

4th Compliance Report of Environment Clearance

Name of the Project:- Ganga Expressway (Green Field) in the State of Uttar Pradesh

Name of the Project Proponent:- M/s Uttar Pradesh Expressways Industrial Development Authority (UPEIDA)

Environmental Clearance Letter No. - EC22A034UP189577& File No. 10/1/2022-IA.III

Dated 13-07-2023

Compliance:- From Group I, II, III & IV

Period of Compliance Report:- From April-2024 to Sept. 2024 (4th Compliance Report)

Specific Conditions		
Sl. No.	Specific Conditions as are mentioned in the Grant of Environmental Clearance (EC)	Status of Compliance
i	<p>All commitments made in the Wildlife Management & Conservation Plan submitted to the Ministry shall be implemented in letter and spirit. The status of implementation of Management & Conservation Plan shall be submitted to the Regional Office of the Ministry along with 6 monthly compliance report</p>	<p>The commitments made in the Wildlife Management & Conservation Plan submitted to the Ministry are being implemented in letter and spirit. For the possible impact like road accident while crossing by animals and to avoid injury and mortality of animals as the remedial measures Different types of underpasses/culverts/interchange are proposed in the Environmental Management Action Plan of the project. to be constructed for animals to cross the Expressway The details of the proposed structures are given at condition No-ii</p> <p>There are five basic/essential components for Wildlife that they require to thrive. They are food, water, cover/shelter, space, and the arrangement to fulfill their basic needs. The construction and operations of the Ganga Expressway shall have minimum impact on any of these components as the proposed alignment does not pass through Wildlife Sanctuary protected area and it's Eco Sensitive Zone. Notified eco Sensitive Zone of Sandi Bird Sanctuary, in district Hardoi, (about 2.1 km. alignment) and Eco Sensitive Zone of Samaspur Bird Sanctuary in district Raebareli, (approx. 9.7 km alignment) fall within five km area of the Ganga Expressway alignment. However, both the areas are about 4.6 km and 3.5 km away from the project alignment of Ganga Expressway respectively. Notified eco sensitive Zone of Chandrasekhar Azad Bird Sanctuary, Nawabganj district Unnao is at a distance of about 8.5 km.</p> <p>There are two main factors which are important for Wildlife: 1- Light and 2- Noise. Both will have very minimal impact during construction period, because the construction activities will be for a short period and shifting from one place to the other place. The high noise producing equipment's have been provided with noise shields, silencers and mufflers to keep construction noise level to minimal. During operation period the provision shall be made for uninterrupted movement of heavy and light vehicles. Light glaring and noise pollution shall be controlled by a thick green belt on both sides of the expressway</p>

and median plantations shall also be done. Further, a boundary wall of 1.5m height shall also be raised on both sides of Expressway including crash barriers on road edges.

Biodiversity Assessment and Mitigation Measures Study of Samaspur Bird Sanctuary Raebareli and Biodiversity Assessment and Mitigation Measures Study of Sandi Bird Sanctuary, Hardoi has been carried out by UPEIDA through Independent Experts and submitted to the EAC, MoEF&CC Government of India annexed with the EIA and EMP report prior to obtaining EC.

The Expert Committee has identified Indian Flapshel Turtle (*Lissemys punctate andersonii*), Jungle cat (*Felis chaus*), Indian Fox (*Vulpes bengalensis*), Marsh Harrier (*Circus aeruginosus*) are some of the faunal species in the Samaspur Bird Sanctuary. However, no threat is perceived to these species due to the expressway project.

The Schedule-1 species common faunal species in the Sandi Bird Sanctuary are: Indian Softshell Turtle (*Nilssoniagangetica*), Common Indian Monitor (*Varanus bengalensis*), Black Buck (*Antelope cervicapra*), Indian Grey Hornbill (*Ocyrceros bigotries*), Indian Peafowl (*Pavocristatus*), Eurasian Spoonbill (*Platalealeucorodia*). Owing to the distance from the Ganga expressway alignment and the mitigation measures taken during the construction work there will not be any adverse impact of the project on these species.

To minimize the wild animal road accidents and ease of their movement from one area to another while crossing the road, all underpasses, overpasses, via-ducts as envisaged in EIA-EMP along with Chainage and DPR must be constructed keeping in mind the guidelines provided by WII (2016) and as identified in the wildlife conservation plan.

