

Ref. No.: २४/१/ ०५/SDRF/USDMA/UGRIDP/2023

Date: १२ / ०६ / २०२३

## MINUTES OF PREBID MEETING

Minutes of Pre-bid conference held on 24/03/2023 (12:30 p.m.)

Description / Name of the Work :

Supply and Installation of Victim Locating Equipment & Air Lifting Bag Equipment; published in Tender Notice No. 696/PMU/UDRP-AF/2022-23 dated 10/03/2023

Package No./ NCB :

05/SDRF/USDMA/UGRIDP/2023

Names of those Present

From Employer/ Purchaser:

Sl. No.	Name/ Designation	Organization
1.	Deepak Singh, Dy. SP	SDRF, Uttarakhand
2.	Pramod Kumar Rawat, Inspector	SDRF, Uttarakhand
3.	Umrao Singh, SI	SDRF, Uttarakhand
4.	Vijay Prasad, SI	SDRF, Uttarakhand
5.	Rajeev Rawat, QM	SDRF, Uttarakhand
6.	Sumit Negi, SDRF Fireman	SDRF, Uttarakhand
7.	Ravinder Negi, CT	SDRF, Uttarakhand
8.	Yuvraj Giri, Procurement Consultant	SDRF, Uttarakhand
9.	Shivanshu Negi, Manager Contract Management	PMU, UDRP-AF
10.	Deepika Tomar, Procurement Officer	PMU, UDRP-AF

From Prospective Bidders:

Sl. No.	Name/ Designation	Company/ Firm Name
1.	Arun Bhatnagar, GM	Brijbasi Fire Safety Systems Pvt. Ltd.
2.	Paras Joshi, Manager	Vishwani Engineering Pvt. Ltd.
3.	Chandan Sinha, AGM Sales	Jyotech Engineering & Consultant
4.	Nitin Goyal, Proprietor	Elegant Medicare

Additional Project Director  
Project Management Unit  
UDRP-AF

सुनील शर्मा  
सार्वजनिक सेवा एवं विकास बोर्ड  
उत्तराखण्ड, भारत

शुभम

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सुनील शर्मा  
सार्वजनिक सेवा एवं विकास बोर्ड  
उत्तराखण्ड, भारत

### Table 1.0 Clarification:

The queries obtained from different firms and their clarification is as follows:

Sl. No.	Clause No. of ITB/GCC/SCC	Gist of the Query	Amendment Requested	Response	Remarks
Technical Specification					
1.	EXPERIENCE AND TECHNICAL CAPACITY	Bidder shall be a manufacturer, who has designed, manufactured, supplied, erected, commissioned equipment of similar type and capacity of at least 1 contract with minimum value INR 289.28 Lacs of similar goods in the past 3 years should be in successful operation for at least one year on the date of bid opening.	Kindly note that there have been less purchases of these items during 2020 & 2021 due to COVID 19. Request you to allow the purchase Order of last 4 Financial Years i.e. from 2018 – 19	Please see Addendum Point No. 1, Table 2.0	–
2.	PERFORMANCE BANK GUARANTEE	Performance Security shall be for an amount of 10% of the contract value	Kindly be noted that now a days Govt. Dept. allowing 3% PBG instead of 10%, hence requesting you to kindly allow the PBG of 3%.	No Change	–
3.	WARRANTY	After sales service is: The evaluation will take into account the cost of minimum 5 years comprehensive warranty which shall be included in quoted price (inclusive of all expenses) and shall start immediately after the commissioning of the equipment	Kindly be informed you that standard international warranty is 1 year or can be extended for 2 years. Request you kindly consider warranty clause upto 2 years	Please see Addendum Point No. 2 & 3, Table 2.0	–
4.	DELIVERY SCHEDULE	45 Days from the date of final contract signing.	It is Bulk requirement and battery part are involved and only way to import through Sea, so it required minimum 120 - 140 days, hence requesting you to kindly allow the delivery period min minimum 120 - 140 days from the date of final contract signing.	Please see Addendum Point No. 4, Table 2.0	–
5.	Technical Specifications AIT LIFTING BAG WEIGHT	Request you to kindly allow maximum weight +/- 5%.		Please see Addendum Point No. 5, Table 2.0	–
6.	DEMONSTRATION	Request you to kindly call for demonstration of quoted items during the technical evaluation or before opening of financial bid to check the technical specification parameter of your required items.		No Change	–
7.	QUALIFICATION CRITERIA (POINT NO. ii : EXPERIENCE AND TECHNICAL	Your tender says that Bidder shall be a manufacturer, who has designed, manufactured, supplied, erected, commissioned equipment of similar type and capacity of at least 1 contract with	1. Considering that India works on Financial Year basis and also there have been less purchases of these items due to COVID 19 lockdown / budget sanctions by Government Departments	Please see Addendum Point No. 1, Table 2.0	–

