

Report on Harmonic Mitigation and Power factor correction Post Implementation of Solution

XXXX AUTO STEEL Pune

Solution Installed: 270KVAR/525V Detuned RTPFC

: 200 Amps Active harmonic filter

Implementation and report prepared by.



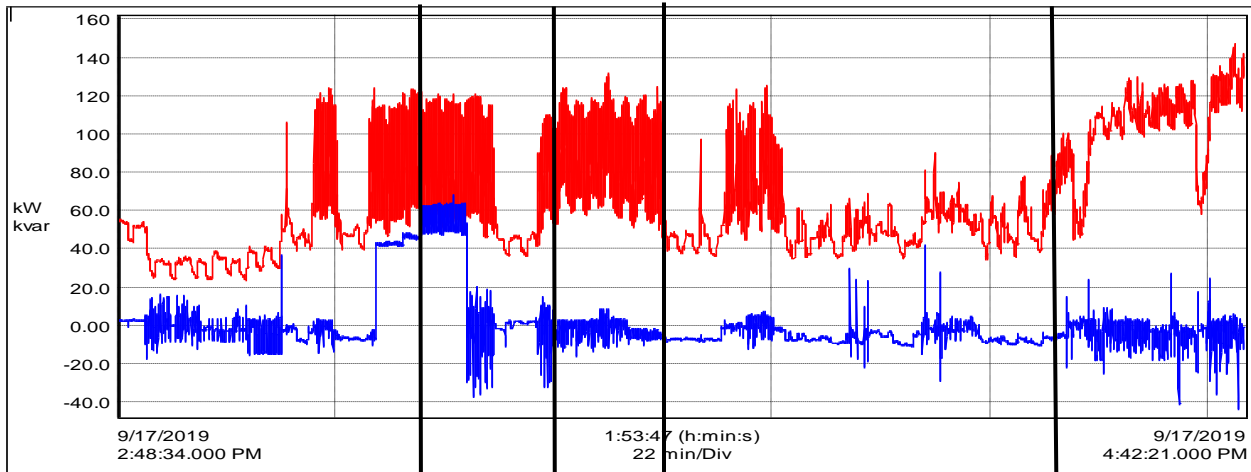
SAS Powertech P Ltd.

Pune.

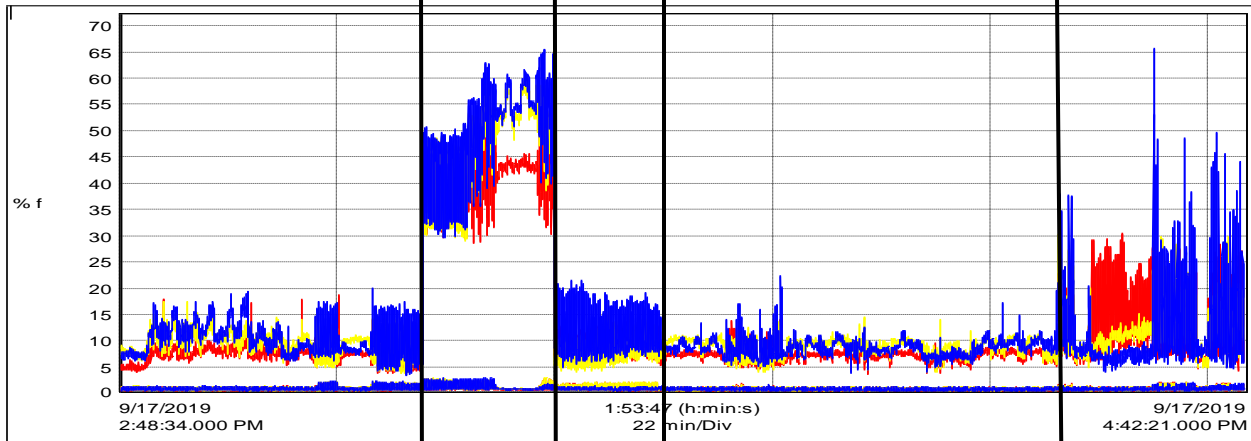
Date of commissioning and data collection:

17/9/2019

KW / KVAR

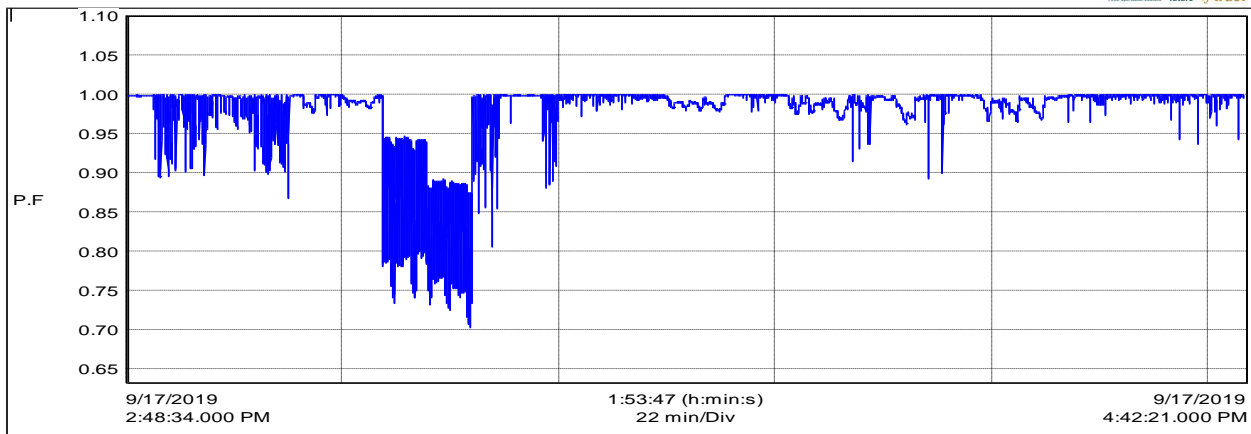


% Current harmonic distortion



A Load1
W/O filter
B Load1
With filter
C No load with Filters
D Load 2
With Filter

Power Factor



Results in Tabulated form:

Sr.	Condition	Average current Distortion%	Average Power Factor
1.	A - Load 1 w/o filters	30% to 65% Average 47.17%	0.75 to 0.95
2.	B - Load 1 with filter	4% to 36% Average 9.4%.	0.99 Lead
3.	C - No Load with filter	Average 9.4%.	0.99 Lead
4.	D - Load 2 with filter	Average 9.4%.	0.99 Lead

- Above readings are taken on transformer secondary side. Power factor is kept on slightly leading side to compensate for transformer impedance.
- Power factor is now maintained almost at unity and current harmonic distortion is reduced below 10%

END OF REPORT