



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2025/B/6094059
Dated/दिनांक : 27-03-2025

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	17-04-2025 18:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	17-04-2025 18:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	180 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Water Resources River Development And Ganga Rejuvenation
Department Name/विभाग का नाम	Na
Organisation Name/संगठन का नाम	National Mission For Clean Ganga
Office Name/कार्यालय का नाम	New Delhi
क्रेता ईमेल/Buyer Email	tl.procurement@nmcg.nic.in
Item Category/मद केटेगरी	Custom Bid for Services - Please refer to ATC
Similar Category/समान श्रेणी	<ul style="list-style-type: none">• Drone as a Service• GIS related Survey Services• Hiring of GIS Implementation Agency for Survey, Software Development and Master Planning related activities
Contract Period/अनुबंध अवधि	1 Year(s) 3 Month(s)
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	1000 Lakh (s)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	7 Year (s)
Past Experience of Similar Services required/इसी तरह की सेवाओं का पिछला आवश्यक अनुभव है	Yes
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/ and Turnover/टर्नओवर के लिए एमएसई को छूट प्राप्त है	Yes

Bid Details/बिड विवरण	
Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/ and Turnover/ टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है	Yes
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Do you want to show documents uploaded by bidders to all bidders participated in bid?/	No
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days
Estimated Bid Value/अनुमानित बिड मूल्य	115168000
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Financial Document Indicating Price Breakup Required/मूल्य दर्शाने वाला वित्तीय दस्तावेज़ ब्रेकअप आवश्यक है	Yes

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	2303360

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
ePBG Percentage(%) /ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months)/ईपीबीजी की अपेक्षित अवधि (महीने).	17

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के

दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी :

National Mission for Clean Ganga
1st Floor, Major Dhyan Chand National Stadium, India Gate, New Delhi - 110002
(National Mission For Clean Ganga)

MII Compliance/एमआईआई अनुपालन

MII Compliance/एमआईआई अनुपालन	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Years of Past Experience required: The bidder must have experience for number of years as indicated above in bid document (ending month of March prior to the bid opening) of providing similar type of services to any Central / State Govt Organization / PSU. Copies of relevant contracts / orders to be uploaded along with bid in support of having provided services during each of the Financial year.
5. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.
6. Past Experience of Similar Services: The bidder must have successfully executed/completed similar Services over the last three years i.e. the current financial year and the last three financial years(ending month of March prior to the bid opening): -
 1. Three similar completed services costing not less than the amount equal to 40% (forty percent) of the estimated cost; or
 2. Two similar completed services costing not less than the amount equal to 50% (fifty percent) of the estimated cost; or
 3. One similar completed service costing not less than the amount equal to 80% (eighty percent) of the estimated cost.

Excel Upload Required/एक्सेल में अपलोड किए जाने की आवश्यकता :

Financial Proposal - [1743076083.xlsx](#)

Additional Qualification/Data Required/अतिरिक्त योग्यता /आवश्यक डेटा

Instruction To Bidder:[1743076093.pdf](#)

Pre Qualification Criteria (PQC) etc if any required:[1743076096.pdf](#)

Scope of Work:[1743076099.pdf](#)

Payment Terms:[1743076101.pdf](#)

Project Experience and Qualifying Criteria Requirement:[1743076106.pdf](#)

GEM Availability Report (GAR):[1743076146.pdf](#)

Undertaking of Competent Authority is mandatory to create Custom Bid for Services. Please download standard format document and upload:[1743076167.pdf](#)

This Bid is based on Quality & Cost Based Selection (QCBS) . The technical qualification parameters are :-

Parameter Name	Max Marks	Cutoff Marks	Qualification Methodology Document
Please refer to ATC	100	70	View File

Total Minimum Qualifying Marks for Technical Score: 70

QCBS Weightage(Technical:Financial):80:20

Pre Bid Detail(s)

Pre-Bid Date and Time	Pre-Bid Venue
04-04-2025 11:00:00	Google Meet joining info Video call link: https://meet.google.com/tuq-dofn-ova

Custom Bid For Services - Please Refer To ATC (1)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification	Values
Core	
Description /Nomenclature of Service Proposed for procurement using custom bid functionality	Please refer to ATC
Regulatory/ Statutory Compliance of Service	YES
Compliance of Service to SOW, STC, SLA etc	YES
Addon(s)/एडऑन	

