

F.No. 10-61/2018-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan,
JorBagh Road, Ali Ganj
New Delhi - 110 003

Dated: 30th April, 2019

To

The General Manager (Environment-II)
National Highways Authority of India
Ministry of Road Transport and Highways
G-5 & 6, Sector-10, Dwarka
New Delhi - 110 075

Sub: Development of 8 lanes (Greenfield Expressway) from Firozpur-Jhirka (km 79.394 Km) to Itawa (km 284.000 Km) Section of NH-148 N (Total length 204.606 Km) under Bharatmala Priyोजना (Lot-4/Pkg-4) in the state of Rajasthan by M/s National Highways Authority of India - **Environmental Clearance regarding.**

Sir,

This has reference to your letter no. 1013/1/2k/Env./602 dated 30th January, 2019 submitting the above proposal online to this Ministry on 31st January, 2019 and subsequent clarification vide letter dated 9th January, 2019, 11th January, 2019, 28th February, 2019, 20th March, 2019 and 2nd April, 2019 and 11th April, 2019, for seeking of Environmental Clearance in term of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

2. The above mentioned proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure, CRZ and other Miscellaneous projects, in its 208th meeting held on 19-20 February, 2019.

3. The project proponent along with the EIA consultant M/s Feedback Infra Private Limited, made a presentation and provided the following information before the Committee:

- (i) Development of 8 lanes (Greenfield Highway) from Firozpur Jhirka (Ch. 79.394 Km) to Itawa (Ch. 284.000 Km) Section of NH-148 N (total length 204.606 Km), under Bharatmala Pariyोजना (Lot-4/Pkg-4) in the state of Rajasthan.
- (ii) **Location:** The alignment shall start from Haryana - Rajasthan Boarder at Ch. 79.394 km (27°39'13.12"N, 76°57'46.62"E) near Firozpur Jhirka (near Munpur Karmala village, District Alwar, Rajasthan) and traverses entirely through plain / rolling terrain in Rajasthan state and ends near Itawa village at Ch. 284.000 km (26°01'57.27"N 76°15'42.06"E) of Sawai Madhopur district, Rajasthan. The

proposed section will cover Alwar, Bharatpur, Dausa and Sawai Madhopur districts in Rajasthan state.

- (iii) **Land use of the site and around the site up to 10 km radius:** The land use of the project is predominantly agriculture followed by habitation and Forest Area.
- (iv) **Land Acquisition and Proposed RoW:** The land acquisition for the proposed alignment is about 2261.85 ha with facility area and RoW is 100 m.
- (v) 9 MJB, 38 MNB, 101 SVUP, 19 VUP, 6 Flyovers, 5 Interchange and 49 LVUP are proposed along the project stretch for free passage to locals and avoid any impact on local hydrology.
- (vi) **Total water requirement and its source:** It is estimated that the Project will need 6403206 KL water for construction phase. The water for the construction phase will be met by water tankers from approved vendors. Borewell, if required, will be operated after approval from the competent authority.
- (vii) **Waste water generation, treatment and disposal:** 30 KLD (approx.). STP shall be provided for the treatment of the waste water. The treated water shall be utilized for greenbelt development and dust suppression.
- (viii) **Municipal solid waste generated disposal facility:** Approximately 700 Kg of Municipal Solid Waste shall be generated by the workers. It will be collected and disposed of in environmentally acceptable ways.
- (ix) **Water bodies, diversion if any:** Proposed alignment is crossing 7 rivers and 11 irrigation tank/village ponds.

S. No.	Design Chainage (Km)	Type of structure	Type of crossing	Length of Pond (m)	Remarks
1.	123+550	Box Culvert	Pond	Local pond touching outlet of ROW area	Local pond
2.	139+730	MNB	Pond	45	Local pond
3.	164+500	MNB	Pond	55	Local Pond
4.	173+200	MJB	Pond	130	Local pond
5.	173+900	MNB	Pond	45	Local pond
6.	174+490	MJB	Pond	65	Local pond
7.	192+420	MNB	Pond	25	Local pond
8.	199+600	MNB	Pond	53	Local pond
9.	249+700	Box Culvert	Pond	Local pond touching outlet of ROW area	Local Pond
10.	252+300	MNB	Pond	25	Local pond
11.	257+370	MJB	Pond	160	Local pond

- (x) **Tree cutting, types, numbers, girth size etc.:** About 36000 numbers of trees are likely to be affected due to proposed development. Efforts will be made to minimize the trees loss by restricting tree cutting with formation width. Avenue plantation shall be carried out as per IRC SP21:2009 on available RoW apart from statutory requirements of Compensatory Afforestation.
- (xi) **Whether the project is in Critically Polluted area:** No.

