

Condition Assessment of lump ore Stacker and Reclaimer at NMDC, Donimalai

Sponsor: NMDC Ltd. Donimalai

- The condition assessment of ageing structures is the significant task in view of life extension of critical structures consisting of selected stationery mechanical structures of OCSL plant, NMDC Donimalai
- Condition assessment was carried out as a part of structural integrity assessment
- The detailed investigation was recommended to assess the structural integrity and vibration for the supporting structures of Generator and Turbine foundations
- The existing condition was determined based on detailed measurements like vibration severity and thickness measurements apart from visual inspection. A thorough inspection on the reclaimer and stacker revealed certain salient features associated with the functionality of the structure
- Various responses were recorded and analyzed to ascertain the condition of the structure and to reduce the local damages. Suitable recommendations and suggestions are made to maintain the functionality of the mechanical component and hence the structural integrity



Stacker



Reclaimer



Measurement in Progress



Outgoing boom Conveyor- Visible damages