Ganga Expressway is an access controlled highway. Therefore, all the measures have been taken for safe crossing the Expressway and to minimize wildlife animal road accidents, and ease of their movements from one area to another. Sufficient number of underpasses, overpasses, box culverts etc. have been proposed in the DPR/EIA/EMP which are being constructed keeping in mind the guidelines provided by WII (2016) and IRC. During construction work certain number of such structures has been further added, as per requirement. The detailed progress of the main structures are as follows:-

Sl.No.	Name of Structure	Proposed	Revised Number	Complete	Balance
1.	Over Passes	179	218	158	60
2.	Under Passes	379	453	447	6
3.	Box Culverts	784	796	790	6
	Total	1342	1467	1395	72

Note: OP=Overpasses, UP=Underpasses and BC=Box Culvert

In addition to the aforementioned structures provisions like pipe culvert, steel wire fencing, steel road side railing, steel canopy bridge and signage etc. will also be made as suggested by the expert committee in the light of WII (2016) guidelines.

iii	The condition has been omitted vide letter F.N.10/1/2022-IA. III dated 30 Jan. 2023 by MoEF&CC, Government of India, because it was not related to the Ganga Expressway Project.	Not applicable																														
iv	Road side tree plantation of local fruit bearing species or in nearby village in collaboration with Gram Panchayats.	The condition will be complied along with the condition no. xii of Specific Conditions of EC and the Forest Clearance approved by MoEF&CC vide letter no. 8B/UP/06/295/2021/FC/133 dated 16.06.2022 have imposed conditions to raise the plantation in RoW by State Forest Department as per their plantation scheme.UPEIDA has given the consent to U.P. Forest Department to pay the amount of plantation and maintenance work through CAMPA.																														
v	Wildlife movement during the construction be monitored by forest department and if found necessary additional over/underpasses be developed. Provision for the same be made in the project budget.	<p>Sufficient provisions have been made in the project for Wildlife movement without any hindrance,if any recommendations of Forest Department are received for construction of additional over/underpass, the project proponent will construct that from its own budget. Keeping in view the free movement of wildlife, UPEIDA has constructed following over/underpasses and box culverts:-</p> <table border="1" data-bbox="699 869 1433 1081"> <thead> <tr> <th>Sl.No.</th> <th>Name of Structure</th> <th>Proposed</th> <th>Revised Number</th> <th>Complete</th> <th>Balance</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Over Passes</td> <td>179</td> <td>218</td> <td>158</td> <td>60</td> </tr> <tr> <td>2.</td> <td>Under Passes</td> <td>379</td> <td>453</td> <td>447</td> <td>6</td> </tr> <tr> <td>3.</td> <td>Box Culverts</td> <td>784</td> <td>796</td> <td>790</td> <td>6</td> </tr> <tr> <td colspan="2">Total</td> <td>1342</td> <td>1467</td> <td>1395</td> <td>72</td> </tr> </tbody> </table>	Sl.No.	Name of Structure	Proposed	Revised Number	Complete	Balance	1.	Over Passes	179	218	158	60	2.	Under Passes	379	453	447	6	3.	Box Culverts	784	796	790	6	Total		1342	1467	1395	72
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vi	Quarry areas shall be barricaded during mining operations. The abandoned quarry shall be developed as water reservoirs with proper fencing around quarry area. Details for Quarry area operation and rehabilitation given the EIA report shall be followed.	The condition is being complied accordingly, as per the provision given in the EIA /EMP report. Such areas are being developed as per the existing norms of IRC and mining.																														
vii	In all the construction sites within 150 m of the nearest habitation, noisy construction work such as crushing, concrete mixing will be stopped during the night time between 10.00 pm to 6.00 am. No noisy construction activities will be permitted around educational institutions/health centers (silence zones) up to a distance of 100 m from the sensitive receptors. All plants and equipment used in construction shall strictly conform to the CPCB/SPCB noise standards.	The condition is being complied. For crushing, concrete mixing etc. the necessary permission of CTE/CTO have already been obtained from Uttar Pradesh Pollution Control Board. The Board also has imposed similar conditions which are being complied with. Noise standards are being strictly enforced for all vehicles, plants, equipments, and construction machinery. High noise producing generators such as concrete mixers, generators, graders etc. are provided with noise shield. During the night time between 10.00 PM to 6.00 AM the noise generating construction work is stopped.																														

