

SURVEY

A	DGPS (RTK) Units capable of operating in L1 & L2 modes with required accessories and software in adequate quantity.					
Sl. No.	Equipment	Quantity	Model & Make	Year of Manufacture	Documentary evidence in support of Vintage is enclosed	Reference in terms of Page no., Annexure etc. of bidder's offer
1	DGPS (RTK) Units capable of operating in L1 & L2 modes with required accessories and software in adequate quantity.				Yes / No	
2	Total Stations with data loggers, accessories and survey software in adequate quantity.				Yes / No	

SEISMIC RECORDING SYSTEM

B	SEISMIC RECORDING SYSTEM : Not more than three (3) years old, ending last day of the month previous to the one in which bids are invited. The equipment must be in perfect working condition. The number of remote field units and cables and geophones to be deployed must be adequate to obtain the production required (i.e., a minimum of 6.7 Sq. Km per day) to complete the work within the required time.					
Sl. No.	Equipment	Quantity	Model & Make	Year of Manufacture	Documentary evidence in support of Vintage is enclosed	Reference in terms of Page no., Annexure etc. of bidder's offer
1	Seismic Data Recording System – Telemetry System with 24-bit $\Delta\Sigma$ Technology.				Yes / No	
2	24 bit recorder and correlator/stacker.				Yes / No	
3	Minimum 10,000 channels capability at 2 ms sampling.				Yes / No	
4	Recording System in an air-conditioned cabin on a 4 x 4 wheel truck/vehicle.				Yes / No	
5	Sufficient Remote Units, Interconnect boxes etc.				Yes / No	
6	Geophones : Offered Geophone must be SM24/SG-10 OR equivalent OR better OR Digital. The offered Geophones must be fully compatible with seismic data acquisition system alongwith interface/line telemetry cables. In case of Analog Geophone, the configuration must be : 6 x 2 [(6 in Series and two (2) such series in parallel)].				Yes / No	
7	Cables				Yes / No	
Cables & Geophones : Not more than One (1) year old, ending last day of the month previous to the one in which bids are invited.						

VIBRATORS

C. VIBRATORS : Not more than five (5) years old, ending last day of the month previous to the one in which bids are invited.						
Sl. No.	Equipment	Quantity	Model & Make	Year of Manufacture	Documentary evidence in support of Vintage is enclosed	Reference in terms of Page no., Annexure etc. of bidder's offer
1	Peak force should be greater than of 50,000 lb.				Yes / No	
2	Frequency Limits 7 Hz to 200 Hz or better				Yes / No	
3	Capable of generating linear and nonlinear sweeps.				Yes / No	
4	All-terrain buggies.				Yes / No	
5	Sand Tyres suitable for traversing the terrain in the area.				Yes / No	
6	Each Vibrator with GPS System.				Yes / No	

Note : If vibrators are more than five years old, then the Vibrators must have been overhauled during last 5 (five) years ending last day of the month previous to the one in which bids are invited. Documentary evidence in this regard needs to be furnished.

BUILDERS & LVL

D	BUILDERS : Minimum two (2) Bulldozers in good working condition				
Sl. No.	Equipment	Quantity	Model & Make		Year of Manufacture
1					
2					

E	LVL/UP-HOLE SURVEY EQUIPMENT : Not more than three (3) years old, ending last day of the month previous to the one in which bids are invited.					
Sl. No.	Equipment	Quantity	Model & Make	Year of Manufacture	Documentary evidence in support of Vintage is enclosed	Reference in terms of Page no., Annexure etc. of bidder's offer
1	24 channel digital recorder with 0.1 ms Sampling Interval.				Yes / No	
2	Cables for 400 m offset with 10 m takeouts. The cables must meet manufacturer's specifications.				Yes / No	
3	Refraction Geophone 4.5 Hz. The Geophones must meet manufacturer's specifications.				Yes / No	
4	Uphole Survey Digital Recorder with a minimum of 4 channels and downhole cable, hydrophone and geophones suitable for logging to 100 m weight drop source.				Yes / No	
5	Weight drop unit (Truck Mounted).				Yes / No	

COMPUTING & COMMUNICATION

F	COMPUTING : Stand-alone workstations with adequate RAM, disk-space for the following software packages – Not more than three (3) years old, ending last day of the month previous to the one in which bids are invited.					
Sl. No.	Equipment	Quantity	Model & Make	Year of Manufacture	Documentary evidence in support of Vintage is enclosed	Reference in terms of Page no., Annexure etc. of bidder's offer
1	Survey data management & processing.				Yes / No	
2	2D/3D field management /planning.				Yes / No	
3	2D/3D survey simulation (OMNI/MESA or equivalent).				Yes / No	
4	LVL/Uphole data processing and interpretation.				Yes / No	
5	Standalone workstations					
	RAM				Yes / No	
	HDD Capacity				Yes / No	
6	Tape Drives					
					Yes / No	
7	Plotter					
					Yes / No	
8	Printer					
					Yes / No	
The workstation needs to be connected to colour plotter, line printers and IBM 3592/DVD/DLT/LTO-3 cartridge drive for back-ups and any other facilities required to control the quality of survey and to provide the technical inputs required by Company.						

