

Detail Design calculation , FEA Stress Analysis and Detail fabrication Drawing for 30 TPH Apron Feeder for AFR material handling

THE CLIENT

A India-based client offering an array of customized solutions to cement industries with customized material handling equipments.

THE BUSINESS NEED

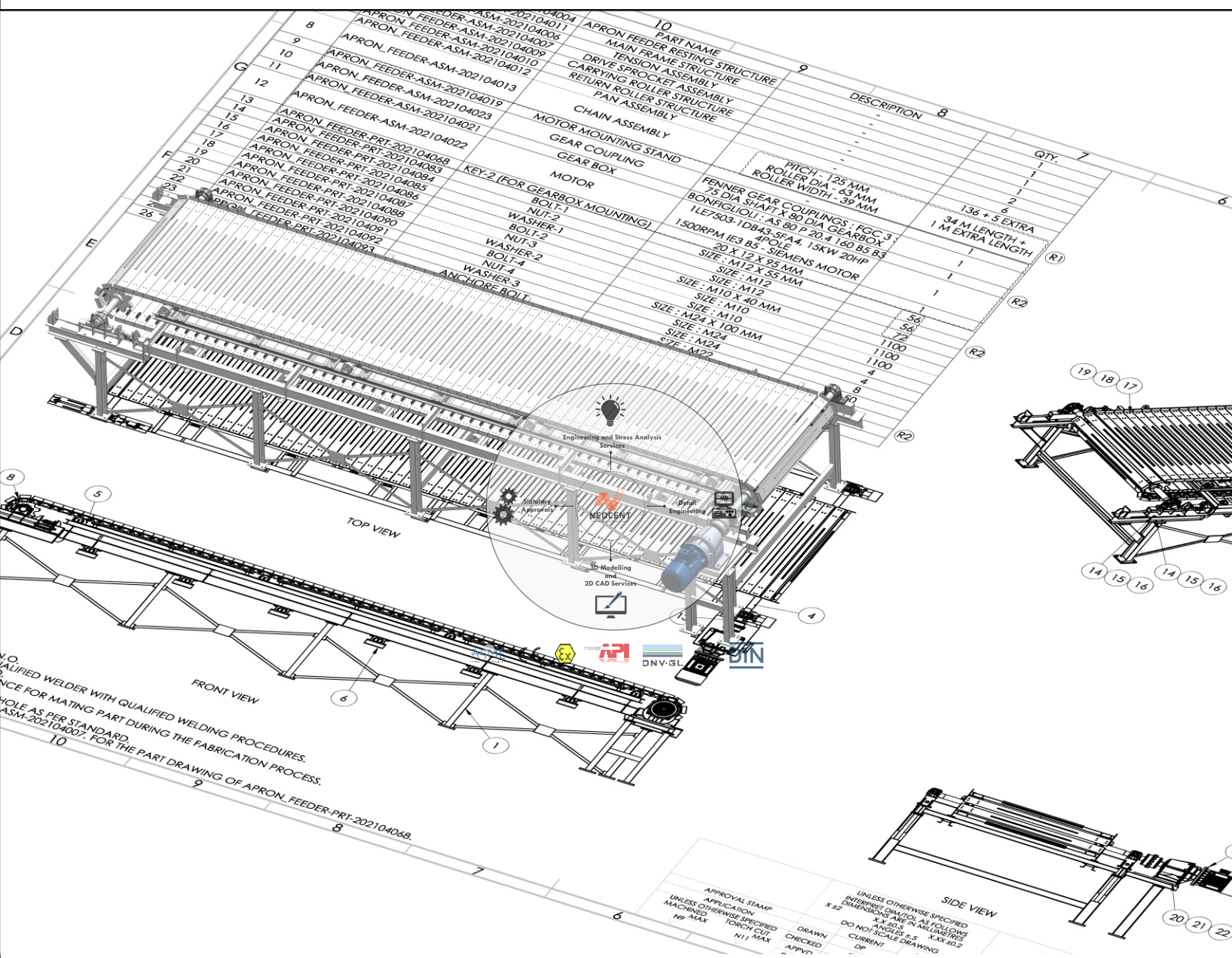
Our client was seeking engineering design assistance for a 30 tph Apron feeder structure design. Client wanted Stress simulation on Apron feeder Structure with IS:875 wind applicable code and Seismic for manufacturing approval process.

NEOCENT SOLUTION & DELIVERABLE

Detail Engineering : Mechanical detail design for Apron feeder Structure, Foundation load calculation, Lifting and transportation load calculation , Lifting Lug details calculation etc...

CAD Detailing : G.A. Drawing , Details fabrication drawing ,3D Modeling Hopper Structure, Transportation Support Drawing, Lifting and Erection Drawing.

Analysis : Structure Stress Analysis



Neocent Engineering Services is a multi-discipline engineering services company. Established in 2015, we offer high-quality engineering support solutions to global EPC organizations across some of the industries listed: Automotive, Aerospace, Turbo machinery, Heavy engineering, HVAC, Oil & Gas, Material handling and Process industry.

Neocent provides detailed engineering services to EPC, EPCM, OEM, and PMC as long-term turnkey projects. Our EPCM services include Project Management, Feasibility Studies, Conceptual & Basic Engineering, Detailed Design, Procurement, Construction Management, Commissioning & Start-up, and Operations & Maintenance.

Neocent Engineering's service offering, include;

- Engineering and Stress Analysis Services
- Details Engineering
- 3D Modelling and 2D CAD Services
- Statutory Approvals

3D Modeling and 2D Detailing Consulting Services

Neocent Engineering offers a vast-domain industry experience with a plethora of CAD design and drafting services, Catering to companies various 2D Design requirements. Our team can create an accurate 2D representation of your simple sketch, a detailing drawing, or a full-scale 3D model.

- Preparation of PMS & Material requisition.
- Modeling of Civil/structural elements such as equipments foundation, Platform and walkways(or ladders, railings, manholes, envelopes, pipe rack, skid base frame, lifting lug, or anchor bolts), with input from detailed 2D Drawing in DWG format.
- Piping Support Modeling as per industry standard along with inter connecting pipe routing design and details 2D isometric drawing for fabrication.
- Multi Disciplinary 3D CAD Design model helps implement the extraction of equipments layouts, general arrangement drawing, Piping isometric, nozzle orientation drawing, fabrication drawing, and material take off (MTO)/ bill of material(BOM).

Neocent Engineering offers a full range of 3D Design and service. We offer multi disciplinary plant modeling services involving the manner in which optimum piping routes are developed from an operational, maintenance and safety perspective. Our team of expert CAD professionals and design engineers collaborate with EPCs, Engineering consultancies, and OEMs to deliver quality 3D modeling services. With extensive on site experience, Our team creates real time walkthrough as digital models, Offering a comprehensive understanding of the facility before construction begins.

In brief, clients come to us when they need high-quality work executed and documented to withstand the most rigorous reviews.

Contact Details

Email : sales@neocentengineering.com

Website : www.neocentengineering.com

Linked in : <https://www.linkedin.com/company/neocent-engineering>

India Contact : +91- 8000 860 806

Canada Contact : +1 (226)961-5067

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