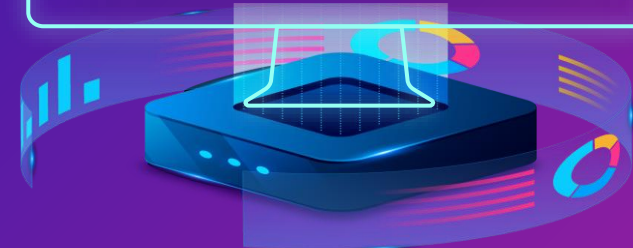




WELCOME TO VISA KHAPATNAM STEEL PLANT



*A PROJECT ON COMPUTERISED
RAW MATERIALS MANAGEMENT
SYSTEM USING HTML*





In Partial Fulfillment for Trade Apprenticeship Training

“ PROGRAMMING AND SYSTEM ADMINISTRATION ASSISTANT ” (PASAA)

**Under the guidance of
Shri. Dipankar Dey, Dy.Manager (Trg).**

Submitted by
K.ESWARUDU
TRAINEE NO: 052544





VIEW OF ADMIN BUILDING AND STEEL PLANT

INTRODUCTION



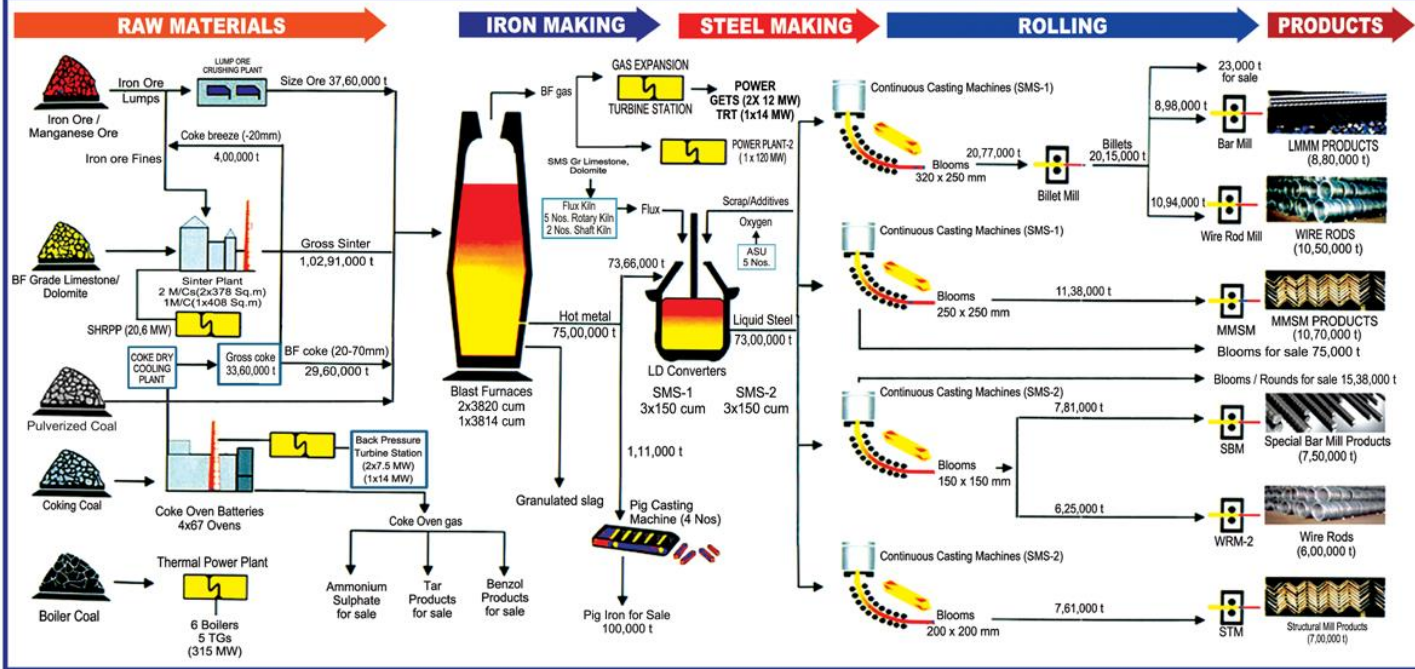
*“A PROJECT ON COMPUTERISED
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**RAW MATERIALS DEPARTMENT
(RMD)**

FLOW CHART

VISAKHAPATNAM STEEL PLANT

FLOW CHART (7.3 MT STAGE) (Under Commissioning / Stabilization)