viii	<p>Traffic Control Devices/Road Safety Devices/ Roadside Furniture including various types of cautionary, informatory, and regulatory as mandatory signboards, road markers, studs, etc. shall be provided at appropriate locations all along the project stretch in accordance with the specifications laid down in Manual of Specifications and Standards for Expressways (IRC:SP:99-2013) and IRC:8, IRC:25, IRC:26, IRC:35, IRC:67, IRC:79, IRC:103 and Section 800 of MORTH Specifications.</p>	<p>During the construction phase Sand bags along with delineators, caution tapes are provided at construction site. Also, sign boards such as Work in Progress, Go Slow, Men at Work, Diversion Ahead etc. are provided. Diversion are done as per the guideline of IRC SP 55 2014 and for public safety additional safety measures have been taken at cross roads junction.</p> <p>Before operation of the Expressway all these provisions as per specification and IRC guidelines/ standards for Expressways shall be completed.</p>																				
ix	<p>Prepare the traffic prediction report for complete project (including all packages of this project) considering the cumulative impact of the traffic on the environment and submit to the Ministry and concerned Regional Office within 3 months.</p>	<p>The condition has been complied. The traffic prediction report has been prepared and included in the DPR and EIA/EMP report and the same has been submitted to the MoEF&CC along with the application for getting EC for the Project.</p>																				
x	<p>All the major, minor bridges and culverts should not affect the drainage systems. Flood plains of the rivers/ drainage systems are not to be disturbed. Areas between chainage 217400 to 224700 appears to be floodplain. Details regarding the same be sought from IIT Kanpur or Varanasi. In case of floodplain, an elevated corridor should be constructed in this area.</p>	<p>14(Fourteen) major bridges and 165 minor bridges have been proposed on the canal/river/nalah crossing the Ganga Expressway. Regarding areas between chainage 217400 to 224700 the study has been carried out by IIT, Banaras Hindu University, Varanasi. The recommendations of IIT BHU, Varanasi are being complied. Flood plains of the rivers/ drainage systems are not being disturbed.</p> <table border="1" data-bbox="758 1384 1497 1541"> <thead> <tr> <th>Sl.NO.</th> <th>Structure</th> <th>Proposed</th> <th>Revised</th> <th>Increased Number of the structure</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Box culverts</td> <td>784</td> <td>796</td> <td>12</td> </tr> <tr> <td>2.</td> <td>Underpasses'</td> <td>379</td> <td>453</td> <td>74</td> </tr> <tr> <td></td> <td>Total</td> <td>1163</td> <td>1249</td> <td>86</td> </tr> </tbody> </table>	Sl.NO.	Structure	Proposed	Revised	Increased Number of the structure	1.	Box culverts	784	796	12	2.	Underpasses'	379	453	74		Total	1163	1249	86
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xi	<p>Number of pillars for the over bridge proposed between chainage 66300 to 67000 over River Ganga should be kept bare minimum by increasing the length of span between pillars to maximum possible without compromising road safety and stability.</p>	<p>The condition is being followed as per the suggestion. The Technical section of the UPEIDA and the Concessionaires are taking care of the suggestion. The length of the span is 60m, which is more than the requirement of Inland Waterways Navigational span.</p>																				

