



SECTOR-1
FIELD ASSESSMENT SHEET

S.No	66 KV Sde												
	Trafo No.	Bay Name	Monitoring /Control		CT Ratio	Existing Relay			Existing Meter		Relay		
						Make	Model	Protocol	Type	Protocol	Nos	Type	
1	T1	300-150/75/0.575-1A-1A	Monitoring		300-150/75/0.575-1A-1A	No Numerical			Rish Master -3450				
TOTAL													

S.No	11 KV Sde											
	Trafo No.	Bay Name	Monitoring /Control		CT Ratio	Existing Relay			Existing Meter		Relay Required	
						Make	Model	Protocol	Type	Protocol	Nos	Type
1	T1 (25/31.5 MVA)	Incomer -1	Monitoring	CB Status ON/OFF,MFT Record	1800-900/5-5-1	Crompton Greeves	CGI-14C, CGV-24C		Secure -Premier-300	Modbus		
2		Incomer-2	Monitoring	CB Status ON/OFF,MFT Record	1800-900/5-5-1	Crompton Greeves	CGI-14C, CGV-24C		Secure -Premier-300	Modbus		
3		Sidco	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		Secure -Premier-300	Modbus		
4		Ascot	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Crompton Greeves	CGI-14C		Secure -Premier-300	Modbus		
5		Sector -1	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		Secure -Premier-300	Modbus		
6		Kankrolla	Control	CB Status and Control , CB-TCS,MFT	400-200/5-5	Crompton Greeves	CGI-14C		Secure -Premier-300	Modbus		
7		S/Stn	Control	CB Status and Control , CB-TCS,MFT	60-30/5-5	Crompton Greeves	CGI-14C		Secure -Premier-300	Modbus		
8		Micromax	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		Secure -Premier-300	Modbus		
9		Capacitor			400-200/5-5	Crompton Greeves	CGI-14C, CGV-24C					
10		UID	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		Secure -Premier-300	Modbus		
11		IMT Cable	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		Secure -Premier-300	Modbus		



11 KV Sde												
S.No	Trafo No.	Bay Name	Monitoring /Control		CT Ratio	Existing Relay			Existing Meter		Relay Required	
						Make	Model	Protocol	Type	Protocol	Nos	Type
12		Subros	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L& T Trivectometer-ER300P	Modbus		
13		Sector 6	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L& T Trivectometer-ER300P	Modbus		
14		Sumsara	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L& T Trivectometer-ER300P	Modbus		
15		Capacitor	Monitoring	CB Status ON/OFF,MFT Record	400-200/5-5	Crompton Greeves	CGI-14C					
16		Police Line	Control	CB Status and Control , CB-TCS,MFT	120-60/5-5	No Numerical Relay			L& T Trivectometer-ER300P	Modbus	1	
TOTAL												1



SECTOR -2 MANESAR

FIELD ASSESSMENT SHEET

S.No	66 KV Sde											
	Bay Name		Monitoring /Control		CT Ratio	Existing Numeric Relay			Existing Meter		Relay Required	
						Make	Model	Protocol	Type	Protocol	Nos	Type
1	T1	Transformer Bay-1	Monitoring		300-150/1-1	No Numerical Relay					1	
2	T2	Transformer Bay-2	Monitoring		300-150/1-1	Easun Reyrolle	CSAC-326					
3		Line -3 (Sector -3)			600-300/1-1	ABB	Ref-615, Rel-650		L&T -Trivectormeter ER300P	Modbus		
4		Loop In			1000-500/1-1	Alstom	PD-521					
5		Loop out -(To sector 4)			1000-500/1-1	Alstom	P40 -Agile					
6		New Circuit -1 (From Sector -1)			1000-500/1-1	ABB	Ref-615, Rel-650		L&T -Trivectormeter ER300P	Modbus		
7		New Circuit -2 (From Sector -1)			1000-500/1-1	ABB	Ref-615, Rel-650		L&T -Trivectormeter ER300P	Modbus		
TOTAL												1

