

PORT LOGISTICAL INFRASTRUCTURES

You ask for, shall endeavour to do our best



Portable Barge Loading System



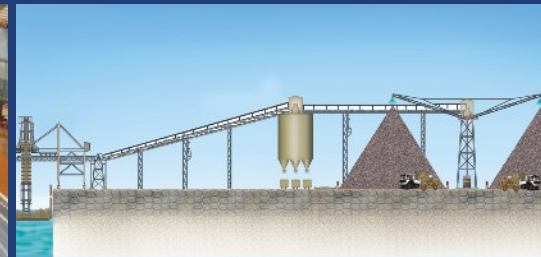
Mobile Ship Loading System



Barge Unloading System



Cargo Storage & Distribution



Coal Unloading, Conveying, Storage & Dispatch - Integrated Installation



ENGINEERING COMPANY PVT. LTD.

- BULK MATERIAL HANDLING SYSTEMS & EQUIPMENTS
- COAL PROCESSING AND HANDLING SYSTEMS
- SEA PORT MECHANISATION
- DUST COLLECTION SYSTEM
- TECHNICAL CONSULTANCY



PORT LOGISTICAL INFRASTRUCTURES

Welcome Aboard

Port Authorities, Jetty Owners, Ex-Im Traders, Warehouse Owners,
Shipping Agents.

For

Cost Effective Customised Logistical Solutions of
Mechanised Ship / Barge Loading / Unloading, Cargo Stacking /
Piling / storage, Cargo Conveying / Shifting, Cargo
Reclamation / Dispatch From Within Storage Godowns /
Warehouses / Silos

The Cargo Be In Form of

Dry Bulk, Powdery, Sized Particles or In Assorted Forms
Likes of

Salt, Fertilizer, Coal, Lignite, Bauxite, Ores, Wheat, Rice, Pulses, Maize,
Soya, Oil Seed Extracts (Meals)

What we think...

We Do Not Consider Any Assignment
Too Difficult To Attempt For Solution,
Only It Should Be Challenging To Our Expertise And Indignity

Afford Us An Opportunity By Confining In Your
Requirements / Constraints / Problems.
We Assure You Of Cost Effective Turnkey Solution

With Guaranteed Economy of
Operation & Host of Logistical Advantages Coupled With
Environment Friendly Working - Compliant With Pollution Control Norms

Key Features :

- Logistically & environmentally integrated unique concepts.
- Concept Inclusive past experience & future needs perceptive.
- Contemporary design & engineering.
- Latest in hydraulics, controls & operating system.
- Quality Inputs.
- Excellent workmanship.
- Assured performance & consistent output.
- Dependable after sale services.
- All these with techno-economic feasibility verification





Portable Barge Loading System

Portable Barge Loading System at Ruchi Jetty, New Port Jamnagar, Deployed on BOO Basis
Capacity - @ 450 TPH of DOC

CRITICAL PARAMETERS AND METHODOLOGY OF LOADING

Mode of receipt of cargo	: Through 25T trucks in bag form
Concept of feeding	: Bleeding bags onto hopper conveyor
Nos. of trucks docked for unloading	: 10 to 15 at a time
Bags handling and bleeding	: Manual
Cargo receiving & conveying capacity	: @ 450 TPH Dry bulk cargo of 0.7 T/M ³
Barge loading capacity	: @ 450 TPH - Dry bulk cargo of 0.7 T/M ³
Power in put	: @ 40 KW.
Portability	: Towed by pay loader or truck
Suitability of handling and loading of	: Dry bulk sized cargo

LOGISTICAL ADVANTAGES

- No bulking of cargo, that is keeping buffer stock in form of heap on jetty.
- No use of pay loader .
- No need of crane or ship gear.
- No spillage of cargo on jetty.
- No dependence on external source of power supply.
- No damage to cargo in absence of pay loader operation.
- Highly enhanced loading capacity.
- Quick and speedy turn around of barges.
- Elimination of multiple handling of cargo and consequently no degradation of commodity like wheat or other grains.
- Since system is portable, can be moved as per requirement along the length of jetty or can also be parked at appropriate place during nonuse.
- By virtue of principle of operation of system, it is highly reliable and dependable.
- Delegation of operation in total, Have to manage only agency.



