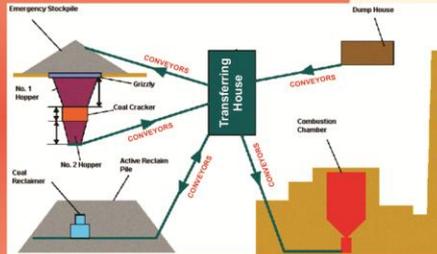


## TURNKEY SOLUTIONS FOR BULK MATERIAL HANDLING SYSTEMS

### COAL HANDLING SYSTEM

VPPL specializes complete Design, Engineering, Supply, Erection, Testing and Commissioning of COAL HANDLING SYSTEM which finds its usage in coal based Thermal Power Plants and Coal Handling Plants for transferring COAL from Unloading Hoppers Point (through bucket elevators/ belt conveyors) to Boiler Bunkers Point (Includes Stock yard points) as per customer requirements.



Coal Handling System generally consist of Feed Hoppers, Rack and Pinion Gates, Flap Gates, Electromagnetic / Electromechanical Vibro feeders, Feed Belt conveyors, Magnetic Separators, Metal Detectors, Vibrating Screens, Crushers, Recycle Bucket Elevators / Recycle Belt Conveyors, Product Bucket Elevators / Product Belt Conveyors, Shuttle Conveyors, Drag Chain Conveyors,

Storage Bunkers, Belt Weigher, Dust Extraction & Ventilation, Dust Supression System, Travelling Tripper etc.

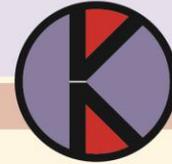
### PNEUMATIC CONVEYING SYSTEM

VPPL undertakes design, engineering, manufacture, supply, installation & commissioning of Pneumatic ConveyingSystem for bulk solids.

Specific materials may require conveying in an enclosed form with layout constraints, it is preferred to convey materials in pipes using Pneumatic System instead of conventional modes of transporting and conveying these materials.

Pneumatic Conveying System consists of Vacuum-type and Pressure-type. The pressure-type systems are broken down into Lean-phase and Dense-phase Pneumatic Conveying System.

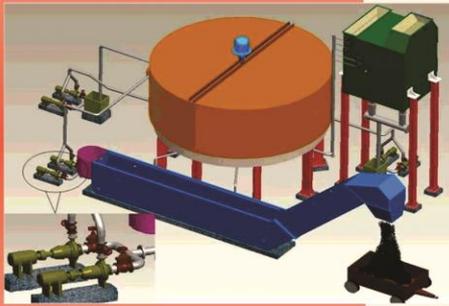




## TURNKEY SOLUTIONS FOR BULK MATERIAL HANDLING SYSTEMS

### ASH HANDLING SYSTEM

VPPL undertakes complete Design, Engineering, Supply, Erection, Testing and Commissioning of ASH HANDLING SYSTEM



The use of fuels, either solids or liquid in the production of electrical power or industrial combustion processes, produces ash which requires different type of handling. The fraction that accumulates at the bottom of the boiler, known as BOTTOM ASH, is generally in the form of pieces & requires mechanical, hydraulic or pneumatic conveying handling systems.

The more volatile part, known as FLY ASH, is dragged along by the gasses and deposited in the bottom of ash hoppers in the equipment down stream of the boiler, such as economisers, air pre heater, duct hoppers, electrostatic precipitators, stack hoppers and is normally removed in pneumatic conveying system or hydraulic systems.

### Bottom Ash Systems

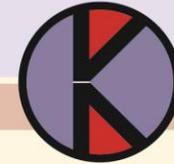
- ★ Water impounded BA hopper with hydro jet pump or ash slurry pumps to discharge bottoms Ash up to ash slurry sump / ash disposal area.
- ★ Dry type BA hopper with submerged scraper conveyor or continuous discharge of ash in wet slurry form.
- ★ Hydro bin for bottom ash storage.
- ★ Vacuum pneumatic conveying utilizing mechanical exhausters (vacuum pumps), Vacuum produces, etc.
- ★ Dense Phase Pneumatic conveying system.

### Fly Ash Handling Systems

#### Fly Ash Handling Systems

- ★ Vacuum pneumatic conveying system by utilizing mechanical exhausters, (vacuum pump) vacuum producers and steam ejectors.
- ★ Vacuum cum pressure pneumatic conveying system.
- ★ Dense phase pneumatic conveying system to convey upto storage silos.
- ★ Fly ash storage silos.





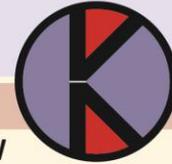
## TURNKEY SOLUTIONS FOR BULK MATERIAL HANDLING SYSTEMS

- ★ Feeder ejector system and disposal of ash in slurry form upto ash slurry sump and further by AD pumps upto disposal area.
- ★ Continuous discharge of fly ash in wet slurry form through flushing apparatus.
- ★ Dry mechanical conveyors.

### BAGASSE HANDLING SYSTEM

**VPPL** undertakes complete Design Engineering, Supply, Erection, Testing and Commissioning of BAGASSE HANDLING SYSTEM which finds its usage in Sugar, Co-generation, Power & Paper as per customer requirements. Bagasse Handling System generally consist of Belt Conveyors, Screw Feeders, Drum extractors, Drum feeders Silos, De-bailers, Crushers, Belt Weigher Slat Chain Conveyors / Elevators Vibrating Screen, Stock/Bagasse Shed Submerged Conveyors, Rotary Air Locks Magnetic Seperator, Metal Detector etc.