S.No	11 KV Sde											
	Bay Name		Monitoring /Control		CT Ratio	Existing Numeric Relay			Existing Meter		Relay Required	
						Make	Model	Protocol			Nos	Type
1		T1 / Transformer Bay-1 - Incoming -1	Monitoring	CB Status ON/OFF,MFT	900-450/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
2		T1 / Transformer Bay-1 - Incoming -2	Monitoring	CB Status ON/OFF,MFT Record	900-450/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
3		ASK Auto 2nd	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Ashida	M-140D	IEC-60870-103	Secure -Premier-300	Modbus		
4		UID	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
5		MINDA General	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		



11 KV Sde											
S.No	Bay Name	Monitoring /Control		CT Ratio	Existing Numeric Relay			Existing Meter		Relay Required	
6	ALERE Medical Pvt. Ltd	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
7	JBM	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
8	RICHA General	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
9	LUMAX General	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
10	EIH	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
11	AA Auto	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
12	Substation Transformer - 250KVA	Control	CB Status and Control , CB-TCS,MFT	60-30/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
13	Rockland	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	Modbus		
14	UPPAL	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Ashida	ADR-131	IEC-60870-103				
15	IICA	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	ADR-131	IEC-60870-103				
16	Capacitor Bank	Monitoring	CB Status ON/OFF,MFT Record	400-200/5-5							
17	Mark Exhaust	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay - will be replace by Megawin Relay						
18	T2 / Transformer Bay-1 - Incoming -1	Monitoring	CB Status ON/OFF,MFT Record	1200-900/5-5	Crompton Greeves	CGI-14C		Secure -Premier-300	Modbus		

T1 (25/ 31.5 MVA)



11 KV Sde											
S.No	Bay Name	Monitoring /Control		CT Ratio	Existing Numeric Relay			Existing Meter		Relay Required	
19	T2 / Transformer Bay-1 - Incoming -2	Monitoring	CB Status ON/OFF,MFT Record	1200-900/5-5	Crompton Greeves	CGI-14C		Secure -Premier-300	Modbus		
20	Capacitor Bank	Monitoring	CB Status ON/OFF,MFT Record	400-200/5-5	Crompton Greeves	CGI-24C , CGV -24C					
21	ASK Auto 1st	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
22	MAX-OP	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
23	Kumar Painter	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
24	LUMAX DK DOC	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
25	Ajay Enterprises	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
26	ITC	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	Modbus		
27	MINDA Investment	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P			
28	KAP Cone	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
29	AV Light DOC	Control	CB Status and Control CB-	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
30	ASK 1st DOC	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	Modbus		
TOTAL											0

T2 (12.5/ 16 MVA)



S.No	11 KV Sde												
	Bay Name	Monitoring /Control	CT Ratio	Existing Numeric Relay			Existing Meter		Feeder Type	Relay Required			
11	T1 (25/ 31.5 M	Rooppolymer	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Crompton Greeves	CGI-14N		L& T Trivectometer-ER300P	Modbus	Individual		
12		K Maruti	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Crompton Greeves	CGI-14N		L& T Trivectometer-ER300P	Modbus	Individual		
13		NHK	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L& T Trivectometer-ER300P	Modbus	Individual		
14		NTF NEW	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	M-140D	IEC-60870-103	L& T Trivectometer-ER300P	Modbus	Individual		
15		OMAX	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	M-140D	IEC-60870-103	Secure- Entity -Old	Modbus	General		
16		Munjal showa	Control	CB Status and Control , CB-TCS,MFT	400-200/5-5	Ashida	M-140D	IEC-60870-103	Secure- Entity -Old	Modbus	General		
17		M Dairy	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	M-140D	IEC-60870-103	Secure- Entity -Old	Modbus	Individual		
18		Frigo Glass	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Ashida	M-140D	IEC-60870-103	Secure- Entity -Old	Modbus	General		
19		Jay Usain	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	M-140D	IEC-60870-103	Secure- Entity -Old	Modbus	Individual		
20		FCC Ricco	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	M-140D	IEC-60870-103	Secure- Entity -Old	Modbus	Individual		
21		A/G	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Ashida	M-140D	IEC-60870-103	Secure- Entity -Old	Modbus	Individual		
17		T2 / Transformer Bay-1 - Incoming -1	Control	CB Status ON/OFF,MFT	900-450/0.577-5	No Numerical			Secure- Entity -Old	Modbus		1	
18		T2 / Transformer Bay-1 - Incoming -2	Control	CB Status ON/OFF,MFT Record	900-450/0.577-5	No Numerical			Secure- Entity -Old	Modbus		1	
19	Maruti Suzuki	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L& T Trivectometer-ER300P	Modbus	Individual			
20	Sarvpriya	Control	CB Status and Control , CB-TCS,MFT	150-75/5-5	Crompton Greeves	CGI-14N		L& T Trivectometer-ER300P	Modbus	Individual			
21	I/CAT	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	ABB	NI41		HPL-CTH5		Individual			



