration, NGO's & VO's students and stake holders in the affected areas. Following Mass Awareness Programmes were organized.

- A Mass Awareness Programme on the theme "Status of Ground Water and its Management in Bakshi-Ka-Talab block area Lucknow (Artificial recharge - 36 through Rain Water Harvesting – Solutions)" held on 17.8.2002 at Bakshi-Ka-Talab, Lucknow.
- Two numbers of Mass Awareness Programmes one at Mal block and other at Triloki Nath Inter College Kakori Block Lucknow held during 1-7 February 2005 part of Rain Water Harvesting Week Celebrations.
- Mass Awareness Programme held at Lucknow on the topic "Ground Water Scenario in Lucknow City" on 29.3.2007. Delegate from Government Sector private sector, media, institutions NGO's & VO's attended the programme & got benefited by activities of CGWB
- One Mass Awareness programme was organized on 29.03.2011 at Lucknow on GW Scenario of Lucknow urban area - Problems and Remedies. Apart from representatives from various State govt. departments, NGO's, VO's etc., Students, teachers, journalists, local residents also participated in the programme.
- CGWB, NR organized 2 trainings on Artificial Recharge to Ground water through Roof Top Rain Water Harvesting at Lucknow on 25.2.2003 and 17.3.2004 on "Artificial Recharge Techniques in Alluvial / Hard rock areas".
- Five training programmes have been conducted by CGWB in Lucknow during XI Plan (2007 to 2012) under aegis of Rajiv Gandhi National Ground Water Training and Research Institute, Raipur. Trainees from various Institutions, Govt. offices, NGO's & VO's were trained on Application of Geophysical) Techniques in GW Exploration, Analysis of Basic Water Quality Parameters in GW and data validation and on Ground Water Development Management.
- During XI plan three Workshops were organized in Lucknow on theme viz. Ground Water Scenario and Enhancing Water Use Efficiency; Conjunctive Use of Surface and Ground water; Management Techniques in GW Stressed Urban areas.
- CGWB, NR organized 3-days Tier-II Training on 'Ground Water Exploration and Management with Emphasis on Quality Affected Areas' from 04.12.2019 to 06.12.2019 at Bhujal Bhawan, Lucknow. The training was attended by various stakeholders from different State Government Departments like UP Jal Nigam, Ground Water Department, Minor Irrigation and NGOs.

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- CGWB, NR organized 1-day Tier-III Training on 'Sustainable Ground water Development and Management' on 30-11-2021 at Lucknow University, Lucknow. The training was attended by Students, HoO and faculty members.
- Public Interaction Programme (PIP) : The PIP activities were introduced in 2018 and so far 5 PIPs have been conducted in Lucknow in which total participants were 443 (Male=244 and Female=199) .
- Tier-II and Tier-III Training Programmes: Since 2018, CGWB, NR, Lucknow has conducted 6 Tier-II with an active participation of 441 people (male=292 and Female=149) and 3 Tier-III training programmes with an active participation of 359 people (Male=128 and Female=231) in Lucknow district/city.
- **Other Outreach Activities:**
 - Nadi Utsav - Celebrating River Swachhta Abhiyan - Cleanliness Drive,
 - The River Festival- 2021 was formally launched on 16th December 2021 by the Hon'ble Minister of Jal Shakti Minister, Sh. Gajendra Singh Shekhawat. Since 2021, CGWB, NR, Lucknow organized 3 Nadi Utsav along the ghats of Gomti River by organizing yoga, meditation, quiz competitions, cleanliness drive, plantation drive, card-making, painting competitions, etc targeting school children, college students and NGOs spreading a message of river cleaning, awareness for water conservation and river protection, rainwater harvesting, afforestation.
 - 2 nos. of painting and essay competitions were held in Lucknow by CGWB, NR in which 34,305 students took active participation and 60 students were selected for award.

7. A brief note on studies carried out by CGWB, NR in Lucknow city/district

- NAQUIM Study of Lucknow district.
- Artificial recharge by roof top rain-water harvesting at Bhujal Bhavan, Lucknow.
- Artificial recharge by roof top rain water harvesting at New Lucknow University Campus, Jankipuram, Lucknow, UP
- Artificial recharge by roof top rain water harvesting at Jal Nigam Colony, Indira Nagar, Lucknow, UP
- Scheme for rainwater harvesting and artificial recharge in selected government buildings in Seven sites at Lucknow, Uttar Pradesh

8. Short Term Investigation carried out by CGWB, NR in Lucknow city/district

Total 41 nos. of short-term investigations for water supply have been done by officers of CGWB, NR, Lucknow for cantonment areas, schools and government institutions from 2012 to till date.



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