



VISAKHAPATNAM PORT TRUST
TRAFFIC DEPARTMENT



NO. ITRA/REV/FCCM/3119

Dt. 07.08.2020.

CIRCULAR NO.1297

Sub: Stacking of cargoes like Iron Ore, Bauxite, Coal Manganese etc by the side Railway lines – Precautionary measures to prevent occurring upheavals in Port area– Reg.

Ref: Executive Engineer (Rlys) Ir. No. IENG/E.E.(Rlys)/Misc/2020/56, dt. 22.7.2020.

In connection with the subject issue, it is to inform to all the trade that, the Chairman/VPT directed to circulate the precautionary measures including permissible stack heights (**ANNEXURE**) to Private / Shipping Agencies in the Port area for strict compliance as advised by the Andhra University to avoid upheavals, ground splitting and Heaving problem in Port area.

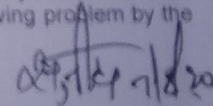
The following are the precautionary measures to be ensured.

- Stack height should be restricted such that shear displacement / plastic flow do not occur in marine clay.
- The stacking area must be at a clear distance of at least stack width (B) from existing structures to avoid any damage resulting from heaving of ground if any.

Following recommendations have been made by the committee on damages occurred to M/s.ESSAR conveyor supports.

- Advised to avoid iron ore stacks in this area as the soft marine clay will induce heaving up to greater distances depending on height and extent of stack as well as thickness of soft clay.
- However up to a minimum distance of 50m no stacks shall be provided as such it is recommended to leave 50m. wide corridor along the conveyor.
- Recommended to construct a boundary wall at distance of 50m. from conveyor to ensure that dumping of ore will not take place even in emergency situations.
- Allowable bearing capacity of marine clay will be of the order of 1.5 to 3 t. / m² (Ultimate bearing capacity of 4 to 6 t. /m²), if stacking is done in excess of 2-3m. large shear displacements occur in soft marine clay and lead to upheaval in the area adjacent to loaded area. Hence, it is not advisable to load any material in stacks of height exceeding 2/3 m.

All the Trade are hereby requested to comply the above precautionary measures while stacking the various cargoes to avoid upheavals, ground splitting and Heaving problem by the side of Railway lines in Port area.


TRAFFIC MANAGER

- C/- P.S to Chairman for information of Chairman.
- C/- P.S to Dy.Chairman for favour of information of Dy. Chairman.
- c/- Task Force Team.
- C/- P.A to TM for kind information of Traffic Manager please.
- C/- The Chairman, Visakhapatnam Steamship Agents Association, VSP
- C/- The President, Visakhapatnam Stevedores Association, VSP
- C/- The President, Visakhapatnam Clearing & Forwarding Agents Association.
- C/- All Trade - for information.
- C/- All officers – for information.
- C/- Chief Engineer for information w.r.t. his letter under reference cited.
- c/- Environment cell for information and necessary action.
- C/- Joint Director (R&P) -for information and to post in Port web site.
- C/- ATM(R)/TI(R)/TI(C)/DI(G)/DI(C) - for information and necessary action..