11 KV Sde												
S.No	Bus Name	Monitoring /Control	CT Ratio	Existing Numeric Relay			Existing Meter		Feder Type	Relay Required		
22	TZ (25/31.5MVA)	ESIC Hospital	Control	CB Status and Control , CB-TCS,MFT	140-70/5-5	Ashida	IEC-60870-103	HPL-CT5		Individual		
23		Anand Gas	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	No Numerical		Secure- Entity -Old	Modbus	Individual	1	
24		Ranee Polymer	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical		Secure- Entity -Old	Modbus	General	1	
25		Gandhi Glass	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical		Secure- Entity -Old	Modbus	General	1	
26		SPM	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical		Secure- Entity -Old	Modbus	General	1	
27		SLD	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical		Secure- Entity -Old	Modbus	General	1	
28		Capacitor Bank	Control	CB Status and Control , CB-	400-200/5-5	No Numerical		Secure- Entity -Old	Modbus	General	1	
TOTAL											8	



SECTOR -4 MANESAR

FIELD ASSESSMENT SHEET

66 KV Sde												
S.No	Bay Name		Monitoring /Control	CT Ratio	Existing Numeric Relay			Existing Meter		Relay Required		
					Make	Model	Protocol	Type	Protocol	Nos	Type	
1	T1	Transformer Bay-1	Monitoring	300-150/1-1	GE	Multilin						
2	T2	Transformer Bay-2	Monitoring	300-150/1-1	GE	Multilin						
3		Loop Out -Moojjal Kidu	Monitoring	600-300-150/1-1	Siemens	Sprotec-7SD61						
4		Loopin -1	Monitoring	1000-500-250/1-1	Alstom	PD521						
5		Loopin -2	Monitoring	1000-500-250/1-1	Alstom	P40 Agile						
6		Bus Coupler	Monitoring	1000-500-250/1-1	No Numerical					1		
7		Loop Out -Sector -3	Monitoring	1000-500-250/1-1	Alstom	PD521						
8		Loop Out -Sector -8	Monitoring	750-500/1-1	Siemens	Siprotec -7SA61		Secure -Premier 300	Modbus			
9		Loop Out -Sector -8	Monitoring	750-500/1-1	Siemens	Siprotec -7SA61		Secure -Premier 300	Modbus			
TOTAL										1		

11 KV Sde												
S.No	Bay Name		Monitoring /Control	CT Ratio	Existing Numeric Relay			Existing Meter	Relay Required			
					Make	Model	Protocol		Nos	Type		
1	(25/31.5 MVA)	T1 / Transformer Bay-1 -Incoming -1	Monitoring	CB Status ON/OFF,MFT Record	1600-800/5-5	Megawin	M-135C, M-140C	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
2		T1 / Transformer Bay-1 -Incoming -2	Monitoring	CB Status ON/OFF,MFT Record	1600-800/5-5	Megawin	M-135C, M-140C	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
3		Star Air Gas	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
4		Endurance	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
5		Narmada Polymar	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
6		HI-Tech Gear	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
7		Intreding	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
8		Anu Auto	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		