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(xii) **National Park/ Wild Life Sanctuary in 10 km radius area & Eco-Sensitive Zone in 10 km radius area:** No.

(xiii) **If the project involves diversion of forest land, extend of the forest land:** Yes. Tentative length of affected forest area along the proposed alignment is about 3.15 km with 28.301 ha of affected forest area considering the RoW of 100 m. Forest clearance application has submitted vide proposal no. FP/RJ/Road/ 36182/2018 dated 16.10.2018. Chainage wise distribution of the forest area is given in table below:

S. No	Chainage (Km)		Length (Km)	Dist Name	Forest Block Name	Area in (ha)
	From	To				
1	112+729	113+037	0.3	Alwar	RundhMojpur	3.080
2	129+790	129+986	0.20	Alwar	Bhedoli	1.933
3	157+366	158+376	1.01	Dausa	Bandikui PF	10.114
4	266+715	268+125	1.41	Swaimadhopur	Bhagwatgarh RF	12.739
5	270+045	270+275	0.23	Swaimadhopur	Bhagwatgarh RF	0.435
Total			3.146			28.301

NHAI vide letter no. 1013/1/2k/Env./598 dated 11/01/2019 submitted with MoEF&CC that the construction shall be restricted within 70m of the RoW as per MoRTH office Memorandum dated 03rd May, 2018. However, the land acquisition and diversion of proposal is under process as per direction of Govt. of India for implementation of Bharatmala Pariyojana keeping in mind uniformity of the RoW of entire stretch from Delhi to Mumbai for development of Greenfield project. The 100m RoW is considered for green belt development either side of the carriageway, future widening, land scaping, aesthetics, etc. as per surrounding. It is further undertake that no tree will be felled beyond 70m RoW except improvement of the junctions with existing highways due to Technical reasons for construction of interchanges, clover leaf, slip road, exit and entrance with access controlled expressway as per IRC SP-99 and MoRTH circular.

(xiv) **Investment/Cost of the project:** INR 5518 Crores.

(xv) **Benefits of the project:** The project will provide a better connectivity to Alwar, Dausa and SawaiMadhopur district in the state of Rajasthan. It will gear up the economic growth of the region by providing time optimised reach to the wide market of Capital City. The project will provide direct employment during construction phase; and also temporary indirect employment for Vendors, suppliers, electricians, plumbers and other allied industries and permanent indirect employment during the operations phase. The implementation will result in employment generation for cleaners, guards, local vendors, kiosk operators, drivers, doctors etc.

(xvi) **Employment potential:** Approx. 2400 during construction and 400 (approx.) during Operation phase total 2800 Nos.

(xvii) **ToR Details:** The ToR for the project was accorded vide letter No.10-61/2018-IA.III dated 14th January, 2019.

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(xviii) **Public Hearing:** Public Hearing was conducted at:

- 2nd January, 2019 at Campus, Sub-tehsil Baroda Meo, Tehsil Lakshmanghar, Alwar.
- 3rd January, 2019 at Conference Hall, SDO Office, Tehsil Nagar, Bharatpur
- 11th January, 2018 at Conference Hall, District Magistrate Office, Dausa
- 11th January, 2018 at Conference Hall, Panchayat Samiti, SawaiMadhopur

Major issues raised during the public hearing and response of project proponent: Project affected peoples are more concern about land rates to be given by acquisition authority (CALA). Some people suggest for water sprinkler to mitigate the dust pollution during construction.

(xix) **If any court case pending for violation of the environmental laws:** No.

