

**Additional / Revised Clarifications DT 08.02.2016
against Tender No.55(7)20113-PUR/T-83**

Sl. No.	Existing Pre-Bid Clarification/Tender Clause	To be corrected as
	Sl. No. 8 of page No. 1 of clarifications dated 29/01/2016	
8	" Vendor should have duplicate Source as backup and minimum of 80 tested Receivers on the vessel."	Stands deleted
6	Sl. No. 15 of page No. 4 of clarifications dated 29/01/2016	
	The service provider should have trained manpower on MMT and CSEM data acquisition and processing using single site and remote reference or robust multisite MT processing. Robust multi-site MT processing (Egbert, Geophysics Journal International 1997) with 4 or more sites is state-of-the art in marine MT processing. This significantly reduces impact of outliers and single-site coherent noise on the estimated MT signal. Robust multi-site MT processing can in principle also be applied to single-site data or include data from a remote reference, however this usage is not recommendable. Latest robust multi-site methods available for marine MT data take advantage of automatic grouping of sites optimized based on distance between sites, time overlap, water depth and data quality. (see, e.g., Markhus et al, EAGE 2015.)	Agreed for "Robust multi-site MT processing (Egbert, Geophysics Journal International 1997) with 4 or more sites is state-of-the art in marine MT processing" and in addition other multi-site processing methods also acceptable which meets NGRI tender specifications.

Following corrections made in clauses at Sl. No. 1 to 5 in view of deletion of our modeling and interpretation requirements.

Sl.No.	Tender Document	Existing	To be corrected as
1	Page No. 2	Sub: Marine Magnetotelluric (MMT) and Controlled Source EM (CSEM) Data Acquisition, Processing and interpretation in Kerala-Konkan basin (West coast of India) - Reg	Sub: Marine Magnetotelluric (MMT) and Controlled Source EM (CSEM) Data Acquisition and Processing in Kerala-Konkan basin (West coast of India) - Reg
2	Page No. 2	Description of Services Marine Magnetotelluric (MMT) and Controlled Source EM (CSEM) Data Acquisition, Processing and interpretation in Kerala-Konkan basin (West coast of India) - Reg	Description of Services Marine Magnetotelluric (MMT) and Controlled Source EM (CSEM) Data Acquisition and Processing in Kerala-Konkan basin (West coast of India) – Reg
3	Page No. 7	Clause No.1.11.2 Cost for Data acquisition with Q.C. Cost for of Data processing, modeling Cost for Preparation of Report	Clause No.1.11.2 Cost for Data acquisition with Q.C. Cost for Data processing Cost for Preparation of Report

4	Page No. 15	Clause No.1.29.3 Cost for Data acquisition with Q.C. Cost for of Data processing, modeling Cost for Preparation of Report	Clause No.1.29.3 Cost for Data acquisition with Q.C. Cost for Data processing Cost for Preparation of Report
5	Page No. 42	Under Item SI.No. 2 Cost for of Data processing, modeling	Under Item SI.No. 2 Cost for Data processing
	Page No. 35	Clause No. 2.27.1 <i>In the event of any replacement of defective equipments during warranty period. The same should be made within seven days from the date of notice of defect failing which a penalty of Rs.500/- per day shall be levied from the date of notice of defect till the date replacement is made.</i> <i>If any system is down beyond 72 (Seventy-two) hours, penalty will be charged per hour per system @ 1.0% (One percent) of the equipment value subject to maximum of 5% value of the system for that location.</i> <i>Cumulative Penalty amount on the half-yearly basis must be deposited by the supplier to CSIR/NGRI in the form of Bank Draft/Pay Order within 30(thirty) days of receiving such intimation for recovery from CSIR/NGRI.</i>	Stands deleted

Following clarification made , to bring clarity on QC requirements.

7	Sl. No. 16 of page No. 5 of clarifications dated 29/01/2016	
	Completion of Data Acquisition with QC: QC data are within specifications and delivered on board to NGRI representatives. <ul style="list-style-type: none"> ➤ Receiver drop position QA. ➤ Line log from source towing. ➤ Source and receiver navigation files with QA. ➤ Transmitted waveform QA. ➤ Receiver rotation angles. ➤ Data Quality Assessment; Including spectrograms and MT response plots ➤ Ascii txt files of Scaled and Rotated data for each receiver. ➤ Scaled and Inline Rotated MVO, PVO plots of receiver data. 	Completion of Data Acquisition with QC: QC data are within specifications and delivered on board to NGRI representatives. <ul style="list-style-type: none"> Receiver drop position QA. Line log from source towing. Source and receiver navigation files with QA. Transmitted waveform QA. Receiver rotation angles. Data Quality Assessment; Including spectrograms and MT response plots Ascii txt files of Scaled and Rotated data for each receiver. Scaled and Inline Rotated MVO, PVO plots of receiver data.

	<p>Processing Deliverables:</p> <p>Conditioned Frequency-domain CSEM data (MVO/PVO) (NetCDF or Ascii);</p> <p>Data Attributes NMVO/PDVO (Ascii) CSEM 2D resistivity model for each line (SEG Y)</p> <p>Processed MMT data (H5 or ZMM format) in EDI Format. MT 2D resistivity model for each line (SEG Y)</p> <p>Reports: Summary Data Acquisition Report Summary Data Processing Report</p> <p>What are the required deliverables that will be accepted by the Purchaser as completion of each phase of the Project ?</p>	<p>Processing Deliverables:</p> <p>Conditioned Frequency-domain CSEM data (MVO/PVO) (NetCDF or Ascii) in EDI format; Data Attributes NMVO/PDVO (Ascii)</p> <p>Processed MMT data (H5 or ZMM format) in EDI Format.</p> <p>Reports: Summary Data Acquisition Report Summary Data Processing Report</p> <p>In addition to the above the following data are to be provided,</p> <p>Navigation data for MMT and CSEM Bathymetry data from the echo sounder Temperature and salinity data Raw time series data from CSEM and MMT Final EDI files for CSEM and MMT data Project completion report</p>
8	Page No. 9 of clarifications dated 29/01/2016	
	Rates may be quoted per station separately for MMT, CSEM and MMT+CSEM	Rates may be quoted per station separately for MMT and CSEM.

PRICE SCHEDULE FOR THE SERVICES BEING OFFERED

Name of the Bidder _____

Sl. No.	ITEM	Qty in stations	Rate (UNIT PRICE)	TOTAL PRICE
1	(a) Cost for MMT Data acquisition	70		
	(b) Cost for CSEM Data acquisition	13		
2	(a) Cost for MMT Data Processing	70		
	(b) Cost for CSEM Data Processing	13		
3	Cost for Preparation of Report			
4	Applicable Service Tax			
	Total			

Total Bid price in in words

Signature of the bidder

Name

Business Address