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## Corrigendum 1

**Date: 10-01-2025**

**Tender ID:** 2024\_DREV\_836033\_1

**Title:** Request for Proposal (RFP) for Onboarding of a Managed Services Provider (MSP) for conducting GIS and Satellite Survey & Implementation of GIS and image processing platform for monitoring of Opium Cultivation in Central Bureau of Narcotics

#	Section as per RFP and Page No.	Content As per RFP	Revised Clause
1.	(Evaluation Criteria)-Evaluation Criteria TQ1.1; Page No. 32.	Lead Bidder financial strength: Average Annual Turnover (AAT) <ul style="list-style-type: none"><li>• AAT &gt;35 and &lt;=50 Cr.: 5 Marks</li><li>• AAT &gt;50 and &lt;=100 Cr: 10 Marks</li><li>• AAT &gt;100 Cr.: 15 marks</li></ul>	The clause to be read as:  Criteria Bidder's Past Experience and Strength Lead Bidder financial strength: Average Annual Turnover (AAT) <ul style="list-style-type: none"><li>• AAT &gt;35 and &lt;=50 Cr.: 5 Marks</li><li>• AAT &gt;50 and &lt;=100 Cr: 10 Marks</li><li>• AAT &gt;100 Cr.: 15 marks</li></ul> Certificate from the Statutory Auditor along with extracts from the audited balance sheet and profit & loss statement for financial year <b>(2021-22, 2022-23 and 2023 -24)</b> from GIS/IT related projects.

#	Section as per RFP and Page No.	Content As per RFP	Revised Clause
2.	Pg No. 28-29; 4.1. Pre-Qualification /Technical Qualification Criteria	<p>5: Experience in GIS Implementation and Survey: The Lead Bidder or Consortium Partner should have successfully executed:</p> <p>a. projects of design, development, and implementation of GIS application services/Drone based Survey/ satellite survey/image processing/ yield estimation yield estimation with contract value of:</p> <ul style="list-style-type: none"> <li>o one project of value &gt; INR 6 Cr</li> <li>or</li> <li>o 2 similar projects of value&gt; INR 3.5 Cr</li> <li>or</li> <li>o 3 projects of value &gt; INR 2.5 Cr</li> </ul> <p>for any Govt./PSUs during the last 7 years as on date of submission. Project value of only Supply, Installation, Testing and Commissioning (SITC) of hardware shall not be considered.</p> <p>In case of projects having both SITC of hardware and GIS and satellite-based implementation/ Drone based survey/ satellite survey/image processing/ yield estimation, only value of software, services, Drone based survey, satellite survey, image processing, yield estimation and implementation part shall be considered.</p> <p>CA certificate on project value with component bifurcations need to be provided by the bidder.</p>	<p>The clause to be read as:</p> <p>5: Experience in GIS Implementation and Survey: The Lead Bidder or Consortium Partner should have successfully executed:</p> <p>a. projects of design, development, and implementation of GIS application services/Drone based Survey/ satellite survey/image processing/ yield estimation yield estimation with contract value of:</p> <ul style="list-style-type: none"> <li>o one project of value &gt; INR 6 Cr</li> <li>or</li> <li>o 2 similar projects of value&gt; INR 3.5 Cr</li> <li>or</li> <li>o 3 projects of value &gt; INR 2.5 Cr</li> </ul> <p>for any Govt./PSUs during the last 7 years as on date of submission. Project value of only Supply, Installation, Testing and Commissioning (SITC) of hardware shall not be considered.</p> <p><b>In case of On-going projects, work order and phase completion certificate from client shall be required. At least 50% payment realization is must at the time of submission. For payment realization, CA certificate required to be submitted along with technical bid.</b></p> <p><b>In case of projects having both SITC of hardware and GIS and satellite-based implementation/ Drone based survey/ satellite survey/image processing/ yield estimation, only value of software, services, Drone based survey, satellite survey, image processing, yield estimation and implementation part shall be considered.</b></p> <p><b>CA certificate on project value with component bifurcations need to be provided by the bidder.</b></p>