TRANSPORT

H	TRANSPORT : Bidders must provide off-road vehicles suitable for traversing the sand dune in desert areas of western Rajasthan. The vehicles must be in running condition and all seats, back and front must have seat belts. Bidders must also deploy the following :					
Sl. No.	Equipment	Quantity	Model & Make			Year of Manufacture
1	Water tanker, 4 x 4 wheel drive (for Up-Hole survey, supply of drinking water in field, etc).					
2	Truck for weight drop unit (for LVL/Up-Hole Survey).					
3	Mobile Drilling rig capable of drilling hole of diameter-12 cm, and drilling upto 100m in sand due country with hard rock formations (for Up-Hole Survey)					

FIELD PROCESSING

I EQUIPMENT FOR FIELD 3D DATA PROCESSING :Full Fledged 3D Seismic Data Processing software for QC processing of acquired 3D seismic data.						
Sl. No.	Equipment	Quantity	Model & Make	Year of Manufacture	Documentary evidence in support of Vintage is enclosed	Reference in terms of Page no., Annexure etc. of bidder's offer
1	HARDWARE; Not more than three (3) years old, ending last day of the month previous to the one in which bids are invited.					
	CPU Type and Speed				Yes / No	
	RAM					
	HDD Capacity					
2	Ancillary Equipment				Yes / No	
6	Printer				Yes / No	
7	Plotter				Yes / No	
8	Tape Drive				Yes / No	
9	Networking Switch				Yes / No	
10	Dispay Device				Yes / No	
11	UPS				Yes / No	
14	SOFTWARE : Not more than three (3) years old, ending last day of the month previous to the one in which bids are invited.					
	Field Processing Software	No. of License	Version	Year of Release	Documentary evidence in support of Vintage is enclosed	Reference Page No. if Documentary Evidence is enclosed

12	The field processing software must be capable of processing 3D Seismic Data upto Post-Stack Migration.	Yes / No	
13	Status of maintenance contract of the Processing Software to be furnished.	Documentary evidence in support of Maintenance contract of Processing Software is enclosed	Reference Page No. if Documentary Evidence is enclosed
		Yes / No	

MAIN PROCESSING

J	EQUIPMENT FOR 3D SEISMIC DATA PROCESSING : The Bidders must provide the technical details of following equipment (Hardware & Software) to be used for processing.					
Sl. No.	Equipment	Quantity	Model & Make	Other Details	Year of Manufacture	
	Hardware Configuration: Must be state-of-the-art technology capable of processing 3D Vibroseis Seismic Data upto Pre-STM & Pre-SDM as mentioned under Item B of Section-V. Bidder has to furnish the complete details of the hardware proposed to be deployed for processing of the 3D Vibroseis Seismic Data.					
1						
2						
3						
4						
5						
6						
	Software : Details of complete processing package, release date, version, and status of maintenance contract etc. – The 3D Seismic Data Processing Software must be of the latest version.					
	Field Processing Software	No. of License	Version	Year of Release	Documentary evidence in support of Vintage is enclosed	Reference Page No. if Documentary Evidence is enclosed
7					Yes / No	
8					Yes / No	
9					Yes / No	
10					Yes / No	
11					Yes / No	
12					Yes / No	
13	System Layout Diagram (including tape drives, plotter, and other I/O interface).	Attached with the technical Offer :Yes / No			Reference in terms of Page no., Annexure etc. of bidder's offer	
14	Brochures of Hardware and Software packages.	Attached with the technical Offer :Yes / No			Reference in terms of Page no., Annexure etc. of bidder's offer	
15	Location of the Processing Centre.	Details Attached with the technical Offer :Yes / No			Reference in terms of Page no., Annexure etc. of bidder's offer	

Work Experience Data Sheet

Contact No. : _____

Survey Location : _____

Contact Value: _____

Contract Type (Put in the appropriate box below)

3D Seismic Data Acquisition	3D Seismic Data Acq. and Proc. upto Pre-STM	3D Seismic Data Processing upto Pre-STM

Volume of Job Completed

3D Seismic Data Acquisition(Sq.Km)	3D Seismic Data Acquisition and Processing upto Pre-STM (Sq.Km)	3D Seismic Data Processing upto Pre-STM (Sq.Km)

Survey Start Date		Processing Start Date	
Survey Start Date		Processing End Date	

Scope of Work(in brief):

Client Details

Company		Reference Name	
Telephone		Fax No. :	
Email			

Reference in terms of Page no., Annexure etc. of bidder's offer(regarding documentary evidence above.)