Project Director  
Project Management Unit  
UDRP-AF

టెక్నాలజీక  
ఎస్.డి.ఐ.ఎఫ., దార్హిలీ  
జోలీమార్కెట్, హైదరాబాద్,

ఎస్.డి.ఐ.ఎఫ., దార్హిలీ

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Sl. No.	Clause No. of ITB/GCC/SCC	Gist of the Query		Response
		Technical Specification	Amendment Requested	
1.	CAPACITY	minimum value INR 289.28 Lacs of similar goods in the past 3 years should be in successful operation for at least one year on the date of bid opening.	for the year 2019-20, 2020-21, we request that Qualification Criteria may please be allowed for Purchase Order Execution during last 3 (three) financial years i.e. (2021-22, 2020-21, 2019-20) or preferably last 4 or 5 financial years (2021-22, 2020-21, 2019-20, 2018-19, 2017-18).	PS: Considering that you want minimum one year performance also, the above is requested.
2.	DELIVERY SCHEDULE	Your tender says 45 Days from the date of final contract signing.	Please note that quantity is bulk and for imported items, these have to come by sea due to battery restrictions by air. Hence, we request for <b>minimum 4-5 months of Delivery Period.</b>	Please see Addendum Point No. 4, Table 2.0
3.	BANK GUARANTEE	Your tender says Performance Security shall be for an amount of 10% of the contract value.	Please note that post Covid, SECURITY / PERFORMANCE SECURITY has been REDUCED TO 3% as per NOTIFICATION from Ministry of Finance, Government of India, vide their Office Memorandum No. F.9/4/2020-PPD dated 12/11/2020. We request you to please amend this Performance Security for an amount of <b>3% of the basic contract value.</b>	No Change
4.	DEMONSTRATION	Since some bidders simply mention "compiled" in their bids, we request that <b>Demonstration of the quoted items</b> be made to check for compliance with technical specifications as part of the tender <b>before opening of financial Bids</b> to check the parameters of the quoted equipment as per your tender specifications.	No Change	Mr. <i>[Signature]</i> Additional Project Director Project Management Unit UDRP-AF

सेक्नारियक  
एस.ई.आर्ट. लाहिनी  
जैलियागढ़, देवदाहन

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Project Management Unit  
UDRP-AF

Sl. No.	Clause No. of ITB/GCC/SCC	Gist of the Query			Response	Remarks
		Technical Specification		Amendment Requested		
11.	WARRANTY	Your tender asks for price including Comprehensive Warranty for 5 years.		Most items world-wide come with one year warranty which gets extended to two years. It is thus requested to make Warranty as 2 years and thereafter you may enter into AMC or CAMC with concerned successful bidder	Please see Addendum Point No. 2 & 3, Table 2.0	-
12.	TECHNICAL SPECIFICATION (WEIGHT OF AIR LIFTING BAG SET)	Please allow weight value of +/-5% from your tender requirement.			Please see Addendum Point No. 5, Table 2.0	-
13.	Air Lifting Bag	The Individual Sizes Indicated Below to be compiled with maximum lifting capacity			Please see Addendum Point No. 5, Table 2.0	-
		33 ton	35 ton			
		44 ton	45 ton			
		55 ton	55 ton			
		70 ton	65 ton			
14.	--	In the Technical Bid the bidder must submit Certificates of conformance to international (EN) standards(EN 13731) or equivalent(CE or USFDA)		In the Technical Bid the bidder must submit Certificates of conformance to international (EN)standards(EN 13731) or equivalent(CE or USFDA)	Please see Addendum Point No. 5, Table 2.0	-
15.	VICTIM LOCATING EQUIPMENT:	Most of the specifications are perfect which is also followed by the NDRF, however except point no.8 which states that		“Camera head should be water proof with cable of minimum 20 meter length for bore well search victim. Same camera head should be used (as main one)” Why same motorized articulation underwater / in bore well also for maximum search area”	Please see Addendum Point No. 5, Table 2.0	-
				<b>Our submission is as below.</b>		
				1. “Camera head should be water proof with cable of minimum 20 meter length for bore well search victim. Same camera head should be used (as main one)” Why same camera should be used? Building collapse search operation and under water are completely different situations and both happening at same site is almost impossible. Also, if another camera is provided user has 2 different camera at the same cost which is additional advantage.		
				2. “and it should have motorized articulation underwater / in bore well also for maximum search area” In borewell search operation articulation is not required as wide angle camera easily covers much more than diameter of borewell. Also, articulation of 180 deg as mentioned earlier in specifications using rigid telescopic pole is understandable		

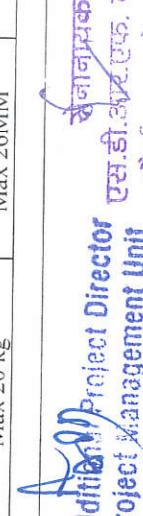
 **योगीनाथक एस.डी.प्रॉजेक्ट. कॉर्पोरेशन  
Additional Project Director**  
**Project Management Unit**