Additional Specification Documents/अतिरिक्त विशिष्टि दस्तावेज़

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	The quantity of procurement "1" indicates Project based or Lumpsum based hiring.	Additional Requirement/अतिरिक्त आवश्यकता
1	Avshesh Chauhan	110002,National Mission for Clean Ganga, Ministry of Jal Shakti, Department of Water Resources, River Development and Ganga Rejuvenation, First Floor, Major Dhyan Chand National Stadium, India Gate, New Delhi-110002	1	N/A

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The buyer can increase or decrease the contract quantity or contract duration up to 25 percent at the time of issue of the contract. However, once the contract is issued, contract quantity or contract duration can only be increased up to 25 percent. Bidders are bound to accept the revised quantity or duration

2. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.

10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

All GeM Sellers / Service Providers are mandated to ensure compliance with all the applicable laws / acts / rules including but not limited to all Labour Laws such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972 etc. Any non-compliance will be treated as breach of contract and Buyer may take suitable actions as per GeM Contract.

This Bid is governed by the [General Terms and Conditions/सामान्य नियम और शर्तें](#), conditions stipulated in Bid and [Service Level Agreement](#) specific to this Service as provided in the Marketplace. However in case if any condition specified in General Terms and Conditions/सामान्य नियम और शर्तें is contradicted by the conditions stipulated in Service Level Agreement, then it will over ride the conditions in the General Terms and Conditions.

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---

SECTION- I

SELECTION AND QUALIFYING CRITERIA & GENERAL CONDITIONS

1.0 SITE VISIT

Intending Bidder(s) are advised to inspect and examine the site and its surroundings at their own cost and ensure full understanding of the conditions before submitting their bids. The bidder shall assess all aspects of the site, including rainfall, temperature, humidity, accessibility, and terrain, before bid submission. No claim shall be entertained on the grounds that the information provided by NMCG is insufficient.

The bidder, at their own expense, interest, responsibility, and risk, must visit and examine the site and its surroundings to gather all necessary information required for bid preparation and contract execution.

The Scope of Work under this project shall be carried out in accordance with the Detailed Technical Specifications provided for all works.

2.0 QUALIFYING CRITERIA: ONLINE TECHNICAL BID SUBMISSION

The intending bidders must read the terms & conditions of tender documents carefully. The bidder should only submit its technical bid if considers themselves eligible and in possession of all the documents required.

The Technical Bid shall be uploaded online by using appropriate sections on the e-procurement portal, **with properly readable, colored scanned copies of following documents. All the documents must be Serial wise as stated below along with check list and clearly marked page no. on each page. Any of the following document not uploaded/submitted or having misleading information shall be out rightly rejected as per discretion power of tender inviting authority.**

Format of Check List				
S.N.	Particular of Document	Yes	No	Page Nos. From-to
a)	Authorization Letter to sign the Tender on bidder's original letter head or Power of attorney from the competent authority of the firm			
b)	Scanned copy of EMD for the amount of Rs.23,03,360. EMD shall be in the form of Bank Guarantee/ e-Bank Guarantee issued by any of the Nationalised/ Scheduled Banks in India in favour of the National Mission for Clean Ganga payable at New Delhi			
c)	Bid Submission Letter in prescribed format on bidder's original letter Head			
d)	Yearly financial Turnover and Audited Balance Sheet for Last 5 (five) years* ending on the financial year 2023-24 duly certified by Chartered Accountant.			