xii	Afforestation using compensatory plantation in the ratio of 1:10 shall be carried out by the state forest department. Native tree species shall be provided as per the IRC Guidelines on Landscaping and Tree Plantation (IRC:SP:21-2009). Plantation should be purely of native trees with large number (atleast 40%) of Ficus species on both sides of the alignment.	<p>The plantation on the both sides of RoW will be carried out as per the condition imposed in stage-1 approval in principle under Forest Clearance by MoEF&CC, vide letter no.8B/UP/06/295/2021/FC/133 dated 16.06.2022.</p> <p>The Avenue Plantation in RoW will be carried out by the UP Forest Department as per their plantation scheme. UPEIDA has given consent to pay the amount to the UP Forest Department for plantation and maintenance work.</p>
xiii	Project alignment should be managed in such a way to save the Heritage/old trees supposed to be affected by the proposed alignment.	The condition has been complied.
xiv	The proponent shall obtain permission from the competent authorities for tree felling along the proposed alignment.	The condition has been complied. The tree felling permissions were obtained as per law from the competent authorities of the Forest Department along the proposed alignment.
xv	No Ground water shall be extracted and used. Approval/permission of concerned authority shall be obtained before drawing surface water from canal or any other sources.	The condition has been complied. Approvals/permissions of the concerned authorities have been obtained for drawing surface water from canal or any other sources.
xvi	Rain water harvesting pit shall be at least 3 - 5 m above the highest ground water table.	The condition shall be complied when constructing the RWHS. The report from the State Ground Water Board is being obtained and the RWHS shall be de-scoped at the places where ground water table is above 3 to 5m. The remaining RWHS shall be constructed as the construction of the Expressway progresses.
xvii	Proponent shall keep the finish road level sufficiently elevated from ground level with provision of railing on both sides to restrict animal crossing in order to avoid the possibility of wildlife injury/death. Appropriate nos of animal safe passages as per the guideline framed by the Wildlife Institute of India and in consultation with Chief Wildlife Warden shall be provided.	<p>The condition is being complied accordingly. The proposed Ganga Expressway is an access controlled Expressway. The road is mostly 3.0 to 3.5m high elevated from the ground level with provision of railings on both sides. 1.5m high boundary wall on the both sides of RoW is being constructed. It will restrict animal crossing in order to avoid the possibility of wildlife injury/death.</p> <p>Sufficient numbers of culverts/underpasses are being constructed on the whole stretch of Ganga Expressway. Provisions for safe passages of animals have been made as per the guidelines framed by the Wildlife Institute of India. In addition extra box culverts and underpasses are also being constructed as per the requirement.</p> <p>The details of overpasses /under passes/culvert have been given</p>

		in the above paras no. (ii) and (v).
xviii	<p>As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 30th September, 2020, the project proponent shall abide by all the commitments made by them to address the concerns raised during the Public Hearing. The project proponent shall initiate the activities proposed by them, based on the commitment made in the Public Hearing, and incorporate in the Environmental Management Plan and submit to the Ministry. All other activities including pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV, Compensatory afforestation etc., either proposed by the project proponent based on the social impact assessment and R&R action plan carried out during the preparation of EIA report or prescribed by EAC, shall also become part of EMP and shall be implemented.</p>	<p>During public hearing concerns were raised regarding air & noise pollution generated during construction as well as operation phases. All precautions are being taken during construction phase so as to minimize Air & Noise pollution. For example, the high noise producing equipment's have been provided with noise shield, silencers and mufflers to keep constructions noise level to the minimum. The noise generating activities are stopped from 10 PM to 6 AM.</p> <p>During operation uninterrupted movement of heavy and light vehicles shall be ensured to control noise pollution. A thick green belt/avenue plantation and median plantation as well as 3m. elevated Expressway and 1.5m high wall on both sides of the Expressway shall control air and noise pollutions. Further these arrangements shall also restrict entry of wild animals avoiding their kills.</p> <p>After public consultation the Final EIA/EMP report was prepared accordingly and submitted to the MoEF&CC. The commitments and recommendations in the EIA/EMP report are being complied.</p> <p>During the construction phase no public grievance and public complaints have been received so far.</p>
Sl.	<p>General Conditions as are mentioned in the Grant of Environmental Clearance (EC) along with IRC Guidelines</p>	<p>Status of Compliance</p>
i	<p>Cut and fill works shall be carried out strictly in accordance with the design drawings proposed at the time of appraisal of the project.</p>	<p>The condition is being complied</p>
ii	<p>Sidewalk shall be provided along the bridges.</p>	<p>The Green Field Expressway is an access controlled highway where pedestrian movement is restricted. Therefore, side bridges are not required.</p> <p>However, along the Railway Over Bridges the provision of Sidewalk shall be made as per the Rules/guidelines</p>

