

F. No. 3-70/2020-IA.III [141127]
Government of India
Ministry of Environment, Forest and Climate Change
(IA Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi - 110003

Dated: 8th August, 2022

OFFICE MEMORANDUM

Subject: Clarification on the applicability of EIA Notification 2006 for excavation of Ordinary Earth from borrow area for linear projects - reg.

The Ministry, vide Notification S.O. 1224 (E) dated 28.03.2020, amended the appendix IX of EIA Notification to inter-alia provide exemption from Environmental Clearance (EC) for "*extraction or sourcing or borrowing of ordinary earth for linear projects such as roads, pipelines etc.*"

2. Subsequently, the above mentioned Notification was challenged before the National Green Tribunal, Principal Bench in Original Application No. 190/2020 in the matter of Noble M. Paikada Vs. Union of India & Ors., wherein the Hon'ble Tribunal while disposing of the application vide order dated 28/10/2020, *inter-alia* held that "*.....the exemption should strike balance and instead of being blanket exemption, it needs to be hedged by appropriate safeguards such as the process of excavation and quantum...*" and directed to revisit the impugned notification dated 28.03.2020.

3. Subsequently vide order dated 31/05/2022, the Hon'ble NGT in M.A. No. 07/2022(WZ) & M.A. No. 08/2022(WZ) in Original Application No. 68/2020(WZ) titled Shri Rajiv Babasaheb Waman & Ors. vs. Ministry of Environment, Forest & Climate Change & Ors inter-alia held that "*... that excavation of earth and mining of sand and other minor minerals being hazardous activity having serious adverse impact on environment in view of 'Precautionary' and 'Sustainable Development' principles, such activity cannot be left unregulated by statutory enforceable mechanism. Blanket exemption is against ecologically sustainable development norms and judgment of Hon'ble Supreme Court...*"


4. The matter was referred to the concerned Expert Appraisal Committee (EAC) for deliberation. After due deliberation, the EAC was of the opinion that if such linear project has obtained EC based on EIA studies incorporating such sourcing of construction material or other activities, necessary safeguards are already incorporated in the EC appraisal process. However, if such sourcing of material is not considered in the EIA or such linear project does not attract provisions of EC, then

such individual activities will be subject to extant environmental regulations as per EIA Notification 2006, as amended and/or applicable environmental safeguard related directions issued by the State Government /SPCB which need to be observed while sourcing construction material.

5. Based on the recommendations of the EAC and keeping in view the direction of Hon'ble NGT, the matter has been examined by the Ministry in detail and it has been decided that the exemption from EC provided vide S.O. 1224 (E) dated 28.03.2020 for "extraction or sourcing or borrowing of ordinary earth for linear projects such as roads, pipelines etc." shall be subject to Standard Operating Procedure (SOP) as enclosed to this Office Memorandum.

6. This is issued with the approval of the Competent Authority.

Encl: as above.


(Sundar Ramanathan)
Scientist 'E'

To

1. Chairman and Member Secretaries of SEIAA/ SEACs.
2. Chairman, Central Pollution Control Board (CPCB).
3. Chairpersons/ Member Secretaries of all SPCBs/UTPCCs
4. All the Officers of I.A. Division

Copy for information to:

1. PS to Hon'ble Minister for Environment, Forest and Climate Change
2. PS to Hon'ble MoS (EF&CC)
3. PPS to Secretary (EF&CC)
4. PPS to DGF&SS (EF&CC)
5. PPS to AS(TK)/PPS to JS (SKB)
6. Website, MoEF&CC/Guard file

SOP for Borrow Area Identification; its operation, safety and redevelopment

The activity relates to identification of borrow areas to obtain earth/soil materials; its operation, safety and redevelopment shall be carried out as per the following criteria:

1. Selection of site, operation and site-specific measures to adopt

- i. Environmental issues like siting borrow pit location, soil erosion aspects, accumulation of run-off and associated problems, disposal of debris by local community in open borrow area, transport of borrow earth to construction site, preservation of top soil of 15m depth and reuse for plantation, reinstatement of borrow pits and sites shall be considered before selection of site.
- ii. Guidelines, Manuals, Notifications etc issued by various agencies from time to time like IRC, MoRTH, MoEFCC etc shall be followed.
- iii. For selection of the site for the borrow area, agricultural land, cut material available from other road construction projects, dredging material from dredging operations of ponds, lakes, rivers and canals, material from barren land or land without tree cover outside the road RoW, material from excavation of proposed culverts can be considered. Provided further that, highly productive top-soil shall be stored separately and used for planation activity.
- iv. Borrowing shall be avoided on the lands close to toe line, irrigated agricultural lands, grazing land, lands within settlements, 1 Km from environmentally sensitive areas such as Reserve Forests, Protected Forests, Sanctuary, National Parks, Conservation Reserve, Wetlands etc, unstable and fragile side-hills, streams and seepage areas, areas supporting rare plants/ animal species. It should be ensured that unsuitable soft rock is not prominent within the proposed depth of excavation which will render rehabilitation difficult.

2. The General Guidelines

- i. The preservation of topsoil will be carried out in stockpile.
- ii. A 15 cm topsoil will be stripped off from the borrow pit and this will be stored in stockpiles in a designated area for height not exceeding 2m and side slopes not steeper than 1:2 (Vertical: Horizontal).
- iii. Preservation of Top Soil of 15cm depth and its reuse for plantation
- iv. Validation of the work of re-use of Top Soil by the AE/IE. Competent authority to check the re-use anytime if warranted.
- v. Borrowing of earth will be carried out up to a depth of 2m from the existing ground level.
- vi. Borrowing of earth will not be done continuously throughout the stretch.
- vii. Ridges of not less than 8m widths will be left at intervals not exceeding 300m.
- viii. Small drains will be cut through the ridges, if necessary, to facilitate drainage.
- ix. Depends upon the location of borrow areas, the safeguard measures & management specific treatment as a particular borrow area depending upon its

location viz Agriculture Land, Elevated Land, Waterbody, near Settlement and along the alignment.

3. Re-development of Borrow Areas

The objective of the rehabilitation programme is to return the borrow pit sites to a safe and secure area, which the general public should be able to use safely. Securing borrow pits in a stable condition is fundamental requirement of the rehabilitation process. This could be achieved by filling the borrow pit approximately to the road level. Following measures shall be taken for Rehabilitation:

- i. Borrow pits shall be backfilled with rejected construction wastes (unserviceable materials) including fly ash, compacted and will be given a turbing or vegetative cover on the surface. If this is not possible, then excavation slope should be smoothened, and depression is filled in such a way that it looks more or less like the original ground surface.
- ii. During works execution, the Contractor shall ensure preservation of trees during piling of materials; spreading of stripping material to facilitate water percolation and allow natural vegetation growth; re-establishment of previous natural drainage flows; improvement of site appearance; digging of ditches to collect runoff; and plantation may be carried out wherever feasible or pit may be developed for water storage as per Amrit Sarovar Scheme of MoRTH.

4. Development of Amrit Sarovar

Under Amrit Sarovar Programme, water bodies are being developed by MoRTH/NHAI/other road development agencies and the desilting of existing water body is also being taken up for water harvesting and re-charge of ground water. The earth available from development of such water bodies is to be utilised for road works and plantations as per suitability of soil. The State Authorities have already been advised not to levy any royalty for borrowing of earth for development of water bodies under Amrit Sarovar Programme.