Format of Check List				
S.N.	Particular of Document	Yes	No	Page Nos. From-to
	<ul style="list-style-type: none"> The contractor should not have incurred any financial loss (profit after tax should be positive) in more than 2 years during the last 5 years ending 2023-24. Duly audited and certified statement by the Chartered Accountant shall be submitted along with UDIN Number. 			
	<ul style="list-style-type: none"> Turnover: Average annual financial turnover should be at least Rs.10 Cr in last 3 consecutive financial years ending 2023-24. Duly audited and certified statement by the Chartered Accountant shall be submitted along with UDIN Number. 			
	<ul style="list-style-type: none"> Full Balance Sheet and Profit & loss Statement of Bidder should be verified by Chartered Accountant. 			
e)	<p>The bidder should have completed one similar type of project* in India during last 7 Years ending previous day of last date of submission of tender with any Govt. department/semi Government/ state Govt. department / PSU as a principal contractor under a single contract with value not less than Rs.9 crores.</p> <p>Note:</p> <p>1. *Similar type of projects shall mean carrying out Manned LiDAR Survey including photography using aircraft/helicopter, Data/Image Processing works for Water Resources/Forest Projects. Project should be carried out in India for a State/Central Government Departments / PSU as a principal contractor under a single contract.</p> <p>The LiDAR survey works should have been carried out by the bidder itself and not through sub-contracting to any other agency.</p> <p>The bidder shall submit Experience Certificate(s) mentioning name, nature of work(s), value(s) of the job(s), date(s) of commencement, stipulated date(s) of completion and actual date(s) of completion along with LOI(s)/W.O(s) from respective Owner(s)/Client(s) duly signed by authority having rank Executive Engineer and above.</p>			

Format of Check List				
S.N.	Particular of Document	Yes	No	Page Nos. From-to
	<p>2. The works should be carried out in India only under a single contract.</p> <p>The past experience in similar nature of work should be supported by certificates issued by the Client's organization. The completion / experience certificates, along with the supporting documents, shall be got verified from the issuing authority / organizations prior to award of works. In case, the works / certificates are not verified by the issuing authority, NMCG reserves the right to not consider for the award of works.</p>			
g)	Name, Address, details of the Organization, Name(s) of the Owner/Partners/Promoters and Directors of the firm / company in tabular format.			
h)	Copy of P.F and PAN Number.			
i)	Goods and Service Tax (GST): Bidders should submit the valid GST registration certificate, which are mandatory, as per Govt. of India notification regarding GST.			
j)	<p>The bidder should be an Indian Registered Company under Companies Act 1956/2013 Proprietorship Firm/ Partnership Firm/ Limited company private or public or corporation.</p> <p>Joint Ventures/Consortium/Associations are not accepted/allowed except aviation partner (for aircraft/helicopter lease).</p> <p>Copy of Certificate of Incorporation/ Registration/ Partnership Deed or any other relevant document, as applicable, should be submitted along with a copy of address proof.</p> <p>NOTE: Proprietor firms shall submit registration details or shall submit the copy of relevant page of Pass book for the Current Account in the name of Proprietor Firm.</p>			
k)	Bidder should not be blacklisted/ debarred by any government/ semi government department/ PSU in the last 5 years. Bidders shall give undertaking for not being involved in any form of corrupt and fraudulent practices.			

Format of Check List														
S.N.	Particular of Document	Yes	No	Page Nos. From-to										
p)	<p>The bidder should have owned/leased of the following infrastructure to execute the work. * Should be owned by bidder ** can be hired, however lease agreement should be submitted</p> <table border="0"> <tr> <td>Equipment</td> <td>Quantity</td> </tr> <tr> <td>IMU *</td> <td>1 Each</td> </tr> <tr> <td>DGPS Units*</td> <td>5 Each</td> </tr> <tr> <td>Aerial Lidar and Digital Camera of >=150 MP*</td> <td>1 Each</td> </tr> <tr> <td>Survey Aircrafts/ Helicopters** (Own or Lease)</td> <td>1 Each</td> </tr> </table>	Equipment	Quantity	IMU *	1 Each	DGPS Units*	5 Each	Aerial Lidar and Digital Camera of >=150 MP*	1 Each	Survey Aircrafts/ Helicopters** (Own or Lease)	1 Each			
Equipment	Quantity													
IMU *	1 Each													
DGPS Units*	5 Each													
Aerial Lidar and Digital Camera of >=150 MP*	1 Each													
Survey Aircrafts/ Helicopters** (Own or Lease)	1 Each													
q)	Detailed methodology along with equipment (including their specifications) proposed for this project.													
r)	The bidder is required to submit the names and bio-data of all the technical personnel proposed to be deployed for this work together with the estimated man-month effort expected to be contributed by each person. Further, all the personnel proposed to be deployed for this assignment must be on roll of the company.													
t)	Undertaking on acceptance of NIT terms & conditions with signed copy of RFP													

No information relating to financial terms of services should be included in the technical bid. Bids are to be submitted to determine that the bidder has a full comprehension of the tendered work. Where a bidder technical submittal is found non-compliant with the requirement of work, it may be rejected. This process is to assure that only technical acceptable bids are considered for the tendered work.