S.No	11 KV Sde											
	Bay Name	Monitoring /Control	CT Ratio	Existing Numeric Relay			Existing Meter	Relay Required				
				Make	Model	Protocol		Nos	Type			
9	T1	Superon	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
10		Sun Vacuum	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
11		Capacitor Bank	Monitoring	CB Status ON/OFF,MFT Record	400-200/5-5	Megawin	M-135C, M-140D	IEC-60870-103,Modbus				
12		Sunbstation Transformer - 250KVA	Control	CB Status and Control , CB-TCS,MFT	60-30/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
13		HSIIDC -CPT	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
14		Shiv Shakti	Control	CB Status and Control , CB-TCS,MFT	400-200/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier 300	Modbus		
15		Capacitor Bank	Control		400-200/5-5	Megawin	M-135C, M-140D	IEC-60870-103,Modbus				
16		T2 (25/31.5 MVA)	T2 / Transformer Bay-1 -Incoming -1	Monitoring	CB Status ON/OFF,MFT Record	900-450/0.577-5	No Numerical Relay			L&T -Trivectormeter ER300P	Modbus	1
17	T2 / Transformer Bay-1 -Incoming -2		Monitoring	CB Status ON/OFF,MFT Record	900-450/0.577-5	Crompton Greeves	CGI-14C		Secure- Entity -Old	Modbus		
18	Toyota		Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			L&T -Trivectormeter ER300P	Modbus	1	
19	Bexeter		Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			L&T -Trivectormeter ER300P	Modbus	1	
20	Bharti Realty		Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	ADR-131A	IEC-60870-103	L&T -Trivectormeter ER300P	Modbus		
21	Motherson		Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	ADR-131A	IEC-60870-103	L&T -Trivectormeter ER300P	Modbus		
22	Neel Metal		Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	ADR-241B	IEC-60870-103	L&T -Trivectormeter ER300P	Modbus		
23	Satelite Forging		Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	ADR-241B	IEC-60870-103	L&T -Trivectormeter ER300P	Modbus		
24	Sebros	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Ashida	ADR-141C	IEC-60870-103	L&T -Trivectormeter ER300P	Modbus			



S.No	11 KV Sde										
	Bay Name	Monitoring /Control	CT Ratio	Existing Numeric Relay			Existing Meter	Relay Required			
				Make	Model	Protocol		Nos	Type		
25	Hamdard	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
26	Sarita Handa	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		Secure- Entity -Old	Modbus		
27	NLDK	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
28	SPM	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
29	Spare Feeder	N.A	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T -Trivectormeter ER300P	Modbus		
30	Capacitor Bank	Monitoring	CB Status ON/OFF,MFT Record	400-200/5-5	Crompton Greeves	CGI-24C, CGI-14C					
TOTAL										3	



SECTOR -8 MANESAR

S.No	66 KV Sde												
	Bay Name		Monitoring /Control		CT Ratio	Existing Numeric Relay			Existing Meter		Relay Required		
						Make	Model	Protocol	Type	Protocol	Nos	Type	
1	T1	Transformer Bay-1	Monitoring		300-150/1-1	Siemens	SIPROTEC -7UT61						
2	T2	Transformer Bay-2	Monitoring		300-150/1-1	Siemens	SIPROTEC -7UT61						
3	T3	Transformer Bay-3	Monitoring		300-150/1-1	GE	Multilin -650						
4	B/C	Bus Coupler	Monitoring		750-500/1-1	GE	Multilin -650						
TOTAL													0