4. The EAC, in its 208th meeting held on 19-20 February, 2019, has recommended the project for grant of Environmental Clearance for the development of the said project, subject to compliance of all generic conditions applicable for such projects, and the additional conditions as mentioned below. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project '**Development of 8 lanes (Greenfield Expressway) from Firozpur-Jhirka (km 79.394 Km) to Itawa (km 284.000 Km) Section of NH-148 N (Total length 204.606 Km) under Bharatmala Priyojana (Lot-4/Pkg-4) in the state of Rajasthan by M/s National Highways Authority of India**', under the provisions of the EIA Notification, 2006 and subsequent amendments/circulars issued thereon, and subject to the specific and general conditions as under:

PART A - SPECIFIC CONDITIONS

- (i) This Environmental clearance is subject to outcome of court cases pending against the project proponent at Hon'ble Supreme Court of India / High Court other courts, if any.
- (ii) The recommendations of Cumulative Impact Assessment studies shall be implemented under the intimation of the Ministry and its Regional Office concerned.
- (iii) Approval/permission of concerned authority shall be obtained before drawing water from the irrigation canal. State Pollution Control Board (SPCB) concerned shall not issue Consent to operate (CTO) till the project proponent obtains such permission.
- (iv) The proponent shall obtain permission from the competent authorities for tree cutting along the proposed alignment.
- (v) A comprehensive plan for afforestation including plantation of minimum three times of the number of trees required to be cut, by native species, be provided. The IRC Guidelines on Landscaping and Tree Plantation

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(2009) shall be strictly adhered while carrying out afforestation/plantation for this project.

- (vi) The RoW for construction of highway shall not exceed 70m at any point of the proposed 8-lane alignment, except for the junction improvement at the intersections of the other roads. No tree shall be felled beyond RoW.
- (vii) Fund provisions of Rs. 27.59 Crores (@ 0.5% of the total project cost of Rs. 5518 Crore) shall be provided for Corporate Environment Responsibility (CER) as per the Ministry's O.M. No. 22-65/2017-IA.III dated 1st May, 2018. The expenditure details, as per the plan, shall be submitted to the concerned Regional Office of the Ministry.
- (viii) The proposal involves diversion of 28.301 ha of forest land, for which the proponent shall obtain the Forest Clearance as required under the forest (Conservation) Act, 1980. Project proponent shall submit an undertaking that work on non-forestry land may only be executed upto such point (to be selected by the user agency) on either side of forest land if it is explicitly certified by the user agency that in case approval under the Forest (Conservation) Act, 1980, for diversion of forest land is declined, it is technically feasible to execute the project along an alternate alignment without involving diversion of forest land. Details of all such stretches along with alternate alignment identified to bypass the forest land should be explicitly provided in the proposal seeking approval under the Forest (Conservation) Act, 1980 and the EIA Notification, 2006.
- (ix) Commencement of work in non-forest land will not confer any right on the user agency with regard to grant of approval under the Forest (Conservation) Act, 1980.

PART – B: GENERAL CONDITIONS

- (i) Responsibility for implementation of EC conditions rests with the project proponent only.
- (ii) Cut and fill works shall be carried out strictly in accordance with the design drawings proposed at the time of appraisal of the project.
- (iii) The project proponent shall obtain necessary permission from the owning agencies of water bodies/temple/tanks etc., as applicable, before execution of works.
- (iv) The project proponent shall obtain necessary permission from the concerned State(s) Irrigation Department(s) before drawing water from the river sources for the purpose of the proposed construction activity.
- (v) 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 1000 m (200 m for pre-splitting) from the blasting site in all directions.



- (vi) The fly ash shall be used for the proposed project to comply with the Fly Ash Notification, 1999, as amended.
- (vii) Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs shall be carried out as per the extant policy of the Central/State Government, as provided under the law. All the Indian Road Congress (IRC) guidelines wherever applicable may be followed.
- (viii) All entry/exit/access points on this highway shall be appropriately designed and preferably frozen to avoid traffic congestion and pollution.
- (ix) Rain water harvesting including oil and grease trap shall be provided. Water harvesting structures shall be located at every 500 m along the road. Vertical drain type rainwater harvesting structures shall be set up to minimize surface runoff losses of rainwater.
- (x) All the recommendations of the EMP shall be complied in both letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF&CC.
- (xi) Green belt development shall be undertaken as suggested in EMP.
- (xii) Sidewalk shall be provided along the bridges.
- (xiii) The seismic nature of the area shall be taken into account while designing the project.
- (xiv) IRC guidelines shall be followed for widening & up-gradation of road.
- (xv) The drain shall be at least 1 m away from the toe of the embankment of the road adopting IRC guidelines.
- (xvi) 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.
- (xvii) The solid waste generated shall be used for rehabilitating the borrow areas.
- (xviii) For providing safety to the crossing animals and avoid road accidents speed breakers/rumbled strips shall be constructed at the identified locations of the animal movements. Enough hoardings and signages shall also be put up for the public and vehicles convenience.
- (xix) Necessary clearance/approval shall be obtained for extraction of sand from the rivers.
- (xx) The embankments/slopes and the slopes left after cutting shall be provided with vegetative growth to avoid soil erosion.
- (xxi) The hot mix plant shall be located at least 500 m away from habitation and on the barren land to avoid its adverse impact on the human population.
- (xxii) For road safety, IRC guidelines in respect of road signages, service roads, bus bays, inter-sections, pedestrian crossings, etc. shall be strictly adhered to.