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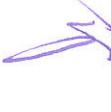
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Sl. No.	Clause No. of ITB/GCC/SCC	Gist of the Query		Response	Remarks																				
		Technical Specification	Amendment Requested																						
		as pole can be rotated manually by hand for 360 deg view.																							
16.	AIR LIFTING BAG SET	However in underwater, using cable it is impossible to control manual rotation, so what is the logic of 180 deg articulation?	So please amend the specifications to "Camera can be same as main camera or additional but it should be able to provide complete 360 deg view"	Please see Addendum Point No. 5, Table 2.0																					
17.	Technical Specifications Air Lifting Bag Set	Lifting bag specification are also inclined towards one particular company as mentioned in the beginning, we request you to amend the specifications as below particularly the weight. We would you to increase the max weight of bag as additional reinforcement layers lead to increase in weight but better safety and durability. Also Lifting bags of sizes required by you anyways will be required to be carried by 2 person due to the size and increasing the weight will still require 2 persons only.	<table border="1"> <thead> <tr> <th>Max Lifting Capacity</th> <th>Weight of bag</th> </tr> </thead> <tbody> <tr> <td>33 ton +/- 10%</td> <td>Max 15 kg</td> </tr> <tr> <td>44 ton +/- 10%</td> <td>Max 18 kg</td> </tr> <tr> <td>55 ton +/- 10%</td> <td>Max 28 kg</td> </tr> <tr> <td>70 ton +/- 10%</td> <td>Max 31 kg</td> </tr> </tbody> </table>	Max Lifting Capacity	Weight of bag	33 ton +/- 10%	Max 15 kg	44 ton +/- 10%	Max 18 kg	55 ton +/- 10%	Max 28 kg	70 ton +/- 10%	Max 31 kg	Please see Addendum Point No. 5, Table 2.0											
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70 ton +/- 10%	Max 31 kg																								
18.	Specifications for the air lifting bags equipment. Page 73/120	In the Technical Bid the bidder must submit Certificates of conformance to international (EN) standards(EN 13731) -- We request for the following specifications: The individual sizes indicated below are to be complied with.	<table border="1"> <thead> <tr> <th>Max Lifting Capacity</th> <th>Weight of bag</th> <th>Thickness</th> <th>Max. Lifting Height</th> </tr> </thead> <tbody> <tr> <td>33 ton</td> <td>Max 8 kg</td> <td>Max 26MM</td> <td>Min. 19 cm</td> </tr> <tr> <td>50 ton</td> <td>Max 12 kg</td> <td>Max 26MM</td> <td>Min. 35 cm</td> </tr> <tr> <td>55 ton</td> <td>Max 15 kg</td> <td>Max 26MM</td> <td>Min. 38 cm</td> </tr> <tr> <td>80 ton</td> <td>Max 20 kg</td> <td>Max 26MM</td> <td>Min. 45 cm</td> </tr> </tbody> </table>	Max Lifting Capacity	Weight of bag	Thickness	Max. Lifting Height	33 ton	Max 8 kg	Max 26MM	Min. 19 cm	50 ton	Max 12 kg	Max 26MM	Min. 35 cm	55 ton	Max 15 kg	Max 26MM	Min. 38 cm	80 ton	Max 20 kg	Max 26MM	Min. 45 cm	Please see Addendum Point No. 5, Table 2.0	
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 अडिशनल प्रोजेक्ट डायरेक्टर  
 एस.टी.आर.एफ. कार्पोरेशन  
 जीवितीकरण, हैदराबाद  
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 प्रोजेक्ट मैनेजमेंट इंडिव्युल  
 मैनेजर  
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 जीवितीकरण, हैदराबाद

Sl. No.	Clause No. of ITB/GCC/SCC	Gist of the Query		Response	Remarks
		Technical Specification	Amendment Requested		
		The reduced thickness shall give the department a great advantage when it comes to insert the bags in spaces less than 30mm. Accordingly reduced weights would be providing ease of handling.			
19.	Specifications for the air lifting bags equipment. Page 73/120	-- Bags to be in either rectangular or square in shape.  The shape of the bags can be rectangular or square ensuring wider participation in the tender. The higher operating and burst pressures ensure greater operational safety and enhanced lifting for a given surface area.		Please see Addendum Point No. 5, Table 2.0 --	
20.	Specifications for the air lifting bags equipment. Page 73/120	-- Operating pressure of all bags to be 12.0 bars. Bursting pressure > 48 bars.		Please see Addendum Point No. 5, Table 2.0 --	

  
 Additional Project Director  
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 एस.टी.आर.एफ. वाहिनी  
 जौलीगांव, देहरादून

