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Case Study: **Hydraulic Piping for the Sinter Plant Granulator - Chattisgarh, INDIA**

Project No: **3959**

National Mineral Development Corporation (<https://www.nmdc.co.in/>) is one of the state controlled mineral producers of the Government of India. NMDC awarded Rs. 760 crore (116 Million USD) turnkey project to build a Sinter Plant to a consortium. For their Nagarnagar Steel Plant in Jagadalapur, Chattisgarh. The responsibility of building their Sinter Plant to Primetals, Austria (<http://primetals.com>). NMDC being the 8<sup>th</sup> largest Iron Ore producer in the world wanted a state of the art plant built.



Primetals decided to go with Tube-Mac Non-Welded Piping Systems for the hydraulic hardline of the Hydraulic Granulator in the Sinter Plant.

The hydraulic piping system was manufactured as a [pre-fabricated piping system](#) in TMI's Austrian Facility and shipped to Jagadalapur, Chattisgarh for installation.

Features of the granulator hydraulic piping system are as follows:-

1. Technology : **Tube-Mac Non Welded Piping – 37 Degree Flare Flange and Retain Ring Flange System**
2. Pipe Sizes : **4" NPS, 80 mm Metric**
3. System Pressure : **315 bar**
4. Piping Length : **Approx 350 mtr (4 lines – Pressure, Return, Drain, Flushing)**

The scope of work was as follows:-

- a) Design and Supply of Pre-Fabricated Non-Welded Hydraulic Hardline.
- b) Installation of the Hydraulic Piping System.



**Hardline Installation**



**Hardline Installation**





**View of erected piping**



**Hardline connected to be connected to the Hainzl HPU**

The hardline was installed under the supervision of Cenergy Offshore Supervisor to ensure reliability and integrity of the piping system.