Types of Iron Ore :-

- a) Iron Ore Fines => (Fe-62-64%)
Size: -10 mm
Sources: NMDC Bailadila Mines



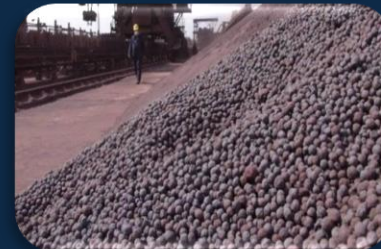
- b) Iron Ore Lump => (Fe-62-64%)
Size: 10 -140 mm
Sources: NMDC Bailadila Mines



- c) CLO (Calibrated Lump Ore) => (Fe-62-64%)
Size: 10 -140 mm
Sources: NMDC Bailadila Mines



- d) Iron Ore Pellets => (Fe-62-64%)
Size: 10 -140 mm
Sources: NMDC Donimalai Pellets,
KIOCL.





Type of Coals:

a) Non-Coking Coal

- i) Imported Hard Coking Coal
- ii) Imported Soft Coking Coal
- iii) PCI (Pulverized Coal Injection)

Imported Hard Coking Coal: (Brand-wise)

Peakdown, Goonyella, Moranbah North,
Cambaria Creek, Benga HCC.
Sources: Australia, USA, Mozambique.

Imported Soft Coking Coal : (Brand-wise)

Kestrel, Moura Soft, Black Water
Soft, Blue Diamond Soft.
Sources: Australia, Newzealand.

b) Coking Coal

- i) Boiler Coal : Talcher,BOCM,Singareni.
- ii) Medium Coking Coal:
- iii) Prime Coking Coal:
- iv) Imported Boiler Coal: Mozambique.

Type of Fluxes:

a) Dolomite

i) BF Dolomite:

Sources: Captive mines(Madharam), Private Party



ii) SMS Dolomite:

Sources: Captive mines(Madharam), Private Party



b) Limestone

i) BF Limestone

Sources: Captive mines(Jaggayapeta)



ii) SMS Limestone

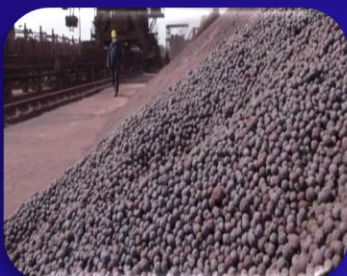
Sources: UAE



RAW MATERIALS



IRON ORE FINES



PILLETTS



MN ORE FINES



IRON ORE LUMP



BF LIME STONE



MANGANESE ORE LUMP



LIMESTONE A& DOLOMITE

FLUXES



Magnetite



Hematite



*Magnetic
Hematite*



Ilmenite



Limonite



Siderite

COALS



Coking Coal



Thermal Coal

SPECIFICATIONS OF IRON ORE



Iron Ores

Iron Ores are rocks and minerals from which metallic iron can be economically extracted. The ores are usually rich in iron oxides and vary in color from dark gray, bright yellow, deep purple, to rusty red. The iron itself is usually found in the form of magnetic (Fe_3O_4), Hematite (Fe_2O_3).

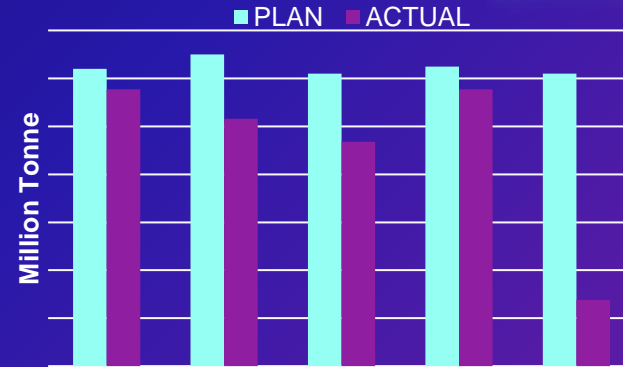
Chemical Composition

%Fe	→ 63 – 65% Min
% Al_2O_3	→ 3.0% Max
% SiO_2	→ 3.0 Max
Phosphorus	→ 0.06 Max
Sulfur	→ 0.02 Max



Hot Metal Statistics:

<u>YEAR</u>	<u>PLAN</u>	<u>ACTUAL</u>	<u>FULFILLMENT</u>
2018-19	6.2 MT	5.77 MT	93 %
2019-20	6.5 MT	5.16 MT	79 %
2020-21	6.1 MT	4.68 MT	77 %
2021-22	6.25MT	5.77 MT	92 %
2022-23 (till July'22)	6.1 MT	*1.38MT	-