Table 2.0 Addendum-1: for Package No. 05/SDRF/USDMA/UGRIDP/2023

S. No.	Clause No. ITB/GCC/SCC/Forms/ Specifications etc.	As Existing	As Amended						
1.	Section III -Evaluation and Qualification Criteria TECHNICAL PART 1. Qualification (ITB 32) Page No. 44-45	<p><b>TECHNICAL PART</b></p> <p><b>1. Qualification (ITB 32)</b></p> <p><b>1.1 Qualification Criteria (ITB 32.1)</b></p> <p>The Purchaser shall assess each Bid against the following Qualification Criteria. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.</p> <p>(a) If the Bidder is a manufacturer:</p> <p>(i) Financial Capability</p> <p>The Bidder shall furnish documentary evidence that it meets the following financial requirement(s):</p> <table border="1"> <thead> <tr> <th>Package No.</th> <th>Name of Supply</th> <th>Annual Turn Over (INR Lacs)</th> </tr> </thead> <tbody> <tr> <td>05/SDRF/USDMA/ UGRIDP/2023</td> <td>Supply and Installation of Victim Locating Equipment &amp; Air Lifting Bag Equipment</td> <td>INR 723.20 Lacs</td> </tr> </tbody> </table> <p>(ii) Experience and Technical Capacity</p> <p>The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):</p> <p>The bidder shall be a manufacturer, who has designed, manufactured, supplied, erected, commissioned equipment of similar type and capacity of at least 1 contract with minimum value <b>INR 289.28 Lacs</b> of similar goods in the past 3 years should be in successful operation for at least one year on the date of bid opening. Further, bidder should be in continuous business of manufacturing products similar to that specified in the schedule of requirements during the last three years prior to bid opening.</p> <p>(iii) Experience certificate issued by the purchaser mentioning contract form assuring full guarantee and warranty obligations as per GGC</p>	Package No.	Name of Supply	Annual Turn Over (INR Lacs)	05/SDRF/USDMA/ UGRIDP/2023	Supply and Installation of Victim Locating Equipment & Air Lifting Bag Equipment	INR 723.20 Lacs	<p>Refer to Sl. No. of Table 1.0</p> <p>Sl. No. 1 &amp; 7</p> <p><b>TECHNICAL PART</b></p> <p><b>1. Qualification (ITB 32.1)</b></p> <p>The Purchaser shall assess each Bid against the following Qualification Criteria. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.</p> <p>(a) If the Bidder is a manufacturer:</p> <p>i. <b>Financial Capability:</b> The bidder must have average annual Turnover of INR 360.00 Lacs (Indexed to the price level of the financial year 2022-2023 at the rate of 5% per year) in any 3 years in last five years. Certificate regarding annual sales turnover in last 5 years issued by the chartered accountant with audited balance sheets of last 5 years to be submitted.</p> <p>ii. <b>Experience and Technical Capacity:</b> The bidder shall be a manufacturer, who has designed, manufactured, supplied, erected, commissioned <b>Victim Locating Equipment &amp; Air Lifting Bag Equipment</b> of minimum value <b>INR 290.00 Lacs</b> in maximum 3 single orders in the past 5 Years. (<i>Experience certificate or commencement report/ material acceptance report/ supply order/ Gm CRAC with payment detail issued by the purchaser mentioning contract award date, quantity, amount, items detail and completion date in support of the satisfactory operation of the goods as specified above to be furnished to authenticate the same</i>).</p> <p>(b) If Bidder is not manufacturer:</p> <p>i. <b>Manufacturer's authorization:</b> the Bidder must submit manufacturer's legally enforceable authorization in the prescribed form assuring full guarantee and warranty obligations as per GGC</p>
Package No.	Name of Supply	Annual Turn Over (INR Lacs)							
05/SDRF/USDMA/ UGRIDP/2023	Supply and Installation of Victim Locating Equipment & Air Lifting Bag Equipment	INR 723.20 Lacs							

Additional Project Director   
Project Management Unit/एम.डी.पी.एफ. दार्शनी  
जौलीयालूक देवराहट  
UGRP-AF





