

**SEASPEC MARINE SERVICES PTE LTD**

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To.  
Mr V Anandan.  
Technical Consultant  
MSP(MOLECULAR SCIENCE PRODUCTS PTE LTD)

Thank you for implementing MSP metal treatment to our fleet of vessels. Since we started using MSP approximately one year ago, significant savings have been achieved. We estimate this to be around 20% savings in maintenance costs. Based on this percentage; we can save **SGD\$ 8000** Per vessels per year.

Moreover, our vessels personnel's experienced smoother, more responsive, with reduced noise level and vibration; thus with less trouble shooting. With fewer problems on board, they can be deployed for other productive work on board. We have also saved 6% to 8% in travelling time. Before treatment; we used 50 litres of oil per month/vessel; now we only need to top up about **38** litres per month. This is a savings of **24 %** with this experience, we now carry less replacement oil on board and this allowed us to take on revenue bearing cargoes; or lighter and more fuel efficient vessels.

Before treatment; our vessel needed minor repairs at frequent intervals; now such parts replacement can be replaced during scheduled major maintenance. Without minor incidences; the crew are happier and more productive.

During major scheduled maintenance; the heavy duty friction points on major parts appear to be of very minimum wear. In engineering terms; this translates to extended period of service before the need to replace these expensive parts.

Overall, the emission output are noticeably less which I estimated to be at least 50% reduction of pollutant. With the current interest to curb ship emissions; it has been timely for us to have one year head start. As we have achieved emission reduction by just using MSP; we need not implement the expensive improvements that will be imposed to bring down the emission levels on all vessels.

As we have benefited from MSP; I will not hesitate to recommend MSP treatment to other vessel owners.

Yours truly,  
Manvendra Kumar  
Technical superintendent  
SEASPEC Marine Services pte. Ltd

A handwritten signature in blue ink, appearing to read "Manvendra Kumar".

