

MAIN RECEIVING STATION (MRS)

3 Phase, 132 kV Electric supply is received at Main Receiving Station (MRS) through two dedicated transmission feeders from Punjab State Transmission Corporation Limited (PSTCL) Grid Substation at Kapurthala (about 8.5 Kms) and at Khera Mandir (about 4.5 Kms) from Rail Coach Factory, Hussainpur. This supply is stepped down to 11 kV by two 132/11 kV, 12.5 MVA Power Transformers. At any instance, supply from one feeder is taken and other feeder acts as standby.

11 kV output from power transformers is fed to 11 KV VCB panel at MRS having 3 phase double bus bar arrangement. One bus is connected to 11 KV transformer supply from PSTCL and second bus is connected to DG set supply.

11 KV supply is further distributed to 15 nos; 11kV/415V distribution substations through 5 Ring Main Systems. These substations are numbered from SS No.1 to SS No 12, 14, 15&16. Out of these 15 sub-stations; nine sub-stations viz SS Nos.2, 3, 4, 5, 6, 7, 8, 9 & 15 cater to Workshop load and remaining six substations(SS 01- Admin Building, SS 10- Type I & II Area, SS 11 – Type II & III Area, SS 12- Type IV &V, SS 14 – TTC & STP and SS 16 – West Colony) cater to Electrical load in Township.

There are 3 DG Sets each of 1500 kVA (2 Nos. from M/s Power Engineering & 1 No. from M/s Supernova) installed in DG Room near Main Receiving Sub-station.

MAJOR ASSETS OF MAIN RECEIVING STATION (MRS):

SNo.	Description	Qty (No)
1	Main Receiving Station	
(a)	Grid Sub-Station 132/11 kV (commissioned in Feb'1988)	01
(b)	Power Transformers 132/11kV, 12.5 MVA	02
2	DG Set 11kV, 1500 KVA	03