NOTES:

Bidders who full fill the above requirements shall only be qualified for technical evaluation. Non-fulfilment of any of the above requirements by any bidder will automatically lead to its technical disqualification. Therefore, bidders are requested to make sure that they submit all the relevant papers which meet all the above mentioned requirements.

3.0 Contents of financial Bid

The Financial Bid should be uploaded online by using appropriate sections on the e-procurement portal

The bidder shall quote keeping in view all associated costs with the project including any out of pocket / mobilization expenses/ Custom duty (if any), Buildings and other construction workers welfare cess, TDS, taxes if any applicable as per Govt. terms, shall be paid by the successful bidder. **The Goods and Services Tax (GST) shall be paid to the successful bidder as per Govt. norms only on submission of proofs.**

It is mandatory to bidders to deposit GST within time limit framed by Govt. of India, if applicable. NMCG shall be performing all its duties of deduction of TDS and other deduction on payment made to the contractor as per applicable legislation in force on the date of submission of bid or to be newly / amended introduced during the execution of the Contract.

The quoted rates/amounts shall be deemed to be firm throughout the project till the completion of work and shall not be subject to any adjustment due to the increase in price of materials, utilities, taxes, duties etc. or any other input for performance of work and the contract.

The contract may be extended, according to the direction of Project Authority. In this case, the rates quoted by the bidder will remain firm and no escalation shall be applicable for extension. Therefore, it is advised to contractor to quote the rate accordingly.

Do not submit any bid information in the offline mode otherwise it will lead to rejection of bid.

NMCG reserves the right to waive minor deviations if they do not materially affect the capability of the Tenderer to perform the contract.

b) JOINT VENTURE

Joint Venture / Consortium / Associations are strictly not accepted/allowed except aviation partner (for Aircraft/Helicopter Lease).

c) BID PRICES

1. The bidder shall fill in rates and prices for all the items of the schedule of works. The basic rates should be **inclusive of all applicable taxes & duties (if any) as well as GST, which will be paid as applicable.**
2. The quoted price shall include, but not be limited to, the following activities:
 - All the survey works in the field, office work, including preparation of maps/ drawings/ sketches to the scales and extent indicated in the letter of acceptance, provision of skilled personnel, provision and maintenance of instruments and accessories, carry

forward of temporary bench marks, stay at the project site, TA & DA of employees, provision of suitable labour etc;

- Restricting or stopping traffic of persons and vehicles near instruments or in sightlines during instrument observations.
- Taking all necessary safety precautions;
- Clearing sight lines by removal of bushes and scrub.
- Access to the project site
- Making of temporary paths for movement of equipment's etc.
- Any stoppage of works due to any unforeseen reason.

3. The unit rates should include all taxes & duties, GST, calibration, insurance, transportation etc. and nothing extra will be paid over and above the contract price beyond the quoted value.

4. Income tax and all other taxes, levies, impositions, deductions, charges, fees and similar assessments whatsoever imposed, assessed, levied or collected by the State Government and the Government of India or any subdivision thereof or any tax authority therein upon the contractor (Successful bidder to whom the work is awarded by NMCG and his staff, shall be paid and/ or borne by the Bidder and NMCG shall perform duty of deduction from Bidder's payments whenever required by law.

5. Any conditional bid shall be rejected.

d) BID VALIDITY

The offer(s) submitted by the bidder shall be valid for a period of 180 (One Hundred Eighty) days from the date of opening of the quotations.

e) BID OPENING

The bids shall be opened through online e-procurement portal on the due date and time specified in the bid document, in the presence of bidders or their authorized representative, who choose to be present. The bidders may choose to witness the electronic bid opening procedure online.

f) EVALUATION & SELECTION CRITERIA

1. TECHNICAL

The first stage of technical evaluation will be based on Qualifying criteria as given in para 2.0. The bidders qualifying the said qualifying criteria will be only considered for further technical evaluation.