S. No.	Clause No. ITB/GCC/SCC/Forms/ Specifications etc.	As Existing	As Amended	Refer to Sl. No. of Table 1.0
		<p>award date, quantity, amount, items detail and completion date in support of the satisfactory operation of the goods as specified above</p> <p>Certificate regarding average annual sales turnover in last three years issued by the chartered accountant with audited balance sheets of last three years.</p> <p>(b) If Bidder is not manufacturer:</p> <p>If a Bidder is not a manufacturer, but is offering the Goods on behalf of the Manufacturer under Manufacturer's Authorization Form (Section IV, Bidding Forms), the bidder shall demonstrate the above qualifications (i), (ii), (iii)</p> <p>(a) the manufacturer furnishes a legally enforceable authorization in the prescribed form assuring full guarantee and warranty obligations as per GCC and SCC; and</p> <p>b) the bidder, as authorized representative, has supplied, installed and satisfactorily commissioned and provided after sales service for at least 30% of the quantity specified in the Schedule of Requirements in any one of the last 3 years which must be in satisfactory operation for at least one year on the date of bid opening.</p> <p>2. The bidder should furnish the information on satisfactory performance for the packages being claimed above under experience.</p> <p>3. All bids submitted shall also include the following information</p> <ul style="list-style-type: none"> <li>(i) Copies of original documents defining the constitution or legal status, place of registration and principal place of business of the company or firm or partnership, etc.</li> <li>(ii) Details of Service Centers and information on service support facilities that would be provided after the warranty period.</li> <li>(iii) Reports on financial standing of the Bidder such as profit and loss statements, balance sheets and auditor's report for the past three years, bankers' certificates, etc.</li> </ul>	<p>ii. <b>Financial Capability:</b> The bidder must have average annual Turnover of INR 180.00 Lacs (Indexed to the price level of the financial year 2022-2023 at the rate of 5% per year) in any 3 years in last five years. Certificate regarding annual sales turnover in those 3 years issued by the chartered accountant with audited balance sheets to be submitted.</p> <p>iii. <b>Experience and Technical Capacity:</b> The bidder has supplied, erected, commissioned Victim Locating Equipment &amp; Air Lifting Bag Equipment of minimum value INR 180.00 Lacs in maximum 5 single orders in the past 5 years. (<i>Experience certificate or commencement report/ material acceptance report/ supply order/ GEM CRAC with payment detail issued by the purchaser mentioning contract award date, quantity, amount, items detail and completion date in support of the satisfactory operation of the goods as specified above to be furnished to authenticate the same</i>).</p> <p>2. The bidder should furnish the information on satisfactory performance for the packages being claimed above under experience.</p> <p>3. All bids submitted shall also include the following information</p> <ul style="list-style-type: none"> <li>(i) Copies of original documents defining the constitution or legal status, place of registration and principal place of business of the company or firm or partnership, etc.</li> <li>(ii) Details of Service Centers and information on service support facilities that would be provided after the warranty period.</li> <li>(iii) Reports on financial standing of the Bidder such as profit and loss statements, balance sheets and auditor's report for the past three years, bankers' certificates, etc.</li> </ul>	<p>Mr. <i>[Signature]</i></p> <p>Additional Project Director Project Management Unit IMD LTD</p> <p>Mr. <i>[Signature]</i></p> <p>संचालायक एस.डी.आर.पी.यू.पी.मैनेजमेंट सॉलिट्यूशन्स, इंडिया</p> <p>Mr. <i>[Signature]</i></p>

S. No.	Clause No. ITB/GCC/SCC/Forms/ Specifications etc.	As Existing	As Amended
2.	Section IX - Special Conditions of Contract GCC 28. <sup>3</sup> Page No. 101	The period of validity of the Warranty shall be: 5 Years  For purposes of the Warranty, the place(s) of final destination(s) shall be: SDRF Campus, Jollygrant, Dehradun	The period of validity of the Warranty shall be: 2 Years  For purposes of the Warranty, the place(s) of final destination(s) shall be: SDRF Campus, Jollygrant, Dehradun
3.	ITB 17.2 (B)	After sales service is: The evaluation will take into account the cost of minimum 5 years comprehensive warranty which shall be included in quoted price (inclusive of all expenses) and shall start immediately after the commissioning of the equipment.	After sales service is: The evaluation will take into account the cost of minimum <b>2 years</b> comprehensive warranty which shall be included in quoted price (inclusive of all expenses) and shall start immediately after the commissioning of the equipment.
4.	Section VII - Schedule of Requirements 1. List of Goods and Delivery Schedule Page No. 69	Delivery period:  45 Days from the date of final contract signing.	Delivery period:  90 Days from the date of final contract signing.
5.	Section VII - Schedule of Requirements 3. Technical Specifications, Page No. 71-73	3. Technical Specifications, as per Bid Document and attached as Annexure-A	Specifications have been revised and attached as Annexure-A  S.No. 5, 12-20

\*Note: Rest of the Terms & Conditions of the Bid Document shall remain same.

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एस.डी.आर.एफ. द्युक्की  
जौलीयाहन, देहरादून