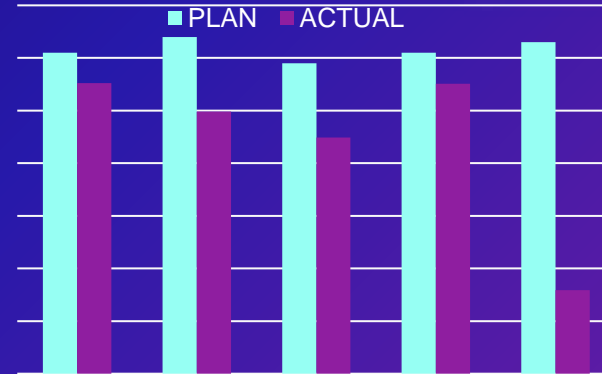
Note: * Up to Apr-Jul'22



Liquid Steel Statistics:

<u>YEAR</u>	<u>PLAN</u>	<u>ACTUAL</u>	<u>FULFILLMENT</u> <u>I</u>
2018-19	6.1 MT	5.52 MT	90 %
2019-20	6.4 MT	4.98 MT	78 %
2020-21	5.9 MT	4.49 MT	76 %
2021-22	6.10 MT	5.51 MT	90 %
2022-23 (till July'22)	6.3 MT	*1.59 MT	-