CHECK LIST FOR BEC_01

Bid Rejection Criteria (Technical)			
Clause No.	Clause	Confirmation / Compliance	Reference in terms of Page no., Annexure etc. of bidder's offer
1.1	The Bidders must meet the following experience criteria.		
1.1 (i)	Bidders must have successfully completed land 3D Vibroseis Seismic Surveys with a minimum cumulative total of 2000 Sq. Km in the last five (5) years ending last day of the month previous to the one in which bids are invited. Bidders must submit documentary evidence in support of their experiences.	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.1 (ii)	Bidder must have state-of-the-art processing center to carry out detailed seismic data processing works. The bidder must have experience in seismic data processing and completed Processing of minimum 2000 Sq. Km of Land 3D seismic data up to Pre-stack Time Migration (Pre-STM) in last five (5) years ending last day of the month previous to the one in which bids are invited. Bidders must submit documentary evidence in support of their experiences.	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.1 (iii)	Foreign Bidders : Overseas Bidders must have successfully carried out a minimum of 1000 Sq. Km of land 3D Seismic Data Acquisition in two countries other than the country of origin as on the last day of the month previous to the one in which bids are invited, provided they meet the experience criteria mentioned in sub-clauses (i) and (ii) above. OR Overseas bidders should have successfully completed at least 100 Sq. Km. of Land 3D Seismic Data Acquisition in India, provided they meet the experience criteria mentioned in sub-clauses (i) and (ii) above. Bidders must submit documentary evidence in support of their experiences.	YES <input type="checkbox"/> NO <input type="checkbox"/>	

CHECK LIST FOR BEC_02

Bid Rejection Criteria (Technical)			
Clause No.	Clause	Confirmation / Compliance	Reference in terms of Page no., Annexure etc. of bidder's offer
1.2(i)	In case the bidder is an Indian Company/Indian Joint Venture Company, either the Indian Company/Indian Joint Venture Company or its Technical Collaborator/ Joint venture partner must meet the criteria under clause 1.1 above. {In case the Joint Venture Partner(s)/Collaborator(s) is/are of foreign origin, they are to meet the experience criteria set in clause 1.1 (iii) above in addition to others, otherwise the same is exempted for Indian JV Partner(s)/Collaborator(s)}.	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.2 (ii)	Details of experience and past performance of the bidder and the collaborator (in case of collaboration) or of joint venture partner (in case of a joint venture), on works/jobs done of similar nature in the past and details of current work in hand and other contractual commitments, indicating areas and clients are to be submitted alongwith the Technical Bid, in support of the experience criteria laid down above.	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.2 (iii)	In case the Bidder is a Consortium Companies, the following requirements must be satisfied by the Bidder: a) The leader of the consortium must satisfy the minimum experience requirement as per clause 1.1 above. b) The leader of the consortium must confirm unconditional acceptance of full responsibility of executing the "Scope of Work" of this tender. This confirmation must be submitted along with the technical bid. c) All the members of the consortium must undertake in the Memorandum of Understanding (MOU) that each party shall be jointly and severally liable to the Company for any and all obligations and responsibilities arising out of this contract.	YES <input type="checkbox"/> NO <input type="checkbox"/>	

CHECK LIST FOR BEC_03

Bid Rejection Criteria (Technical)			
Clause No.	Clause	Confirmation / Compliance	Reference in terms of Page no., Annexure etc. of bidder's offer
1.2 (iv)	Indian Companies/Joint Venture Companies: Indian bidder whose proposal for technical collaboration/joint venture involves foreign equity participation or payment of royalty and / or lump sum for technical know-how and wherever Govt. approval is necessary, are required to submit copy of Govt. approval, on their application submitted to SIA, prior to the date of price bid opening.	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.2 (v)	Bidder must submit alongwith their technical bid Memorandum of Understanding(MOU)/Agreement with their technical collaborator / Joint venture partner (in case of Joint venture) clearly indicating their roles under the scope of work.	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.2 (vi)	MOU/Agreement concluded by the bidder with technical collaborator/joint venture partner (in case of Joint Venture), must also be addressed to the Company, clearly stating that the MOU Agreement is applicable to this tender and shall be binding on them for the entire contract period. Notwithstanding the MOU/Agreement, the responsibility of completion of job under this contract will be with the bidder.	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.2 (vii)	Joint venture partnership / collaboration, with a firm bidding as an independent identity against this tender, will not be accepted.	YES <input type="checkbox"/> NO <input type="checkbox"/>	

