

FINAL REPORT

MANGANESE REPORT

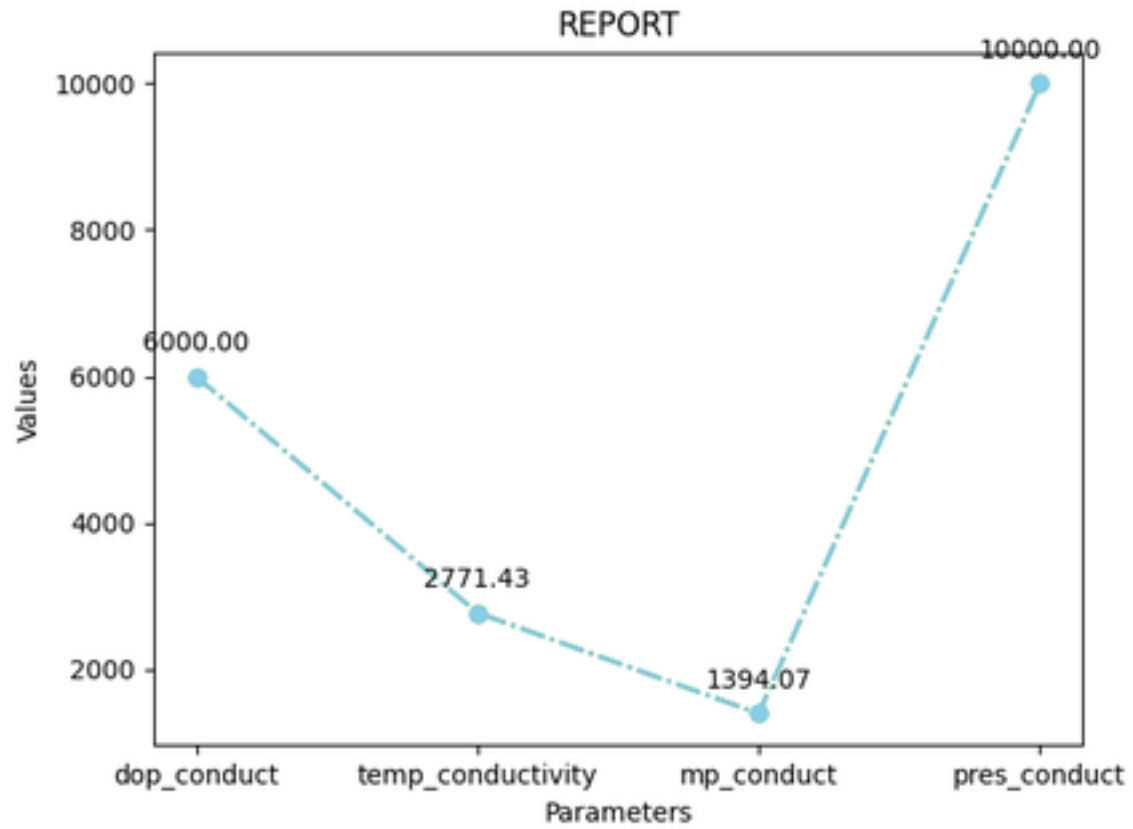
S.No	CONTENT	RESULT ANALYSIS
1	Manganese Composition	MnS ₂ Sensing Element
2	Manganese Form	MnS ₂ Thin film
3	Size	50mm x 20mm x 3 micrometre
4	Weight	23.94 grams

POROSITY REPORT

S.No	CONTENT	RESULT ANALYSIS
1	Porosity Value	0.170835
2	Mercury Intruded	0.027 cm ³ /g
3	Prediction	7.24 %
4	Result	Porosity is optimal (7.24%) Good Conductivity & best suitability

CONDUCTIVITY REPORT

Parameters	Input	Expected(S/m)	Conductivity Value(S/m)
Doping (gms)	Zn 95.76	2596.3	6000.0
Temperature (°C)	223	5700.0	2771.43
Melting Point (°C)	419	3141.55	1394.07
Pressure (MPa)	5444	1799.2	10000.0



DURATION OF ANALYSIS : 0.946 seconds