#	Section as per RFP and Page No.	Content As per RFP	Revised Clause
3.	6.1. Evaluation Criteria for Technical Proposal, TQ 1.2, Page no. 32-33	<p>The Lead Bidder/Consortium Partner should have successfully executed projects of design, development, and implementation of GIS application services/Drone based Survey/ satellite survey/image processing/ yield estimation for any Govt./PSUs in India or outside India during the last 7 years as on date of submission. Project including only Supply, Installation, Testing and Commissioning (SITC) of hardware, shall not be considered.</p> <p>5 Marks</p> <ul style="list-style-type: none"> <li>• one project of value &gt; INR 6 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 2 similar projects of value&gt; INR 3.5 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 3 projects of value &gt; INR 2.5 Cr</li> </ul> <p>10 Marks</p> <ul style="list-style-type: none"> <li>• 2 projects of value &gt; INR 6 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 3 similar projects of value&gt; INR 3.5 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 4 projects of value &gt; INR 2.5 Cr</li> </ul> <p>20 Marks</p> <ul style="list-style-type: none"> <li>• 3 projects of value &gt; INR 6 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 4 similar projects of value&gt; INR 3.5 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 5 projects of value &gt; INR 2.5 Cr</li> </ul>	<p>The Lead Bidder/Consortium Partner should have successfully executed projects of design, development, and implementation of GIS application services/Drone based Survey/ satellite survey/image processing/ yield estimation for any Govt./PSUs in India or outside India during the last 7 years as on date of submission. Project including only Supply, Installation, Testing and Commissioning (SITC) of hardware, shall not be considered.</p> <p>5 Marks</p> <ul style="list-style-type: none"> <li>• one project of value &gt; INR 6 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 2 similar projects of value&gt; INR 3.5 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 3 projects of value &gt; INR 2.5 Cr</li> </ul> <p>10 Marks</p> <ul style="list-style-type: none"> <li>• 2 projects of value &gt; INR 6 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 3 similar projects of value&gt; INR 3.5 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 4 projects of value &gt; INR 2.5 Cr</li> </ul> <p>20 Marks</p> <ul style="list-style-type: none"> <li>• 3 projects of value &gt; INR 6 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 4 similar projects of value&gt; INR 3.5 Cr</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>• 5 projects of value &gt; INR 2.5 Cr</li> </ul> <p>In case of projects having both SITC of hardware and GIS and satellite-based implementation, only value of software, services and implementation part shall be considered.</p>

#	Section as per RFP and Page No.	Content As per RFP	Revised Clause
		In case of projects having both SITC of hardware and GIS and satellite-based implementation, only value of software, services and implementation part shall be considered. CA certificate on project value with component bifurcations need to be provided by the bidder.	CA certificate on project value with component bifurcations need to be provided by the bidder.  <b>In case of On-going projects, work order and phase completion certificate from client shall be required. At least 50% payment realization is must at the time of submission. For payment realization, CA certificate required to be submitted along with technical bid.</b>
4.	Page 113 - B. Functional Requirements of Web-GIS Application (For Authority Staff)	<b>xxiii. Video / CCTV Surveillance Interface</b> <ul style="list-style-type: none"> <li>• User should be able to see the location of CCTV cameras installed and mapped on to the GIS map.</li> <li>• System should have provision to integrate with video feeds available from CCTV camera.</li> </ul>	The clause to be read as: <b>xxiii. Video / CCTV Surveillance Interface: The system should be capable of integrating and displaying live video feeds from the CCTV cameras during drone flights for real-time monitoring and analysis.</b>  This clause to be understood as:  This requirement pertains to the use of CCTV cameras installed on drones, with video feeds captured during drone flights. Consequently, a Video/CCTV interface with platform is needed for the storage, viewing, and monitoring of these video feeds.
5.	4.1. Pre-Qualification /Technical Qualification Criteria: PQ4 Page 28 of 168	Turnover: The Lead Bidder member should have average annual Turnover of INR 35 Crore for the last 3 audited financial years (2020-21,2021-22 and 2022-23) from GIS/IT projects Lead Bidder should have positive net worth and should be a profit -making company as per the audited consolidated financial statements in each of the last three financial years.	The clause to be read as:  Turnover: The Lead Bidder member should have average annual Turnover of INR 35 Crore for the last 3 audited financial years <b>(2021-22, 2022-23 and 2023-24)</b> from GIS/IT projects Lead Bidder should have positive net worth and should be a profit -making company as per the audited consolidated financial statements in each of the last three financial years.