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- (xxiii) The responses/commitments made to the issues raised during public hearing shall be complied in both letter and spirit. A hard copy of the action taken shall be submitted to the MoEF&CC and also to its concerned Regional Office.
- (xxiv) Beside fulfilling obligations under Corporate Social Responsibilities as per Company's Act, 2013, the proponent has to adhere to the followings Corporate Environment Responsibilities:
- (a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - (b) The Environment Policy shall prescribe for standard operating process/ procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions.
 - (c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
 - (d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
- (xxv) Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.
- (xxvi) Borrow sites for each quarry sites for road construction material and dump sites must be identified keeping in view the following:
- (a) No excavation or dumping on private property is carried out without written consent of the owner.
 - (b) No excavation or dumping shall be allowed on wetlands, forest areas or other ecologically valuable or sensitive locations.
 - (c) Excavation work shall be done in close consultation with the Soil Conservation and Watershed Development Agencies working in the area, and
 - (d) 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.
- (xxvii) As per MoEF&CC's circular no. J-11013/41/2006-IA.II (I) dated 22.09.2008, provision shall be made for supply of kerosene or cooking gas and pressure cooker to the labourers, mobile toilets, mobile STP, safe drinking water, medical health care, Crèche and temporary structures for living during construction phase.
- (xxviii) Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.

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- (xxix) Borrow pits and other scars created during the road construction shall be properly levelled and treated.
- (xxx) The project proponent will set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (xxxi) Full support shall be extended to the officers of this MoEF&CC and its Regional Office by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.
- (xxxii) MoEF&CC or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (xxxiii) In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the MoEF&CC.
- (xxxiv) The project proponents shall inform the Regional Office concerned as well as the MoEF&CC, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.
- (xxxv) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to MoEF&CC and its concerned Regional Office.

5. In addition to above mentioned conditions following general guidelines are to be adhered:

- (i) The above stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991, EIA Notification, 2006 and its subsequent amendments. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
- (ii) Officials from the Regional Office of the Ministry who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC should also be forwarded to its concerned Regional Office.
- (iii) In case of any change(s) in the scope, the project would require a fresh appraisal by the MoEF&CC.



- (iv) The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <http://www.envfor.nic.in>. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the concerned Regional office of the MOEF&CC.
- (v) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
- (vi) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/Tehsildar's office for 30 days.
- (vii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry, the respective Zonal Offices of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, PM_{2.5}, SO₂, NO₂ (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (viii) The project proponent shall also submit six monthly report on the status of the compliance of stipulated EC Conditions including results of monitored data (both in hard copies as well as by email) to the concerned Regional Offices of MoEF&CC/CPCB/SPCB.
- (ix) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry/CPCB/SPCB by e-mail.

6. This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.

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7. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

8. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

9. This issues with the approval of the Hon'ble MEF&CC.

Reena
30/4/2019
(Raghukumar Kodali)
Director/Scientist-F

Copy to:

- 1) The Secretary, Department of Environment, Government of Rajasthan, Jaipur.
- 2) The APCCF (C), Ministry of Environment, Forest and Climate Change, Cental Zone (CZ) Regional Office, Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, Lucknow – 226 020.
- 3) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
- 4) The Member Secretary, Rajasthan Pollution Control Board, A-4, Jhalana Institutional Area, Jhalana Doongri, Jaipur, Rajasthan 302 004.
- 5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6) Guard File/Record File.
- 7) Notice Board.

Reena
30/4/2019
(Raghukumar Kodali)
Director/Scientist-F