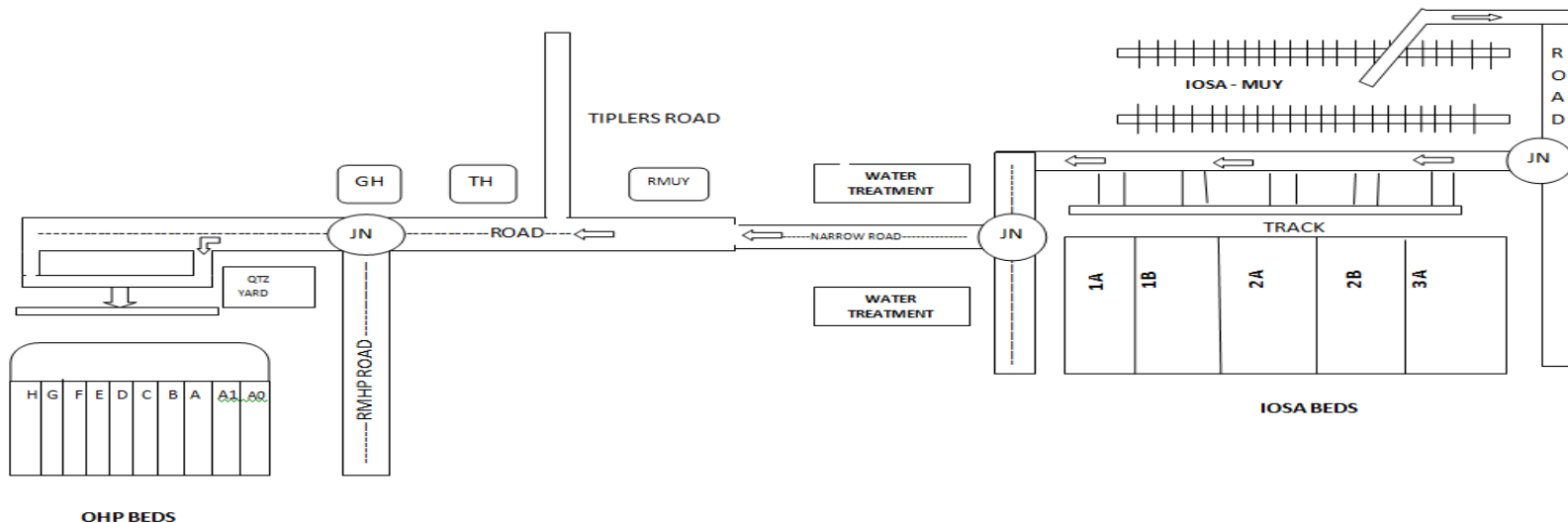
Million Tonne



Note: * Up to Apr-Jul'22

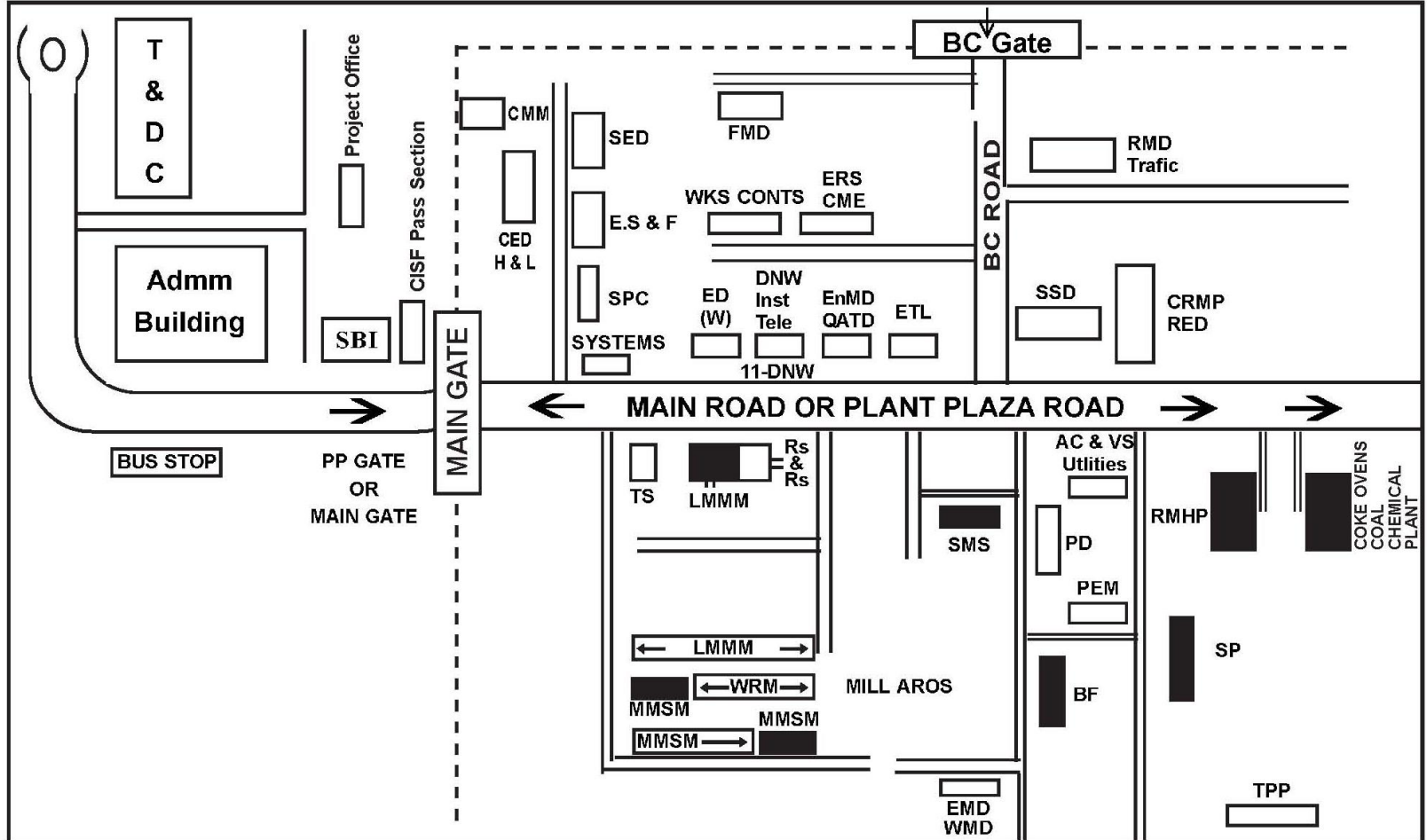
ROUTE MAP FOR SHIFTING OF IRON ORE FROM IOSA TO MUY – OHP BEDS

ROUTE MAP FOR SHIFTING OF IRON ORE FROM IOSA – MUY TO OHP BEDS OF RMHP



Distance from IOSA-MUY to OHP beds is 4.75 kms
Distance from IOSA-MUY to IOSA beds is 0.75 kms

LAYOUT OF VISAKHAPATNAM STEEL PLANT





RINL - PRODUCTS



Rebars



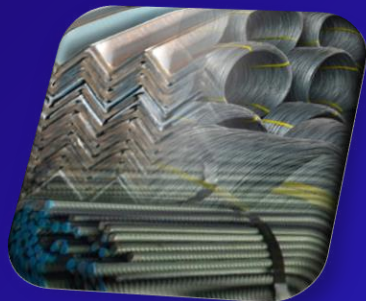
Forged Rounds



Structurals



Wire Rod Coils



Exports



Prod mix



By prod



Special Steel

CONCLUSION

ACTIVITIES OF RAW MATERIALS DEPARTMENT

1. Indenting and Procuring of all raw materials required for Process and Handled by RMHP.
2. Monitoring daily loading and Receipts of Raw materials.
3. Identification of bulk Raw Materials Received by Rail.
4. Accounting of all Raw materials.



THANK YOU



RASTHRIYA ISPAT NIGAM LIMITED - VISAKHAPATNAM