#	Section as per RFP and Page No.	Content As per RFP	Revised Clause
6.	12. Project Deliverables & Timelines Page 65 of 168	12. Project Deliverables & Timelines The overall engagement period is of 60 months: Note: M1 = 1st November 2024 M2 = 1st October of 2025 M3 = 1st October of 2026 M4 = 1st October of 2027 M5 = 1st October of 2028	The clause to be read as:  12. Project Deliverables & Timelines The overall engagement period is of 60 months: Note: <b>M1 = 1st November 2025</b> <b>M2 = 1st October of 2026</b> <b>M3 = 1st October of 2027</b> <b>M4 = 1st October of 2028</b> <b>M5 = 1st October of 2029</b>
7.	6. Evaluation Criteria, 6.1. Evaluation Criteria for Technical Proposal, TQ1.5 (2 <sup>nd</sup> part)- GIS Operator , Page 33	GIS Operator from any of the members of the consortium (0.6 mark each for individual resource) a) Educational Qualification: • M. Sc/M.Tech in Geo-informatics/Remote Sensing/Post Graduate Degree in Geography or Equivalent = 0.3 Marks • Else 0	The clause to be read as:  "GIS Operator from any of the members of the consortium (0.6 mark each for individual resource) a) Educational Qualification: • <b>B.Sc/B.E/B.Tech in Geo-informatics/Remote Sensing</b> 0.3 Marks • Else 0"
8.	Section 9.1.4.2, Page No 45	Online Opium license issuance portal	Technology Stack The Current Portal is developed in Java technology. Database: MySQL 2019 Frontend: Java Script, JQuery Backend: Java 1.8
9.	Section 14, Payment Terms, Year 1 Point No. 2 and 6, Page No 70,	Point 2: 40% of BoQ (Item No 1.1, 1.2, 1.3, 1.4) and 1.6 of respective year + 5% o  Point 6: 5% of BoQ Item No 2.2	The clause to be read as:  Point no. 2; " <b>40% of BoQ (Item No 1.1, 1.2, 1.3, 1.4) "</b> .  Point no. 6; " <b>NIL</b> " As 1.6 is not line item in financial bid format Hence, removed from Payment Terms.

#	Section as per RFP and Page No.	Content As per RFP	Revised Clause
10.	Page 106, 17.13. Annexure 13 (Mobile Application for Survey), Item 5, Scope of work	Develop wire frames for new UI or existing UI revamps, wherever required, upon written request by the AUTHORITY or representatives thereof. Please note that this includes creation of new UI or enhancements or adjustments to be made to existing UI, in response to external events, change in functionality or other factors.	Technology Stack The Current Portal is developed in Java technology. Database: MySQL 2019 Frontend: Java Script, JQuery Backend: Java 1.8
11.	Page No.53&54, 9.4 Design of Enterprise GIS Architecture	Minimum No. of users on Intranet simultaneously editing GIS data - 10  Minimum No. of users collecting GIS data from remote sensing devices integrated with GIS application - 500	The clause to be read as: Minimum No. of users on Intranet simultaneously editing GIS data - 10 "Minimum No. of users collecting GIS data from remote sensing devices <b>through mobile application integrated</b> with GIS application - 500".  Above requirement is minimum, Bidder should consider the scalability in such a way that the functional requirement and timeline should not be affected due to a smaller number of simultaneously users.
12.	17.14. Annexure 14 D. Technical Requirement, Point No.5, Page No.114,	System should run as a native 64-bit application and should support windows 64- bit and Linux 64-bit operating system.	The clause to be read as:  System should run as a native 64-bit application and should support windows 64- bit <b>or</b> Linux 64-bit operating system <b>or system should be platform agnostic with any other platform.</b>
13.	9.3, Technical Specifications for customized platform, Page No 50	Software platform should support Windows or Linux or any other platforms. GIS Server software should support standard Web server/application servers like IIS/Apache/ Tomcat/Web Sphere/Web logic etc.	The Clause to be read as:  Software platform should support Windows or Linux or any other platforms. GIS Server software should support standard Web server/application servers like IIS/Apache/ Tomcat/Web Sphere/Web logic etc. <b>"and system should be platform agnostic with any other platform"</b> .
14.	9.3, Technical Specifications for customized platform, Page No 53	Software should have license free 64bit administrator client to crawl and manage geospatial data.	The Clause to be read as:  <b>"Software should have license free 64bit administrator client or the software should provide an open-source, platform-independent client or a license-free toolset that allows users to crawl and manage geospatial data"</b> .