iii	<p>The drain shall be at least 1m away from the toe of the embankment of the road adopting IRC guidelines. Longitudinal drains shall be provided all along the project road to ensure proper drainage of the area. In addition, adequate number of under passes and culverts to act as cross drainage structures shall also be provided.</p>	<p>The condition is being complied. IRC guidelines have been adopted.</p>
iv	<p>Blasting shall be carried out during fixed hours (preferably during mid-day) or as permitted by the concerned authority. The timing shall be made known to all the people within 1000m (200m for pre-splitting) from the blasting site in all directions.</p>	<p>No blasting activity is being carried out for the construction of the Expressway.</p>
v	<p>Rain water harvesting including oil and grease trap shall be provided as prescribed by CGWB guidelines. Water harvesting structures shall be located at every 500m along the road. Vertical drain type rainwater harvesting structures shall be set up to minimize surface runoff losses of rainwater.</p>	<p>The condition is being complied. Rain water harvesting including oil and grease trap shall be provided as prescribed by CGWB guidelines, at every 500m along both sides of the Ganga Expressway. Approximately 2380 rain water harvesting structures are proposed. Construction of RWHS shall start very soon along with construction of the expressway.</p>
vi	<p>The embankments/slopes and the slopes left after cutting shall be provided with vegetative growth to avoid soil erosion.</p>	<p>The condition is being complied. Development of vegetation is under process. The guidelines have been given in the DPR/EIA/EMP in this regard, and the contractors are following the same. Provision has been made in the Concession agreement.</p>
vii	<p>Construction spoils including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such materials must be secured so that they shall not leach into the ground water. The non-usable bitumen spoils shall be disposed of in a deep trench providing clay lining at the bottom and filled with soil at the top (for at least 0.5m).</p>	<p>The condition is being complied. Special attention is being taken in this regard.</p>

viii	Construction camps shall be proposed 500 m away from the nearest settlements to avoid conflicts and stress over the infrastructure facilities with the local community. Location for stockyards for construction materials shall be identified at least 1000m from water sources. Garbage tanks and sanitation facilities will be provided at camps	The condition has been complied in letter and spirit. The construction camps for the four groups of construction concessionaires have been set up at 500 m away from the nearest settlements as per the condition of the EC. Location for stockyards for construction materials have been identified at least 1000 m away from the water sources. Garbage tanks and sanitation facilities have been provided at the camps.
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(Dr. Mohd Sikandar)
Sr. Manager (Environment)


(Srihari Pratap Shahi)
I.A.S.
Addl. Chief Executive Officer

LABOUR LICENSE

Form VI
[See Rule 25(F)]



Government of Uttar Pradesh
OFFICE OF THE LABOUR COMMISSIONER

LICENCE

License No:- UPCLAL27000188

Dated:- 17/08/2023

Fee Paid Rs:- 1250.00

Security Fee Paid Rs:- 750000.00

License is hereby granted to **PATEL INFRASTRUCTURE LIMITED** at **OPP. HP PETROL PUMP, BANGARMAU-ANDILA ROAD, RANIPUR GRANT, DIST. UNNAO-209869** under Section 12(1) of the Contract Labour (Regulation and Abolition) Act, 1970, subject to the conditions specified in Annexure.

This license is for doing the work of (ROAD CONSTRUCTION) in the establishment of **UTTAR PRADESH EXPRESSWAYS INDUSTRIAL DEVELOPMENT AUTHORITY** at **C-13 2nd FLOOR PARYATAN BIHAWAN GOMTI NAGAR LUCKNOW UTTAR PRADESH, LUCKNOW, 226010.**

The license shall remain in force till **30/09/2024**.

Dated :- 13/09/2023

RENEWAL

[See Rule 29]

Date of Approval	Fee paid for renewal	Date of Expiry
		30/09/2023
05/09/2023	1563.00	30/09/2024

Dated :- 17/08/2023

Issued on the behalf of office of the labour commissioner

- Note :
- This is a computer generated certificate/ license, hence, no signature is required
 - This certificate/ license may be verified from the website of the Labour Department, Govt. of UP - www.unlabour.gov.in
 - This certificate/ license is issued solely on the basis of the information submitted by the applicant. The Labour Department does not undertake responsibility for the correctness of the information contained herein.

ANNEXURE

- The license is subject to the following conditions:-
- The license shall be non-transferable.
 - The number of workmen employed as Contract Labour in the establishment shall not, on any day, exceed, **2500**
 - Except as provided in the rules the fees paid for the grant, or as the case may be, for renewal of the license shall be non-refundable.
 - The rates of wages payable to the workmen by the contractor shall not be less than the rates prescribed for in the Schedule of employment under the Minimum Wages Act, 1948, where applicable, and where the rates have been fixed by agreement, settlement or award, not less than the rates fixed.
 - In cases where the workmen employed by the contractor perform the same or similar kind of work as the workmen directly employed by the principal employer of the establishment, the wages rate, holiday, hours of work and other conditions of service of the workmen of the contractor shall be the same as applicable to the workmen directly employed by the Principal Employer of the establishment on the same or similar kind of work:
Provided that in the case of any dispute with regard to the type of work the same shall be decided by the Labour Commissioner, Uttar Pradesh, whose decision shall be final.
 - In the other cases the wages rates, holiday, hours of work and conditions of service of the workmen of the contractor shall be such as may be specified in this behalf by the Labour Commissioner, Uttar Pradesh.
 - In every establishment where 20 or more women are ordinarily employed as contract labour there shall be provided two rooms of reasonable dimension for the use of their children under the age of six years. One of such room would be used as a play-room for the children and the other as bed-room for the children. For this purpose the contractor shall supply adequate number of toys and games in the play-room and sufficient number of cots and bedding in the sleeping room.
 - The Licensee shall notify any change in the number of workmen or the conditions of work to the Licensing Officer.
 - A copy of the license shall be displayed prominently at the premises where the contract work is being carried on.