Additional Project Director  
Project Management Unit  
UDRP-AF

## Annexure-A

S. No.	Name of Item	Specifications As per Bid Document	Revised Specifications
1	2	3	4
1	VICTIM LOCATING EQUIPMENT WITH BREACHING SYSTEM	<p>Purpose: Victim location systems to be acquired are designed for location and rescue of victims trapped under debris during natural calamities or in mine collapses or confined space disasters. They enable insertion below the debris of a telescopic probe which mounts, at its head, a sensitive video camera, supported by appropriate illumination, whose images can be viewed by the operator and other rescue personnel on remote display monitors. The system also integrates a two-way audio system which can pick up life sounds from the victim and also permits the passage of spoken instructions or assurances to him from the rescue team. Since a rigid telescopic probe has limitations on how far it can be inserted, the camera, light and sound system can also be mounted on one end of a cable which can be used to reach greater depths.</p> <p>The required Breaching System is a heavy duty drill used for making an entry hole for the probe of the victim location system through debris at the disaster site, or other overlaying material required to be breached to enable the search camera to access underlying void spaces. It should allow rescue teams to breach most common construction materials with only one system. Its coring bits, carbide tipped diamond studded should be able to bore through wood, nails, sheet metal and roofing materials and reinforced concrete. The system should have a collar for attachment of coring bits as well as for cooling water to be delivered to the spinning carbide tipped diamond studded bits when used.</p>	<p>Purpose: Victim location systems to be acquired are designed for location and rescue of victims trapped under debris during natural calamities or in mine collapses or confined space disasters. They enable insertion below the debris of a telescopic probe which mounts, at its head, a sensitive video camera, supported by appropriate illumination, whose images can be viewed by the operator and other rescue personnel on remote display monitors. The system also integrates a two-way audio system which can pick up life sounds from the victim and also permits the passage of spoken instructions or assurances to him from the rescue team. Since a rigid telescopic probe has limitations on how far it can be inserted, the camera, light and sound system can also be mounted on one end of a cable which can be used to reach greater depths.</p> <p>The required Breaching System is a heavy duty drill used for making an entry hole for the probe of the victim location system through debris at the disaster site, or other overlaying material required to be breached to enable the search camera to access underlying void spaces. It should allow rescue teams to breach most common construction materials with only one system. Its coring bits, carbide tipped diamond studded should be able to bore through wood, nails, sheet metal and roofing materials and reinforced concrete. The system should have a collar for attachment of coring bits as well as for cooling water to be delivered to the spinning carbide tipped diamond studded bits when used.</p> <p><b>Capabilities Required (Victim Location System):</b></p> <ul style="list-style-type: none"> <li>- The system's primary configuration will be based on a video camera mounted at one end of a rigid telescopic probe</li> </ul>

   
**Additional Project Director** **Project Management Unit**  
 एस.टी.आर.एस. दाहिनी  
 वैकल्पिक प्रबन्ध संकाय, देवदारु





   
**Additional Project Director** **Project Management Unit**  
 एस.टी.आर.एस. दाहिनी  
 वैकल्पिक प्रबन्ध संकाय, देवदारु

   
**Additional Project Director** **Project Management Unit**  
 एस.टी.आर.एस. दाहिनी  
 वैकल्पिक प्रबन्ध संकाय, देवदारु





S. No.	Name of Item	Specifications As per Bid Document	Revised Specifications
1	2	3	4
		<p>attachment of coring bits as well as for cooling water to be delivered to the spinning carbide tipped diamond studded bits when used.</p> <p>Capabilities Required (Victim Location System):</p> <ol style="list-style-type: none"> <li>The system's primary configuration will be based on a video camera mounted at one end of a rigid telescopic probe which can reach out into depths and void spaces upto a distance greater than 9ft.</li> <li>The colour video camera should be minimum 1/3" CCD with 4,70,000 pixel or more with low light sensitivity to better than 0.1 Lux. The camera head should have motorized remote controlled travel articulation of 180° right to left, with a viewing area not less than 120°. Illumination to be provided by a min. 12 element LED/xenon lamp integrated into the camera head which can illuminate up to 6m or more in total darkness.</li> <li>The colour video camera should be minimum 1/3" CCD with 4,70,000 pixel or more with low light sensitivity to better than 0.1 Lux. The camera head should have motorized remote controlled travel articulation of 180° total, right to left, with a viewing area not less than 120°. Illumination to be provided by a min. 12 element LED/xenon lamp integrated into the camera head which can illuminate up to 6m or more in total darkness.</li> <li>The system will be provided with two display monitors, one at the operator level and the second for remote viewing by other rescue personnel at a distance not less than 20 m from the operator position. The monitors should be flat screen LCD active matrix of minimum size 6", measured diagonally.</li> <li>The system will be provided with a two-way audio system. Maximum Gain will be better than 90 dB. The camera will also house a speaker. The operators' headset will incorporate noise attenuating earphones and a boom microphone through which messages or instructions may be passed to the victim through the speaker housed in the camera piece. The probe operator will be provided motorized remote controlled probe with ergonomic controls.</li> <li>The probe should not more than 5 kgs.</li> <li>Two rechargeable dry batteries and a charger should be provided. The batteries should enable 3 hours continuous use and the charger should recharge these to 90% in less than two hours.</li> <li>The system should be water resistant capable of operation</li> </ol>	<p>which can reach out into depths and void spaces upto a distance greater than 9ft.</p> <ul style="list-style-type: none"> <li>- The colour video camera should be minimum 1/3" CCD with 4,70,000 pixel or more with low light sensitivity to better than 0.1 Lux. The camera head should have motorized remote controlled travel articulation of 180° total, right to left, with a viewing area not less than 120°. Illumination to be provided by a min. 12 element LED/xenon lamp integrated into the camera head which can illuminate up to 6m or more in total darkness.</li> <li>- The system will be provided with two display monitors, one at the operator level and the second for remote viewing by other rescue personnel at a distance not less than 20 m from the operator position. The monitors should be flat screen LCD active matrix of minimum size 6", measured diagonally.</li> <li>- The system will be provided with a two-way audio system. Maximum Gain will be better than 90 dB. The camera will also house a speaker. The operators' headset will incorporate noise attenuating earphones and a boom microphone through which messages or instructions may be passed to the victim through the speaker housed in the camera piece. The probe operator will be provided motorized remote controlled probe with ergonomic controls.</li> <li>- The probe should not more than 5 kgs.</li> <li>- Two rechargeable dry batteries and a charger should be provided. The batteries should enable 3 hours continuous use and the charger should recharge these to 90% in less than two hours.</li> <li>- The system should be water resistant capable of operation</li> </ul>