#	Section as per RFP and Page No.	Content As per RFP	Revised Clause
15.	9.3, Technical Specifications for customized platform, Page No 53	The system must stream high volumes of data over an Enhanced Compressed Wavelet Protocol (ECWP) for browser-based web client and desktop SW like AutoCAD etc.	The clause to be read as:  The system must stream high volumes of data over an ECWP/ <b>“LERC/JPEG/JPEG2000, LWZ, RLE etc for browser-based web client and desktop SW like AutoCAD etc”.</b>
16.	Pg. No. 14, Data Sheet, Point No. 19	Maximum number of consortium members permissible - 2	Clause to be read as “Maximum number of consortium members permissible – 3”



### Clarification

#	Section as per RFP and Page No.	Content As per RFP	Clarification
1.	Page 47 - 9.2. Scope of Work for Digital Imagery based identification of illicit Opium Crops	Collection of Drone based UAV imagery for spectroscopic imaging <ul style="list-style-type: none"> <li>•CMOS sensor camera-based UAVs to be flown in suspected areas in interval of 10 days</li> <li>•Spectral imagery (for alkaloid content in poppy pod estimation)</li> </ul>	Clause to be read as “for illegal cultivation only identification of area is required.”
2.	Page 47 - 9.2. Scope of Work for Digital Imagery based identification of illicit Opium Crops	Validation with ground survey Data <ul style="list-style-type: none"> <li>•Ground scouting for matching crops with vegetation index</li> <li>•Recode NDVI ranges to crop type</li> </ul>	The clause to be read as “Yes for illegal cultivation only identification of area is required. Bidder is solely responsible for sourcing, integration, implementation, and execution of the project without compromising SLA at no additional cost.
3.	Page 48 - 9.2.2. Collection of UAV Imagery for spectroscopic imaging	Drones are to be deployed on need basis (subject to conditions as mentioned in Annexure) for collection of optical imagery in suspected illegal opium cultivation areas. The UAVs to be used should meet the minimum specification as listed below and in Annexure of this document: <ul style="list-style-type: none"> <li>• 10 cm resolution camera (for monitoring cum alkaloid content estimation)</li> <li>• Spectral imagery (for alkaloid content in poppy pod estimation)</li> <li>• Sample size (at least 3-year image data required for developing model for forecasting and yield biomass estimation)</li> <li>• Suggested frequency of drone in crop cycle 3 times (gum-based lancing)</li> </ul>	For illegal cultivation only identification of area is required. As per RFP.
4.	Page 48 - 9.2.3. Analysis of Satellite Imagery	Post collection of Satellite and UAV optical imagery data, the bidder needs to analyze the imagery for crop index identification: <ul style="list-style-type: none"> <li>• Step 1: Extraction of AOI (area of interest) from the imagery which can also be terms as study area delineation.</li> <li>• Step 2: Overlaying of Satellite Imagery collected for different seasons. Further the images are to be processed to prepare TIFFs/IMGs/ECWs seamless images.</li> </ul>	For illegal cultivation only identification of area is required. <ol style="list-style-type: none"> <li>1. Bidder must do multiple rounds of Satellite Imagery for the identified areas during different seasons.</li> <li>2. Crop Index is required for the illegal opium cultivation areas as per requirement.</li> </ol>

#	Section as per RFP and Page No.	Content As per RFP	Clarification
		<ul style="list-style-type: none"> <li>• Step 3: NDVI image generation on basis of the satellite imageries can be used to generate crop pattern map.</li> <li>• Step 4: Identify the spectral signature and code them to their respective crops. Prepare crop pattern maps.</li> </ul>	
5.	Page No.51 & 52, 9.3. Technical Specifications	Maintaining data history, version management and conflict detection /resolution. Version/audit trail capability for multiple users editing and tracking of the editing work done by various users	This functionality asked in the RFP is mandatory and requirement listed in the RFP are minimum requirement, bidders are allowed to use any better or higher specifications to meet the SLA at no additional cost.
6.	Page No. 91, Section 17.8, Annexure 8.	DGPS Survey for GPS points for Georeferencing/Orthorectification of Satellite Image	While doing the survey, DGPS technology shall not be required. The bidder may fulfil the requirement with the help of satellite imagery, UAV and manual methods.
7.	Page No. 48, Section 9.2. Scope of Work for Digital Imagery based identification of illicit Opium Crops	3. Identification of illegal opium cultivation through satellite and UAV imagery of about 8500 hectares.	<p>The clause to be considered as " 3. Identification of illegal opium cultivation through satellite and UAV imagery of about <b>7500</b> hectares."</p> <p>In addition, the Procurement of Satellite Imagery for illicit Opium Cultivation Area and UAV Survey in illicit Opium Cultivation area <b>7500</b> Hectare (constant for all 5 years).</p>
8.	MSME applicants	Whether the relaxations announced by the Govt. of India for MSME are applicable in this tender or not?	Considering the criticality of the project, ample number of relaxations already provided in the tender. However, MSME can participate as a consortium partner or sub-contractor.