CHECK LIST FOR BEC_04

<u>Bid Rejection Criteria (Technical)</u>			
Clause No.	Clause	Confirmation / Compliance	Reference in terms of Page no., Annexure etc. of bidder's offer
1.2 (viii)	<p>Offers of those bidders who themselves do not meet experience criteria as stipulated as per clause 1.1 above can also be considered provided the bidder is 100% subsidiary company of the parent company which itself meets the experience criteria vide clause 1.1 above. In that case, as the subsidiary company is dependent upon the experience of the parent company, with a view to ensure commitment and involvement of the parent company for successful execution of the contract, the participating bidder must enclose an agreement as per format enclosed vide Appendix-I between the parent and the subsidiary company and Corporate Guarantee as per format enclosed at Appendix-II from the parent company to OIL for fulfilling the obligations under the agreement.</p> <p>OIL approves in-principle to consider the bids of parent/subsidiary company(ies) based on experience/capabilities of any of them, provided all the companies referred to in the bid are controlled by a single parent company and they agree for joint and several responsibility including Corporate Guarantee for successful execution of the contract.</p>	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.2 (ix)	<p>In case of bidder and/or its technical collaborator and / or its joint venture partner and / or its consortium member is a foreign company and its offer is found technically acceptable, then OIL will seek clearance of appropriate Government Authorities (wherever applicable) before opening of price bids. Corresponding to the receipt of clearance, the price bids will be opened.</p> <p>Such bidders must submit all required details/documents to OIL alongwith their un-priced technical bid for seeking clearance. Bidder is required to confirm specific acceptance of this clause in their technical bid.</p>	YES <input type="checkbox"/> NO <input type="checkbox"/>	

CHECK LIST FOR BEC_05

Bid Rejection Criteria (Technical)			
Clause No.	Clause	Confirmation / Compliance	Reference in terms of Page no., Annexure etc. of bidder's offer
1.3	The bidder must have average annual financial turnover of at least of ` 35.21 Crore (or equivalent in foreign currency) in the last three years as per the Audited Annual reports. The bidder has to submit the Audited Annual report of last three years as supporting documentary evidence.	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.4	<p>The bidder must have successfully completed land 3D Seismic Data Acquisition and Processing upto Pre-STM during last seven years ending last day of the month previous to the one in which bids are invited as mentioned below.</p> <p>(i) Three (3) projects of land 3D Seismic Data Acquisition and Processing upto Pre-STM each costing not less than ` 46.95 Crore (or equivalent in foreign currency). OR</p> <p>(ii) Two (2) projects of land 3D Seismic Data Acquisition and processing upto Pre-STM each costing not less than ` 58.68 Crore (or equivalent in foreign currency). OR</p> <p>(iii) One (1) project of land 3D Seismic Data Acquisition and Processing upto Pre-STM costing not less than ` 93.90 Crore (or equivalent in foreign currency).</p> <p>The bidder has to provide documentary evidence in support of the above.</p>	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.5	The bids will be technically evaluated based on the requirements furnished in Section-V (Scope of Work/Terms of Reference). Bids which do not conform to the minimum specifications of equipment, hardware and software furnished therein and do not include all the jobs/services mentioned in the tender document will be considered as incomplete and rejected.	YES <input type="checkbox"/> NO <input type="checkbox"/>	

CHECK LIST FOR BEC_06

Bid Rejection Criteria (Technical)			
Clause No.	Clause	Confirmation / Compliance	Reference in terms of Page no., Annexure etc. of bidder's offer
1.6	The years of experience for key personnel and the vintage of equipment offered are specified in Annexure-I & II of Section – V (Scope of Work/Terms of Reference). Bidder has to submit the documentary evidence in support of the Vintage of the equipment which bidder proposes to deploy in the field for the execution of the contract. Bids shall be rejected if the equipment and the key personnel offered do not meet the specified requirement.	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.7	The bidder must categorically confirm to mobilize and commence operation within one hundred (100) days from the date of issue of LOA by Company. Mobilization shall be deemed to be completed when all personnel, equipment, tools, consumables and field crew are mobilized and also the equipment are fully tested & calibrated and necessary pre-acquisition experimental work conducted as specified in scope of work and first regular production shot is taken and accepted by the Company. Bidders must provide categorical confirmation of their capability and intent to meet this timing in their Technical Bid otherwise their Bid will be rejected.	YES <input type="checkbox"/> NO <input type="checkbox"/>	
1.8	Bidder must submit detailed Bio-data of all its key personnel to be deployed for the whole period of the project, along with the technical bid. Bidder shall deploy the same persons whose Bio-data is offered in the bid for data acquisition and processing. They shall not be replaced or transferred without prior notification to the Company. Company's approval is essential in case they are desired to be replaced by the bidder with equally competent persons and Company's decision in this regard will be final.	YES <input type="checkbox"/> NO <input type="checkbox"/>	