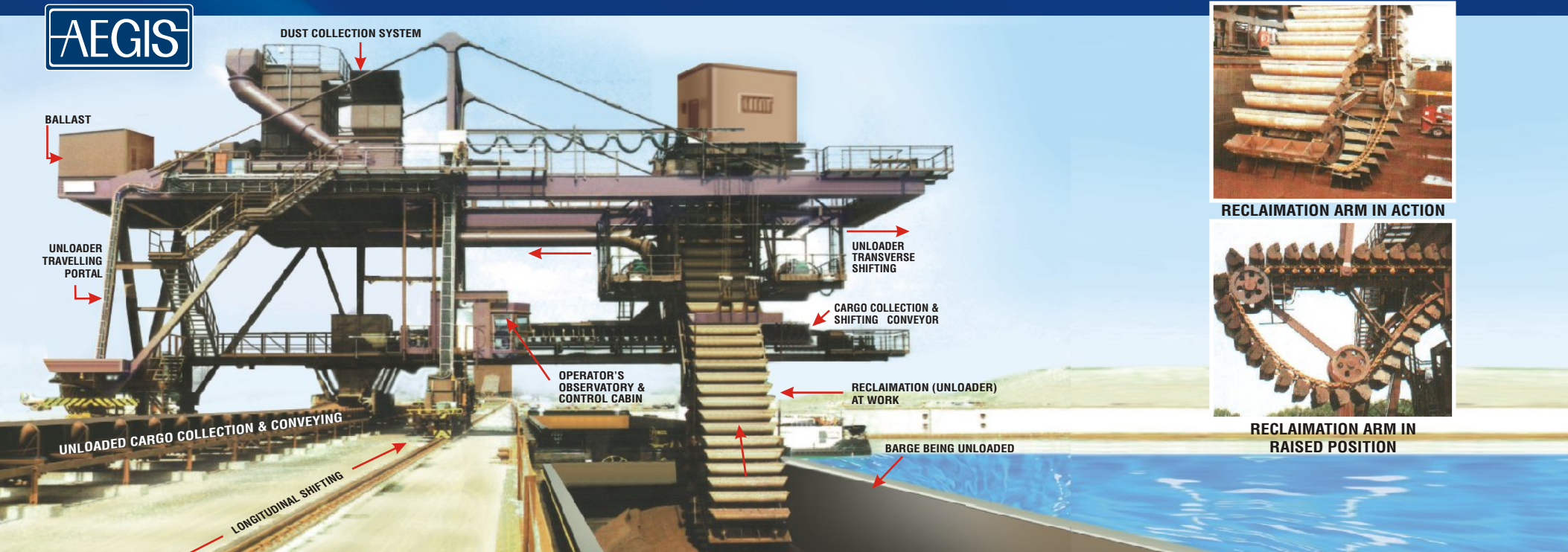
Mobile Ship Loading System - As proposed to Kandla Port Trust on BOO basis

CRITICAL PARAMETERS AND METHODOLOGY OF LOADING

Mode of receipt of cargo	: Through 25T dumper trucks
Nos. of trucks docked for unloading	: 1 to 3 at a time
Cargo receiving & conveying capacity	: @ 1500 TPH Dry bulk cargo of 0.7 T/M ³
Ship loading capacity	: @ 1500 TPH - Dry bulk cargo of 0.7 T/M ³
Power in put	: @ 150 KW.
Portability	: Self propelled
Suitability of handling and loading of	: Dry bulk sized cargo

LOGISTICAL ADVANTAGES

- No bulking of cargo, that is keeping buffer stock in form of heap on jetty.
- No sacking of cargo.
- No need of crane or ship gear.
- No spillage of cargo on jetty.
- No dependency on external source of power supply.
- No damage to cargo in absence of pay loader operation.
- No elaborate planning and co-ordination of operation of various agencies.
- Highly enhanced loading capacity.
- Quick and speedy turn around of ship / barge and hence port capacity could be utilized to its fullest extent.
- Elimination of multiple handling of cargo and consequently no degradation of commodity like wheat, other grains, DOC etc.
- Almost no need of manual labour.
- Since the system is mobile, can be moved as per requirement along the length of jetty or can also be parked at appropriate place during nonuse.
- By virtue of principle of operation of system, it is highly reliable and dependable.
- Hassle free quiet operation.