GROUND WATER DEPARTMENT
(Namami Gange & Rural Water Supply Department)
Ministry of Jal Shakti
Government of Uttar Pradesh

Form 8 (C)

AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF NEW / EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: REG042681

VALID FROM 05/08/2023 TO 04/08/2028

Name of the Applicant	PRAWINBHAIVITHALBHAI PATEL		
Address of the Applicant:	MII Ranipur Grant, Tehsil - Bangamau Unnao, U.P		
Company Name:	PATEL INFRASTRUCTURE LIMITED	Company Address	Patel Infra Camp Office, Durgaganj, Bilgram, Hardoi.
Serial No. of Application Form	HRD00R23NIF001	Date of Submission	20/08/2023
Specimen Signature of the User:			
Location particulars:			
District	Hardoi	Block	BILGRAM
Plot No.	Durgaganj, Bilgram, Hardoi, UP		
Municipality/Corporation	No	Ward No.	Durgaganj, Bilgram, Hardoi, UP
Holding No.	Durgaganj, Bilgram, Hardoi, UP		
Rate of Withdrawal (m ³ /hr.:	5.00	Date of Energization (In Case of Electric Pump)	15/08/2022
Particular of the Proposed Well and Pumping Device			
Type of the Well	Tube Well/Boring	Purpose of the Well	Infrastructural
Assembly Size (f or Tube Well)	88.00	Approx. Strainer Length (f or Tube Well)	0.00
Diameter (f or Dug Well)	0.00	Type of Pump to be Used:	Submersible
I.R. of the Pump:	5.00	Operational Device	Electric Motor
Maximum Allowable Rate of Withdrawal (m ³ /hr.:	5.00	Maximum Allowable Running Hours Per Day:	2.02
Maximum Allowable Annual Extraction of Ground Water:	3687	Recharge Required:	1843.25

This No-Objection certificate authorises the owner applicant (user) to sink a well in the location specified at Sl. (2) for extraction of ground water at a rate not exceeding that as shown at Sl. (3), for Running Hours per day as shown at Sl. (3k) and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

GENERAL CONDITIONS:

- In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters.
- The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- In case of any change of ownership of the existing well, fresh registration has to be obtained.
- No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- In case, any of the particulars / information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- Guidelines for Installation of Piezometers and their Monitoring**

Piezometer is a borewell / tube well used only for measuring the water level by lowering the tape/sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing when ever needed. General guidelines for installation of piezometers are as follows:

- The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6"
- The depth of the piezometer should be same as in case of the pumping well from which ground water is being abstracted. If more than one piezometers are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
- No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No. of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter upto two decimal.
- For measurement of water level sounder or automatic water level recorder (AWLR) Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone tapped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 l) capacity bottle to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- Any other site specific requirement regarding safety and access for measurement may be taken care of.

Any other conditions) that may be imposed by the concerned Authority.

In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.

SPECIFIC CONDITIONS:

- (A) For Industrial User: No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions.
 - No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
 - All industries abstracting ground water in excess of 100 m³/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII), Federation Indian Chamber of Commerce and Industry (FICCI) National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of the same to Ground Water Department Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
 - Construction of observation well(s) (piezometer(s)) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
 - The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
 - Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
 - Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) Infrastructural User: The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - In case of Infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³/day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

Date : 01/09/2023

Place:Hardoi

This certificate is electronically generated and does not require digital signature



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti
Government of Uttar Pradesh

Form 8 (C)

AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF NEW / EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: N0C027311