S.No	Trafo. Name	11 KV Sde											
		Bay Name		Monitoring /Control		CT Ratio	Existing Numeric Relay			Existing Meter		Relay Required	
							Make	Model	Protocol	Type	Protocol	Nos	Type
1	T1 (16/20 MVA)	T1 / Transformer Bay-1 -Incoming -1	Monitoring By HVPNL	CB Status ON/OFF,MFT Record	1600-800/5-5	ABB	REF-610	IEC-61850-103,DNP-3,MODBUS	Secure -Entity -Old	ModBus			
3		Natrip	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI -14C		L&T -Trivectormeter ER300P	ModBus			
4		Baskusla	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI -14C		L&T -Trivectormeter ER300P	ModBus			
5		Maruti	Control	CB Status and Control , CB-TCS,MFT	150-75/5-5	Ashida	ADR 141C	IEC-60870-103	L&T -Trivectormeter ER300P	ModBus			
6		HCL	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Ashida	ADR 141C	IEC-60870-103	L&T -Trivectormeter ER300P	ModBus			
7		Station Transformer	Control	CB Status and Control , CB-TCS,MFT	60-30/5-5	ABB	REF-610	IEC-61850-103,DNP-3,MODBUS	L&T -Trivectormeter ER300P	ModBus			
8		Metlax	Control	CB Status and Control , CB-TCS,MFT	600-300/5-5	ABB	REF-610	IEC-61850-103,DNP-3,MODBUS	Secure -Entity -Old	ModBus			
9		Hilex	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	ABB	REF-610	IEC-61850-103,DNP-3,MODBUS	Secure -Entity -Old	ModBus			
10		Haryana	Control	CB Status and Control , CB-TCS,MFT	400-200/5-5	ABB	REF-610	IEC-61850-103,DNP-3,MODBUS	Secure -Entity -Old	ModBus			
11		T2 / Transformer Bay-1 -Incoming -1	Monitoring By HVPNL	CB Status ON/OFF,MFT	1600-800/5-5	ABB	REF-610	IEC-61850-103,DNP-3,MODBUS	Secure -Entity -Old	ModBus			
12	Spare Feeder	Control	CB Status and Control , CB-TCS,MFT	600-300/5-5	ABB	REF-610	IEC-61850-103,DNP-3,MODBUS	L&T -Trivectormeter ER300P	ModBus				
13	Anent Raj	Control	CB Status and Control , CB-TCS,MFT	600-300/5-5	ABB	REF-610	IEC-61850-103,DNP-3,MODBUS	L&T -Trivectormeter ER300P	ModBus				
14	Rico	Control	CB Status and Control , CB-TCS,MFT	600-300/5-5	ABB	REF-610	IEC-61850-103,DNP-3,MODBUS	L&T -Trivectormeter ER300P	ModBus				
15	Capacitor Bank	Monitoring By HVPNL	CB Status ON/OFF,MFT Record	600-300/5-5	ABB	REM-615	IEC-61850-103		ModBus				



S.No	Trafo. Name	11 KV Sde										
		Bay Name	Monitoring /Control		CT Ratio	Existing Numeric Relay			Existing Meter		Relay Required	
						Make	Model	Protocol	Type	Protocol	Nos	Type
16	T2 (16/20MVA)	Agilent	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
17		Ranee Polymer	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
18		Subros	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
19		Nastle	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
20		KML	Control	CB Status and Control , CB-TCS,MFT	600-300/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
21		JBM	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
22		DHAHA	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
23		RGL	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
24		Inergy	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	ASHida	ADR 141C	IEC-60870-103	L&T -Trivectormeter ER300P	ModBus		
25		ASK	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
26		HMC	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
27		FMI	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus		
28	Bajaj Motor	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T -Trivectormeter ER300P	ModBus			
	T3 (16/20MVA)	New Metalax	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	ModBus		
		Bhomika	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	ModBus		
		Incomer -1	Monitoring By HVPNL	CB Status ON/OFF,MFT Record	1800-900/5-5	Megawin	M-140C, M-135C	IEC-60870-103,Modbus	Secure -Premier-300	ModBus		
		Incomer -2	Monitoring By HVPNL	CB Status ON/OFF,MFT Record	1800-900/5-5	Megawin	M-140C, M-135C	IEC-60870-103,Modbus	Secure -Premier-300	ModBus		
		Rioop Auto	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	ModBus		



S.No	Trafo. Name	11 KV Sde										
		Bay Name	Monitoring /Control		CT Ratio	Existing Numeric Relay			Existing Meter		Relay Required	
						Make	Model	Protocol	Type	Protocol	Nos	Type
		SKH	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	ModBus		
		Mchino Plastics	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Megawin	M-140D	IEC-60870-103,Modbus	Secure -Premier-300	ModBus		
TOTAL											0	