The evaluation of the tender shall depend upon the technical strength of the Bidder, the qualification & experience of the staff deployed, the turnover and financial strength of the company, the nature of the projects executed of the similar type etc. The Bidder shall be awarded points for each criterion mentioned below. The weightage of each criterion is also shown against it. The financial bid shall be opened only of those contractor(s) whose basic qualification criteria is meeting as per clause above and whose weightage in technical evaluation criteria will be 70

points or more on 100- point scale. The bidder has to provide inputs to meet the evaluation criteria as given below. Sufficient data/documents need to be enclosed for technical evaluation.

Technical Evaluation of the bids would be carried out on broad parameters as given below:

1. Bidder's Competence (40%of the total weightage)
2. Resources (20%of the total weightage)
3. Approach and Methodology (20%of the total weightage)
4. Bidders Infrastructure setup (20%of the total weightage)

If any bidder fails to submit any of the required documents as per the relevant criteria mentioned under Section above (QUALIFYING CRITERIA), their bids will not be further evaluated and their technical score / marks shall be treated as **0 (zero)** and hence will be termed as not qualified technically for this work.

The evaluation categories would be divided into various sub-categories, as broadly mentioned below:

Bidder Competence Score for Evaluation process- : (40 Marks)

Evaluation Criteria	Max. Marks	Criteria
Specific experience	15	Experience in flying and acquiring aerial LiDAR data in India for Government/PSU projects related to Water Resources/Forest/ Agriculture under a single contract having value of : Project Cost >20 Cr 15 marks
Similar assignment:	15	Experience in Aerial LIDAR and photogrammetry data processing including Design, development and deployment of cloud based GIS platform for Water Resources/Forest Projects/mining in India for Govt/PSU under a single contract with project cost > 20 Cr
Similar assignment for application:	10	Experience in developing and implementation of cloud-based platform/Dashboard for visualization and analytics of aerial lidar/photogrammetry spatial data having at least 5 Projects for Water Resources/Forest /mining/Railway/Highway/Power Projects in India for govt/PSU.

Resources (20 Marks)

Evaluation Criteria	Max. Marks	Criteria
Quality of Manpower in company	5	Total technical resource strength of the firm for Aerial and Mobile LiDAR Survey, Geospatial Map creation, System development – 25 Nos Professionals.(15marks for 25 or more nos of professionals and proportionately reduced marks for less than 25 professionals)
Quality of the Technical Manpower Proposed for the project Implementation	5	Suitability of the proposed Project Manager in terms of relevant years of experience – Minimum 10 Years.(10marks for 10yrs or more experienced and proportionately reduced marks for less than 10yrs experienced)
	10	Total technical resource related to IT/Software development on roles of the company -10 Nos (B Tech Electronics/Comp Sc/IT). List with Relevant document need to be submitted
Bidder should provide notarized affidavit for the above requirement		

Infrastructure setup to execute Proposed Solution (20)

Evaluation Criteria	Max. Marks	Criteria
Aircraft / Helicopter And Equipment	8	Availability of Aircraft/Helicopter – Own (3 Marks), lease (1 marks) Aerial Digital Camera with IMU – Own (5 marks)
	5	Availability of LIDAR data processing software – 2 Nos. Licenses in own company name
	2	Availability of ground survey equipment including DGPS – 5 Nos (Calibrated within last two years)
	5	Drone with UIN for Aerial Videography more than 5 Nos.- Own (5 marks) <ul style="list-style-type: none"> Ownership/lease/Transfer date should not be after tender publish date.
Bidder should provide notarized affidavit for the above requirement		

Approach and Methodology (20)

Evaluation Criteria	Max. Marks	Criteria
Bidders Approach	10	Overall approach of the bidder towards Aerial LiDAR data capture and processing
Bidder's compliance to Technical Requirements	5	Extent of compliance to the requirements specified in scope of work (Survey and Software Development)
Project Management Methodology	5	Completeness of the proposed project plan with proper Timelines, Responsibility Matrix, and change Management

The past experience in similar work under evaluation and selection criteria should be supported by certificates issued by the Client's organization. The work order and completion / experience certificates, along with the supporting documents, shall be got verified from the issuing authority / organizations prior to award of works. In case, the works / certificates are not verified by the issuing authority, NMCG reserves the right to not consider for the award of works. The contractor should have completed the similar work during the last 5 years before the submission of this bid. The minimum marks required to qualify for technical evaluation is 70.