VALID FROM 24/07/2023 TO 23/07/2028

Name of the Applicant	PRAWINBHAI VITHALBHAI PATEL		
Address of the Applicant:	Vill - Ranipur Grant , Tehsil - Bangar Mau, Unnao, U.P.		
Company Name:	PATEL INFRASTRUCTURE LIMITED	Company Address	Patel Infra Camp Office, Chamrauli, Hasanganj, Unnao
Serial No. of Application Form	UNAO0623NIF0007	Date of Submission	20/06/2023
Specimen Signature of the User:			
Location particulars:			
District	Unnao	Block	HASANGANJ
Plot No.	Chamrauli, Hasanganj, Unnao		
Municipality/Corporation	No	Ward No.	Chamrauli, Hasanganj, Unnao
Holding No.	Chamrauli, Hasanganj, Unnao		
Rate of Withdrawal (m ³ /hr.)	5.00	Date of Energization (In Case of Electric Pump)	05/10/2022
Particular of the Proposed Well and Pumping Device			
Type of the Well	Tube Well/Boring	Purpose of the Well	Infrastructural
Assembly Size (For Tube Well)	63.00	Approx. Strainer Length (For Tube Well)	0.00
Diameter (For Dug Well)	0.00	Type of Pump to be Used:	Submersible
H.P. of the Pump:	5.00	Operational Device	Electric Motor
Maximum Allowable Rate of Withdrawal (m ³ /hr.):	5.00	Maximum Allowable Running Hours Per Day:	2.02
Maximum Allowable Annual Extraction of Ground Water:	3687	Recharge Required:	1843.25

This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (2) for extraction of ground water at a rate not exceeding that as shown at Sl. (3j), for Running Hours per day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

GENERAL CONDITIONS:

- In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters.
- The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- In case of any change of ownership of the existing well, fresh registration has to be obtained.
- No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- In case, any of the particulars / information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- **Guidelines for Installation of Piezometers and their Monitoring**

Piezometer is a borewell /tubewell used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing when ever needed. General guidelines for installation of piezometers are as follows:

- The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
- The depth of the piezometer should be same as in case of the pumping well from which ground water is being abstracted. If, more than one piezometers are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
- No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No. of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter upto two decimal.
- For measurement of water level sounder or automatic water level recorder (AWLR) Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone tapped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 l capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.

- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
 - Any other site specific requirement regarding safety and access for measurement may be taken care of.
- Any other condition(s) that may be imposed by the concerned Authority
- In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation
-
- **SPECIFIC CONDITIONS:**
- **(A) For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
 - iii) All industries abstracting ground water in excess of 100 m³/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of the same to Ground Water Department Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
 - iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no. 10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³ /day of ground water and Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
 - v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
 - vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
 - vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
-
- **(B) Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

Date: **03/09/2023**

Place: **Unnao**

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GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (C)

AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF NEW / EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: N0C027311

VALID FROM 24/07/2023 TO 23/07/2028

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Address of the Applicant:	Vill - Ranipur Grant, Tehsil - Bangar Mau, Unnao, U.P.		
Company Name:	PATEL INFRASTRUCTURE LIMITED	Company Address	Patel Infra Camp Office, Chamrauli, Hasanganj, Unnao
Serial No. of Application Form	UNAO0623NIF0007	Date of Submission	20/06/2023
Specimen Signature of the User:			
Location particulars:			
District	Unnao	Block	HASANGANJ
Plot No.	Chamrauli, Hasanganj, Unnao		
Municipality/Corporation	No	Ward No.	Chamrauli, Hasanganj, Unnao
Holding No.	Chamrauli, Hasanganj, Unnao		
Rate of Withdrawal (m ³ /hr.)	5.00	Date of Energization (In Case of Electric Pump)	05/10/2022
Particular of the Proposed Well and Pumping Device			
Type of the Well	Tube Well/Boring	Purpose of the Well	Infrastructural
Assembly Size (For Tube Well)	63.00	Approx. Strainer Length (For Tube Well)	0.00
Diameter (For Dug Well)	0.00	Type of Pump to be Used:	Submersible
H.P. of the Pump:	5.00	Operational Device	Electric Motor
Maximum Allowable Rate of Withdrawal (m ³ /hr.):	5.00	Maximum Allowable Running Hours Per Day:	2.02
Maximum Allowable Annual Extraction of Ground Water:	3687	Recharge Required:	1843.25

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GENERAL CONDITIONS:

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Date: **03/09/2023**

Place: **Unnao**

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