## SEAGULL CONSULTANTS PRIVATE LIMITED email: scplvinayak@msn.com RECEIPT OF IRON ORE AT A SIDING

TRAIN TYPE	UNIT TRAIN ALTERNATIVES			RANDOM CARS			
TITE	I	II	III	WAGON TIPPLERS		MANUAL or WAGON SHAKERS	
DUMPING MODE	BOTTOM DUMP	TOP DUMP	SIDE DUMP (SPECIAL CASE)	TOP DUMP			BOTTOM DUMP
CAR TYPE	HOPPER WITH AUTO DOORS FOR RAPID DISCHARGE	GONDOLA WITH SWIVEL COUPLERS		HOPPER WITH MANUAL DOORS			HOPPER WITH MANUAL DOORS
DUMPING METHOD	TRESLE OR LONG HOPPER	ROTORY DUMPER		ROTORY D	OUMPER	TURNOVER OR HIGH LIFT DUMPER	TRACK HOPPER
TYPE OF DUMPER	NOT REQUIRED	`O' RING		`C' FRAME	`O' RING	LIFTING FRAME	NOT REQUIRED
TYPICAL CAR INDEXING	LOCOMOTIVE	AUTOMATIC POSITIONER		AUTOMATIC POSITIONER	AUTOMATIC POSITIONER	CAR SPOTTER	CAR SPOTTER
RELATIVE DISCHARGE RATES	EXTREMELY HIGH 100 car train can be emptied in 20 to 30 minutes	VERY HIGH Lower Threshold 4 million tonnes per year		HIGH Car dumping rate of 30 cars / hour	MEDIUM	LOW	LOW 10-12 cars per hour with a single car receiving hopper 650- 700 tph hour
RELATIVE DISCHARGE RATES	Best for Short Haul High Tonnage	Best for long haul High Tonnage		`C' Frame provides better positioning for random cars	Can include provision for bottom dump	Minimum Foundation requirements	Labour intensive best for low tonnage

We need to select type of wagons and type of unloading system for receiving iron ore.

Nominal throughput (ore and pellets per year: 3 million T/year in 250 days Average: 12,000 T/day or four rakes per day.

The terminal will also load coal in rail wagons.

Nominal Throughput (coal) per year: 3 million Tonnes in 250 days Average: 12,000 T/day or five rakes a day.