Continuous Ship & Barge Unloader

TECHNICAL AND OPERATIONAL PARAMETERS

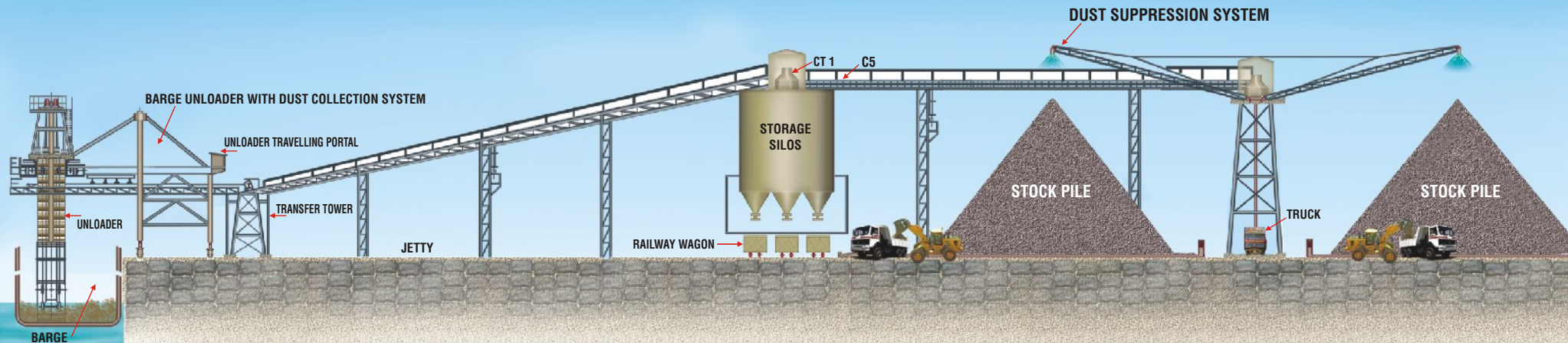
Application	: To unload open top ships & barges
Commodity to unload with	: Oil seed extracts (meals), coal, ore or any dry & sized import cargo.
Nature of unloading	: Continuous
Unloading capacity	: @ 1050 TPH for meals & coal @ 2100 TPH for iron ore
Unloader portal guage	: @ 12M
Portal travel - longitudinal	: @ 250M

Out reach of unloader bucket	: @ 11M from jetty edge
Unloader operational position	: 45° to 70° with horizontal
Idling position of unloader	: Horizontal
Transverse movement of unloader	: @ 7M
Destuding operation	: Provided on unloader portal
Connected power	: @ 500 KW
Specific power consumption of unloading system	: @ 0.25KW / T of commodity unloaded.



Cargo Storage & Even Distribution

100 TPH capacity Godown Loading/Distribution System for DOC (de-oiled cake) consisting of overhead belt conveyor with travelling tripper, diverter valve and set of cross conveyors integral with travelling carriages - As Implemented for Gokul Refoils & Solvent Ltd.



Coal Unloading, Conveying, Storage & Dispatch - Integrated Installation

Coal Unloading From Barges, Conveying, Silo Storage, Pile Storage Rated at @1000tph & Dispatch to Hinterland Destination by Rail & Road (Integrated Installation as Proposed to Gujarat Maritime Board for Navlakhi Port on BOT basis)



9 Nos. of Barge Loading Conveyors

9 Nos. of Cargo Lifting Elevators

9 Nos. of Telescopic feeding Chutes-Mechanised

Cargo Storage Godowns-Mechanised

Barge Docking

Jetty

EXPORT CARGO RECEIVING, GODOWN STORAGE, CARGO RECLAMATION & BARGE LOADING SYSTEM RATED AT 1000 TPH FOR DEOILED CAKES

Implemented on Turnkey Basis and Operated at Anticipated Performance for Gujarat Maritime Board at Bedi port, Jamnagar.



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