Shortfall Documents

NMCG may ask the Bidders for submission of clarification documents, if required. Request for documents and the response shall be in writing and no changes in the prices of the Bid shall be sought, offered or permitted. No modification of the Bid and any form of communication with NMCG or submission of any additional documents, not specifically asked for by NMCG, will be allowed and even when submitted, they will not be considered by NMCG.

Right to Accept/ Reject the Bid

NMCG reserves the right to accept or reject any Bid and to annul the bidding process and reject all such bids at any time prior to award of contract, without thereby incurring any liability to the affected applicant(s) or any obligation to inform the affected applicants(s) of the grounds for such decision. The NMCG reserves the right to reject incomplete or incorrect bids

2. OPENING OF FINANCIAL BID

The financial bids of the technically qualified bidders shall be opened at the notified date & time.

3. SELECTION CRITERIA – FINANCIAL

The Technical Committee (TC) notified by the competent authority will evaluate all the bids received. All prospective Bidders who submit bids will be informed of the results of both technical and financial evaluation at an appropriate time. The results will also be published in the e-procurement portal, without disclosure of any confidential information. Recommendation of the TC and acceptance by the Competent authority of NMCG shall be the final decision and will be final in result of selection of the Agency and no further correspondence will be entertained in this regard. Bidder will be selected by means of "Quality Cum Cost Basis" selection method with 80% weightage for technical proposal and 20% weightage for financial proposal. Detailed technical and financial evaluation process is explained below.

The Bidder is not permitted to alter or modify its proposal in any way after the proposal submission. While evaluating the proposals, TC will conduct the evaluation solely on the basis of the submitted Technical and Financial Proposals.

NMCG shall evaluate the Technical Proposals on the basis of their responsiveness to the Terms of Reference and the RFP, applying the evaluation criteria, sub-criteria, and point system. Each responsive Proposal will be given a technical score. A Proposal shall be rejected at this stage if it does not meet the PQ Criteria.

Technical Proposal Evaluation: (Weightage 80%)

Total points for the four criteria are 100. **The minimum technical score required to pass is 70.**

Financial Proposal Evaluation: (Weightage 20%)

The Financial Bid shall be opened publicly in the presence of the bidders representatives who choose to attend. The name of the contractor, the technical scores and the proposed prices shall be read aloud and recorded when the Financial Bid are opened.

The lowest Financial Proposal (Fm) will be given a financial score (Sf) of 100 points. The financial scores (Sf) of the other Financial Proposals will be computed as per following formula: $Sf = 100 \times Fm/F$,

Sf = financial score,

Fm = lowest price and

F = price of the proposal under consideration

Combined Score of Technical and Financial Evaluation:

The weights given to the Technical and Financial Proposals are:

T (Technical Proposal) = 0.80 and P (Financial Proposal) = 0.20

Proposals will be ranked according to their combined technical (St) and financial (Sf) scores using the weights as indicated above:

$S = St \times T\% + Sf \times P\%$.

4. AWARD OF WORK

The work (contract) will be awarded to the bidder whose bid has been determined to be substantially responsive to the bidding documents and the Bidder achieving the highest combined technical and financial score will be selected as qualified bidder for the award of contract.

Bid Submission Letter

To
National Mission for Clean Ganga,
1st Floor, Major Dhyan Chand National Stadium,
India Gate, New Delhi-110002

Sub: Tender for *[insert project name]*

Ref: Tender No.

I/ We, the undersigned, offer to provide our services as per scope of work, as mentioned in tender document, to National Mission for Clean Ganga. We are hereby submitting our bid on e-procurement portal by using appropriate sections.