OLD MANESAR
FIELD ASSESSMENT SHEET

66 KV Sde												
S.No	Trafo No.	Bay Name	Monitoring /Control		CT Ratio	Existing Relay			Existing Meter		Relay Required	
						Make	Model	Protocol	Type	Protocol	Nos	Type
1	T1	300-150/75/0.575-1A-1A	Monitoring		300-150/75/0.575-1A-1A	Easun Reyrolle	CSC -162					
2	T2	300-150/75/0.575-1A-1A	Monitoring		300-150/75/0.575-1A-1A	No Numerical Relay					1	
3		Outgoing loop -To Sector 3	Monitoring		600-300/.575-1A	No Numerical Relay					1	
4		Outgoing -Patudi	Monitoring			No Numerical Relay					1	
5		Incoming -1	Monitoring		600-300/.575-1A	Easun Reyrolle	CSC-162					
6		Incoming -2	Monitoring		600-300/.575-1A	No Numerical Relay					1	
TOTAL												4

11 KV Sde												
S.No	Trafo No.	Bay Name	Monitoring /Control		CT Ratio	Existing Relay			Existing Meter		Relay Required	
						Make	Model	Protocol	Type	Protocol	Nos	Type
1	MVA)	Incomer 1	Control	CB Status ON/OFF,MFT Reco	900-450/5-5	No Numerical Relay			Secure -Old	Modbus	1	
2		Incomer 2	Control	CB Status ON/OFF,MFT Reco	900-450/5-5	No Numerical Relay			Secure -Old	Modbus	1	
3		Sigona Society	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T - Trivectormeter ER300P	Modbus		
4		Vatika	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T - Trivectormeter ER300P	Modbus		
5		Graphic Research	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T - Trivectormeter ER300P	Modbus		
6		Mindarika Industry	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14N		L&T - Trivectormeter ER300P	Modbus		
7		Piccadely Hotel	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Crompton Greeves	CGI-14C		L&T - Trivectormeter ER300P	Modbus		
8		NSG	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			Secure -Old	Modbus	1	
9		Aircon	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			Secure -Old	Modbus	1	



11 KV Sde												
S.No	Trafo No.	Bay Name	Monitoring /Control		CT Ratio	Existing Relay			Existing Meter		Relay Required	
						Make	Model	Protocol	Type	Protocol	Nos	Type
10	T1 (25/31.5	Sikanderpur	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	No Numerical Relay			Secure -Old	Modbus	1	
11		Karma Indus	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			L&T - Trivectormeter ER300P	Modbus	1	
12		Rampura	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			Secure -Old	Modbus	1	
13		Pukharpur	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			Secure -Old	Modbus	1	
14		Sinohpur	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			L& T Trivectometer-ER300P	Modbus	1	
15		Manesar	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			Secure -Old	Modbus	1	
16		V. Indus	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			L& T Trivectometer-ER300P	Modbus	1	
17		Capacitor	Control	CB Status and Control , CB-TCS,MFT	400-200/5-5							
18		Station Transformer	Control	CB Status and Control , CB-TCS,MFT	60-30/5-5	No Numerical Relay					1	
19		F. Home society	Control	Control , CB-TCS,MFT	300-150/5-5	No Numerical Relay			Trivectometer-ER300P	Modbus	1	
20	IVA)	Incomer-1	Control	CB Status ON/OFF,MFT Reco	1800-900/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
21		Incomer-2	Control	CB Status ON/OFF,MFT Reco	1800-900/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
22		Perftty	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
23		Khoh DS	Control	CB Status and Control , CB-TCS,MFT	400-200/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
24		Capacitor	Monitoring By HVPNL	CB Status ON/OFF,MFT Record	400-200/5-5	Megawin	MW-140,MW-13	IEC-60870-103,Modbus	Secure-Old	Modbus		
25		Moklwas	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		



11 KV Sde												
S.No	Trafo No.	Bay Name	Monitoring /Control		CT Ratio	Existing Relay			Existing Meter		Relay Required	
						Make	Model	Protocol	Type	Protocol	Nos	Type
26	T2 (25/31.5M	Naurangpur	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
27		Kankrola	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
28		NBRC Essential	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
29		Bar Gujjar	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
30		Haldiram Industry	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
31		Panchgaon AP	Control	CB Status and Control , CB-TCS,MFT	300-150/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
32		IBP-DS	Control	CB Status and Control , CB-TCS,MFT	200-100/5-5	Megawin	MW-140	IEC-60870-103,Modbus	Secure-Old	Modbus		
TOTAL											13	