

# FINAL REPORT

## MANGANESE REPORT

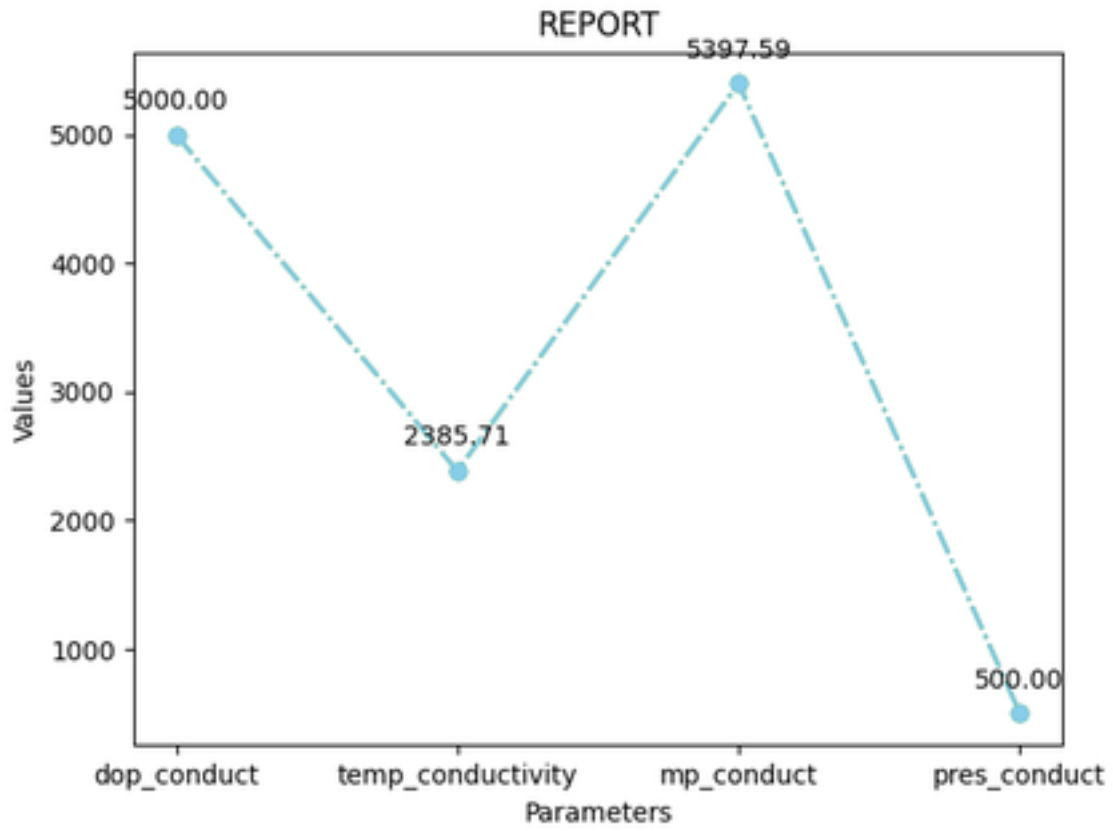
S.No	CONTENT	RESULT ANALYSIS
1	Manganese Composition	MnS <sub>2</sub> Sensing Element
2	Manganese Form	MnS <sub>2</sub> Thin film
3	Size	50mm x 20mm x 3 micrometre
4	Weight	23.94 grams

## POROSITY REPORT

S.No	CONTENT	RESULT ANALYSIS
1	Porosity Value	0.502050923
2	Mercury Intruduced	0.239642061 cm <sup>3</sup> /g
3	Prediction	8.1 %
4	Result	Porosity is optimal (8.1%) Good Conductivity & best suitability

## CONDUCTIVITY REPORT

Parameters	Input	Expected(S/m)	Conductivity Value(S/m)
Doping (gms)	Zn 119.7	3168.0	5000.0
Temperature (°C)	125	5700.0	2385.71
Melting Point (°C)	419	3141.55	5397.59
Pressure (MPa)	5000	1000.0	500.0



DURATION OF ANALYSIS : 1.393 seconds