  
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जौलीखण्ड, देहरादून

S. No.	Name of Item	Specifications As per Bid Document	Revised Specifications
1	2	3	4
		<p>will incorporate noise attenuating earphones and a boom microphone through which messages or instructions may be passed to the victim through the speaker housed in the camera piece. The probe operator will be provided motorized remote controlled probe with ergonomic controls.</p> <p>5. The probe should not more than 5 kgs.</p> <p>6. Two rechargeable dry batteries and a charger should be provided. The batteries should enable 3 hours continuous use and the charger should recharge these to 90% in less than two hours.</p> <p>7. The system should be water resistant capable of operation in a temperature range of -10° to +50° C.</p> <p>8. Camera head should be water proof with cable of minimum 20 meter length for bore well search victim. Same camera head should be used (as main one) and it should have motorized articulation underwater / in bore well also for maximum search area.</p>	<ul style="list-style-type: none"> <li>- Camera Head should be water proof with cable of minimum 20 meter length for bore well search victim. Same camera head should be used (as main one)</li> <li>- Integrated lightweight 2.5m probe with Pistol Grip style Control Unit</li> <li>- Camera Head has min 12 LED Illumination bulbs which provides clear image over a distance of more than 6m even in total darkness. The camera Head LED bulb has more than 1,000 hours life span</li> <li>- Unique Magazine Cassette Type Rechargeable Battery System which provides total 4 hours operation. Less than 60 min charging time.</li> <li>- Camera Head can be separated from Control Unit so that the Camera Head can be lowered or utilized in a variety of restricted space such as crack or well by adding the optional 20m ,30m,50m extension cable</li> <li>- Water proof : Underwater 50m available by sliding a Slide Cover which is installed on the housing</li> <li>- Display Type: Min 6" LCD Monitor / Video System: PAL or NTSC, Pixels -Min. 470000, 1/3" Interline transfer</li> <li>- Audio System High Sensitivity Amplifier ( with variable gain ) / Gain (Max): 90 dB / Level:119 dB / Frequency: 200–10,000Hz / Current: 9 mA / Power: DC7V</li> <li>- Capabilities Required (Breaching System).</li> <li>- Power head weight- not more than 12 kgs.</li> <li>- Boring speed- not less than 5 Cms per minute in standard construction grade concrete.</li> <li>- Breaching depth - 150 cm</li> <li>1. Power head weight- not more than 12 kgs.</li> <li>2. Boring speed- not less than 5 Cms per minute in standard construction grade concrete.</li> <li>3. Breaching depth - 150 cm</li> <li>4. Bits- Diamond faced coring bits for medium to hard grade concrete (min.dia-52mm) capable of coring holes of minimum diameter of 55 mm (55mm).</li> <li>5. Cooling- pressurized water can, 2 gallon capacity with</li> </ul>

  
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		<p>not less than 3 m hose with quick connect fittings.</p> <p>6. Field service kit- Canvas storage pouch, spare fuel tank cap, starter recoil assembly, Allen key set for starter assembly, spare spark plug, spark plug wrench.</p> <p>Scope of Supply:</p> <ol style="list-style-type: none"> <li>1. Complete victim location system with camera mounted on rigid telescopic frame greater than 9 feet along with video display monitor, two-way audio system incorporating search microphone and communication speakers in camera housing and under-helmet headset with earphones and boom microphones, operator consoles all packed in appropriate water tight, dust proof carry case.</li> <li>2. Separate remote hard-wired display monitor with extension cable to 20 m.</li> <li>3. Two batteries and charger.</li> </ol>	<p>concrete (min.dia-52mm) capable of coring holes of minimum diameter of 55 mm (55mm).</p> <ul style="list-style-type: none"> <li>- Cooling- pressurized water can, 2 gallon capacity with not less than 3 m hose with quick connect fittings.</li> <li>- Field service kit- Canvas storage pouch, spare fuel tank cap, starter recoil assembly, Allen key set for starter assembly, spare spark plug, spark plug wrench.</li> <li>- Scope of Supply:</li> <li>- Complete victim location system with camera mounted on rigid telescopic frame greater than 9 feet along with video display monitor, two-way audio system incorporating search microphone and communication speakers in camera housing and under-helmet headset with earphones and boom microphones, operator consoles all packed in appropriate water tight, dust proof carry case.</li> <li>- Separate remote hard-wired display monitor</li> <li>- Two batteries and charger.</li> <li>- Main Unit, Telescopic Rod, Head Set, Underwater Camera Head, Extension Cable (20 m)</li> </ul>
2	AIR LIFTING BAG SET	TECHNICAL SPECIFICATIONS	<p><b>PURPOSE</b> - Airlifting bags should be pneumatics appliance that can be used for variety of lifting purposes in rescue works in the wake of vehicle and railroad accidents, collapsed shelters or road clearance works amongst other situations. They can be slid into spaces below loads where normal jacks cannot be positioned. They can be used over uneven ground surfaces where again normal jacks will be unstable and dangerous. They can be used to relocate, topple, align and enable lifting by cranes or chain lifting systems. Whereas normal jacks concentrate the lifting energy over a small area, airlifting bags provide lifting pressure over a much larger area. They should be easy to maintain, durable, and lightweight. The bags are to be</p> <p style="text-align: right;">लेखालयाकर एस.टी.आर.एम. याहिनी जोनीयापात्र, दृष्टान्त UDRR-AF</p> <p style="text-align: right;"><i>[Signature]</i></p>

