

Front End Loader (Pay Loader)

The front end loader / pay loader is used heaping up the coal / stone chips within the stockyard. The general technical parameters governing the design of the pay loader shall be as follows:

Capacity of bucket	:	3 cum
Bucket width	:	About 3 m
Static tipping load	:	About 13 T
Operating height	:	Not less than 5.4 m
Turning radius	:	Not more than 6.5 m
Dump angle	:	Not less than 50
Dump reach	:	Not less than 2.4 m

Road Weigh Bridge

The weigh bridge structure shall be robust in construction with ample safety margin above the rated capacity.

The lower structure of the platform shall comprise of wide flanged steel beams and high grade tested steel. The structure shall be sand blasted to SA 2½ grade and suitably painted with special anti-corrosion epoxy based paint.

The assembly shall be designed to compensate for expansion and contraction between the Weigh Bridge and foundation, caused by temperature variation.

The load cells shall be sealed and compression type suitable for pit less weigh bridge installation. The load cells shall be of rated capacity 23T (approx) each having safe overload limit of 150% and breaking load of 300% of rated capacity. Each load cell shall have safe temperature range 0-65 degree Celsius and shall be weather proof IP-68 protection.

Weigh bridge electronics shall be micro controller based with standard software capable of providing various kind of information on selectable basis. The system shall be provided with communication facility with the main PIC in the control room and a real time clock to print date and time on the printouts. The system shall be provided with suitable PC with software and dot matrix printer of latest technology is given below:

Specification Data Sheet - Road Weigh Bridge

S. No.	Description	Data
1.	Type	Pit less, Static
2.	Capacity	60T
3.	Accuracy	± 0.05% of Full scale
4.	Platform size	15 m x 3 m
5.	Trucks to be weighed	Heavy duty Trucks / dumpers
6.	Operator interface	Menu driven
7.	PC & Printer	Required
8.	Auto zero & Auto	Required
9.	Anti-skid to plate	Required
10.	Stamping by W&M	Required