Full Title of the Project: Kandla Gorakhpur LPG Pipeline Project

Proposal No.: FP/UP/Pipeline/42798/2019 Forrest Land Proposed for Diversion: 3.9806 Ha.

#### **MUCK DISPOSAL CERTIFICATE**

M/s IHB Private Limited, the user agency is hereby certified that the proposal of forest land diversion of 0.6943 hectare social forestry division in District under Raebareli by which reserve forest land diversion proposal of 0.2142 hectare forest land under Shyampur reserve forest Tehsil- Lalganj, 0.2216 hectare forest land under Jagatpur Ramgadi reserve forest Tehsil-Lalganj, 0.0056 hectare at Railway Line (Radhabalampur-Ubarni) Village-Jagatpur Bardhara, Tehsil-Dalmau, 0.2300 hectare forest land under Sudhamapur reserve forest Tehsil-Unchahar, 0.0150 hectare forest land under Shahabad reserve forest Tehsil-Unchahar, 0.0049 hectare at Railway line (Unchahar-Ramchandrapur) Village-Miyapur, Tehsil-Unchahar and 0.0030 hectare at National Highway-30 (Unnao-Raebareli) Village- Sawaiya Hasan, Tehsil-Unchahar in District Raebareli for Laying of proposed 16 inch diameter LPG Pipeline from Unnao – Gorakhpur section under Kandla-Gorakhpur LPG Pipeline Project. The soil digging will not be done in the protected forest land but in the reserve forest area the pipeline will be laid through open cut method whereas the user agency will ensure complete disposal of muck by utilizing complete muck in project activities during laying of proposed LPG pipeline. Hence Muck disposal plan is not permissible for Kandla – Gorakhpur LPG pipeline project.

# Disposal/ Management Plan

While preparing FCA Case, if there is any activity in the project involved digging of Land, muck disposal/management plan has to be prepared.

It should include of the following,

- 1. Calculation of muck to be generated self factor has to be applied.
- 2. Quantity of muck to utilized in the project activities.
- 3. Balance quantity of muck which requires disposal/ Management plan?
- 4. Carriage of muck from the muck generation site to the dumping site?
- 5. Ownership of land and the consent of land owner, in case muck disposal on non forest land.
- 6. Photograph & carrying capacity of proposed dumping site. (Muck disposal site)
- 7. Development of dumping site construction of retaining walls and other structure as per requirement of the site. The objectives is to complete stop rolling down of the muck.
- 8. Rehabilitation of dumping site like leveling planting of grass, shrubs and trees species.

### After Construction work of approach road will be done.

Cost to be incurred on the above activities has to be given as component wise. Details of dumping site including length, width and height of structure to be exacted must be mentioned.

## Undertaking by the user agency has to be given to the effect that:

- 1. Muck management plan will be implemented by the user agency and in case of non implementation of the play, they will be liable to the penalty / action at the cost.
- 2. The proposed dumping site is located away from river/ stream/ Nala.

M/s IHB Private Limited

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Chief Manager (Project)

(Amit Jain)

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#### **Calculation of Muck**

## Quantity of excavation:

Pipeline length = 0.680 km

= 680.80 m (L)

Pipeline trench width = 1.2 m (B)

Pipeline trench depth = 1.5 m (H)

Quantity of earth excavation for pipeline trench = L X B X H

= 680.80 X 1.2 X 1.5

= 1225.44 cum

## Pipeline volume in trench

Pipeline diameter (considering maximum size of pipeline as 16" OD) = 16 inch = 0.406 m (D)

Area of circular cross section = (pi X D2)/4 = 0.130 sqm (A)

Pipeline volume = A X L = 0.130 X 680.80 = **88.504 cum** 

Quantity of soil backfilled with proper compaction = 1225.44 - 88.504 = 1136.936 cum

Total extra excavated earth = Pipeline volume in trench = 88.504 cum

We consider approx. 200 mm to 250 mm convex shape crown over the 1.2 m width of trench considering the shape is near to triangle with a base of 1.2 m width.

Volume of crown = 680.80 X 0.5 X 1.2 X (0.200 + 0.250)/2 = 91.908 cum

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