

Department : **Mechanical**

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Group No: **6**

Guided By

PROF. J. B. PATEL

SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Project Title

A CONCEPT DESIGN OF MATERIAL HANLING SYSTEM FOR STONE MINING INDUSTRIES

Abstract:

In rock/stone mining industries large stone as raw material need to be transported from deep mine to ground floor and from ground floor to crusher plant. The distance of material/raw material handling is varying from mine to mine. Material handling equipment are designed such that they facilitate easy, cheap, fast, safe and continuous material handling with least human interference. For instance belt conveyor and crane system can be employed for easy handling of materials beyond human capacity and conventional vehicles like trucks and tractors in terms of weight and height.

This project works on selection of material handling equipment, basic design, considering belt conveyor system and crane. For crushed stone with maximum loading capacity, in order to ensure fast, continuous and efficient movement. It is able to give appropriate work at different site locations.

After completion of this project work achieved data can be used for industrial application and also beneficial for belt conveyor and crane development which is capable to work easy, fast and economical as compare to current scenario.

Prepared By:

Sr. No.	Student Name	Enrollment No
1	PATEL RUCHIL A.	120780119023
2	PATEL KAVIT M.	120780119049
3	PATEL BHAVIK K.	120780119001