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1	2	<p>airlifting bags provide lifting pressure over a much larger area. They should be easy in maintenance effort, durable and light weight.</p> <p><b>SCOPE OF SUPPLY -</b> Each set of high pressure airlift bags is an air-jacking system comprising one bag each in 4 sizes in term of maximum lift capacities, i.e. a total of 4 bags PER SET, with accessories as indicated in para below:</p> <p>The individual sizes indicated below are to be complied with.</p>	<p>made of multiple layers with aramid construction reinforcement. Bags to be in square or rectangular shape.</p> <p><b>Scope of Supply:</b> Each set of high-pressure airlift bags is an air-jacking system comprising four bags in different sizes in terms of maximum lift capacities, i.e., a total of four bags per set, with accessories as indicated below.</p> <p>Description and specifications of 4 bags in each set are as below:</p> <table border="1"> <thead> <tr> <th>Piece</th><th>Lifting Capacity</th><th>Weight of bag</th><th>Lifting height</th></tr> </thead> <tbody> <tr> <td>1</td><td>33 ton (+/- 5%)</td><td>Max 12 kg (+/- 5%)</td><td>Min. 36 cm(+/-5%)</td></tr> <tr> <td>2</td><td>44 ton (+/- 5%)</td><td>Max 15 kg (+/- 5%)</td><td>Min. 40 cm (+/-5%)</td></tr> <tr> <td>3</td><td>55 ton (+/- 5%)</td><td>Max 20 kg (+/- 5%)</td><td>Min. 45 cm (+/-5%)</td></tr> <tr> <td>4</td><td>70 ton (+/- 5%)</td><td>Max 22 kg (+/- 5%)</td><td>Min. 50 cm (+/-5%)</td></tr> </tbody> </table> <p>3. Each set will be provided with following accessories to operate up to 4bags at a time:-</p> <ul style="list-style-type: none"> <li>• 4 inflation hoses 5m long with push lock couplers</li> <li>• 2 Dual Deadman controllers</li> <li>• 2 Pressure Reducers for air cylinders 300 bars</li> <li>• 4 Shut off Valve with Safety Valve</li> <li>• The bags are to be made of multiple layers with aramid construction re-enforcement. Bags to be in square shape.</li> <li>• The bags should have anti-slip dimpled surfaces to provide good grip and high traction between the bag and surface of the object to be lifted as well stacked on top of each other.</li> </ul> <p><b>Thickness of each bag - Max 30MM</b></p> <p>The bags are made of multiple layers with aramid construction reinforcement. Bags are square-shaped with anti-slip dimpled surfaces to provide good grip and high traction between the bag and surface of the object to be lifted as well as when stacked on top of each other.</p> <p><b>Technical Requirements</b></p> <ul style="list-style-type: none"> <li>• Type of Bag – Flat Bags</li> <li>• Pressure – 8 bar or 12 bar</li> <li>• Operating temperature -20 to +50 degrees centigrade for the bags.</li> <li>• In the Technical Bid, the bidder must submit Certificates of Conformance to international (EN) standards</li> </ul>	Piece	Lifting Capacity	Weight of bag	Lifting height	1	33 ton (+/- 5%)	Max 12 kg (+/- 5%)	Min. 36 cm(+/-5%)	2	44 ton (+/- 5%)	Max 15 kg (+/- 5%)	Min. 40 cm (+/-5%)	3	55 ton (+/- 5%)	Max 20 kg (+/- 5%)	Min. 45 cm (+/-5%)	4	70 ton (+/- 5%)	Max 22 kg (+/- 5%)	Min. 50 cm (+/-5%)
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1	2	3	4
		<ul style="list-style-type: none"> <li>pressure &gt; 32 bars.</li> <li>Operating temperature -20 to +50 degrees centigrade for the bags.</li> <li>In the Technical Bid the bidder must submit Certificates of conformance to international (EN) standards(EN 13731)</li> </ul>	(EN 13731).

Note:- Bidders are requested to submit their bid as per the revised specifications mentioned in column-4 of Annexure-A

  
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**Sunita Singh  
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