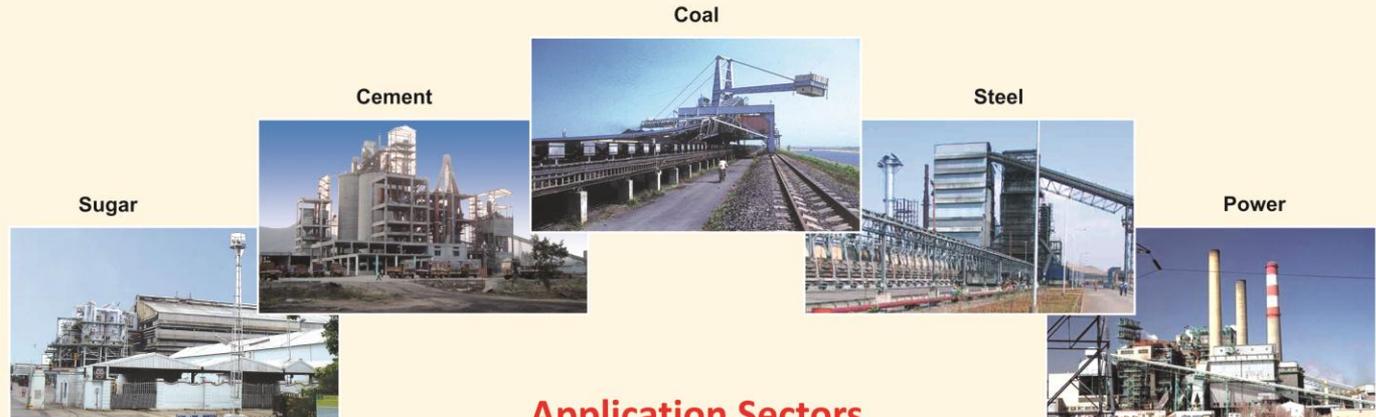


## TURNKEY SOLUTIONS FOR BULK MATERIAL HANDLING SYSTEMS

### PROJECT DIVISION

VPPL undertake Projects on **Turnkey** basis from **Concept** to **Commissioning** of all types of Material Handling Systems of above.

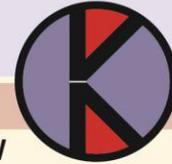
VPPL is equipped with spacious Manufacturing Facilities backed by specialized machinery & in-house heavy fabrication facility base in meeting the requirements of **BULK MATERIAL HANDLING SECTORS.**



### Application Sectors

Also SPONGE IRON, PAPER, MINERALS, CERAMICS, FERTILIZERS  
GLASS, BUILDING MATERIALS & related Industries.



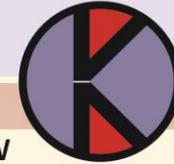


## TURNKEY SOLUTIONS FOR BULK MATERIAL HANDLING SYSTEMS

Design, Engineering, Manufacturing, Supply & Services

TURNKEY PROJECTS	PROJECT MANAGEMENT
<ul style="list-style-type: none"><li>● Coal Handling Systems</li><li>● Ash Handling Systems</li><li>● Pnuematic Handling Systems</li><li>● Baggasse Handling Systems</li></ul>	<ul style="list-style-type: none"><li>● Consulting Services</li><li>● Equipment Sourcing</li><li>● Engineering and CAD Services</li></ul>





## TURNKEY SOLUTIONS FOR BULK MATERIAL HANDLING SYSTEMS

### PRODUCT DIVISION

Design, Manufacture & Supply

	CONVEYORS	EQUIPMENTS
<b>Material Handling Systems</b>	<ul style="list-style-type: none"> <li>• Belt Conveyors &amp; Accessories</li> <li>• Sub Merged Conveyor</li> <li>• Screw Conveyors</li> <li>• Slat Chain Conveyors/Elevators</li> <li>• Tripper Conveyors with Bunker Sealing Arrangements</li> <li>• Shuttle Conveyors</li> <li>• Drag Chain Conveyors</li> <li>• En Mass Conveyors</li> </ul>	<ul style="list-style-type: none"> <li>• Bucket Elevators</li> <li>• Screw Coolers</li> <li>• Screw Feeders</li> <li>• Rotary Table Feeders</li> <li>• Rotary Feeders</li> <li>• Wet Scrappers</li> <li>• Air Slides with Blowers</li> <li>• Storage Bunker with Ash Conditioners.</li> </ul>
<b>Flow Control Products</b>	<ul style="list-style-type: none"> <li>• Rotary Air Lock</li> <li>• Flap Gates / Diverting Gates (Manual / Motorized / Pneumatic type)</li> <li>• Double Flap Valve</li> <li>• Pin Gates</li> <li>• Rack &amp; Pinion</li> <li>• Slide Gate</li> </ul>	
<b>Custom Fabrication</b>	<ul style="list-style-type: none"> <li>• Stock / Baggasse Shed</li> <li>• Inter Connecting Chutes</li> <li>• Hopper's</li> <li>• Plough arrangements</li> <li>• Ducting (Tunnel Ventilation, Dust Separation &amp; Dust Extraction)</li> </ul>	