I/We, hereby declare that:

- (a) We are submitting herewith our Bid, with the details as per the requirements of the tender, for your evaluation and consideration.
- (b) We submitted the Bid Security in accordance with the tender Document.
- (c) I/We have read carefully the terms and conditions of tender document attached hereto and hereby agree to abide by the said terms and conditions.
- (d) The bid is unconditional.
- (e) I/We undertake that documents submitted are genuine/authentic and nothing material has been concealed. I/We understand that the contract is liable to be cancelled, if it is found to be having obtained, through fraudulent means/concealment of information.
- (f) We shall make available to the NMCG any additional information it may find necessary or require to clarify, supplement or authenticate the Bid.
- (g) Until a formal agreement is prepared and executed, acceptance of this tender document shall constitute a binding contract between NMCG and us subject to the modifications, as may be mutually agreed to, between NMCG and us.
- (h) The Financial Proposal is being submitted separately by using the appropriate section on GeM portal. This Technical Bid read with the Financial Bid shall constitute the Proposal which shall be binding on us.
- (i) We agree to keep this bid valid for acceptance for a period of 180 days from the date of opening the bid.

We understand that the NMCG is not bound to accept any tender that the NMCG receives.

Yours faithfully,

(Signature, name and designation of the authorised signatory)
(Name and seal of the Bidder)

FORM OF BID SECURITY (EMD)

B.G.No:

Dated:

WHEREAS,(*name of Bidder*) (hereinafter called “the Bidder”) has submitted its Bid (hereinafter called the “Bid”) dated (*date*) for the performance of (*name of Contract*).

KNOW ALL PEOPLE by these presents that We (*name of Bank*) of..... (*name of country*) having our registered office at (hereinafter called “the Bank”) are bound unto (hereinafter called “the Owner”) in the sum offor which payment well and truly to be made to the said Owner, the Bank binds itself, its successors, and assigns by these presents.

[The Bidder should insert the amount of the guarantee in words and in figures. This figure should be the same amount as set out in RFP clause no.15.1. The details related to the Bid Security are set out in the same RFP Clause].

The CONDITIONS of this obligation are:

- a. If the Bid has been termed as non-responsive in accordance with the provisions of the RFP document.
- b. if the Bidder withdraws its Bid during the Bid Validity Period; or
- c. if the Bidder, having been notified of the acceptance of its Bid by the Owner during the period of Bid validity,
 1. fails to accept the Contract in accordance with and when required by the tender document.; or
 2. fails to provide the performance security to the Owner in accordance with the tender provisions
- d. If the Bidder fails to commence the assignment as per contract provisions.

We undertake to pay to the Owner up to the above amount upon receipt of its first written demand, without the Owner having to substantiate its demand, provided that in its demand the Owner will note that the amount claimed by it is due to it owing to the occurrence of one or more of the conditions set out above, specifying the occurred condition or conditions.

This Guarantee will remain in full force up to and including 45 days after the expiry of the Bid Validity Period and it may be extended by the Owner in accordance with the Bidding Documents, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date or the extended date.

This guarantee shall also be operatable at our..... Branch at New Delhi, from whom, confirmation regarding the issue of this guarantee or extension / renewal thereof shall be made

available on demand. In the contingency of this guarantee being invoked and payment there under claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.

Notwithstanding anything contained herein before, our liability under this guarantee is restricted to Rs. _____ (Rs. _____) and the guarantee shall remain valid till _____. Unless a claim or a demand in writing is made upon us on or before _____ all our liability under this guarantee shall cease.

Notwithstanding anything contained hereinabove”

- A. Our liability under this guarantee shall not exceed Rs. _____ (Rupees _____).
- B. This bank guarantee shall be valid up to _____.
- C. We are liable to pay the guarantee amount or any part thereof under this bank guarantee only and only if you serve upon us, a written claim or demand on or before _____.

Signature and Seal of the Guarantor _____

In presence of

Name and Designation

1. _____
(Name, Signature & Occupation)

Name of the Bank

Address

2. _____
(Name & Occupation)

Date

Financial Bid (BoQ)

(This form is provided at GeM Portal <https://gem.gov.in/> . Bidders are advised to download and fill the required details in the permitted cells and upload the same

SECTION-II

SCOPE OF WORK & TECHNICAL SPECIFICATIONS

Survey and GIS-Based Visualization of River Morphology and Drainage Patterns

1.0 Scope of Work:

The study will cover an estimated area of **2200 sq. km of Ganga River Basin**, with specific boundaries provided in detail upon the award of the contract. The scope of services will be confined within the administrative boundaries of **Uttar Pradesh**, focusing on:

- **Hydrological and environmental assessment** to analyse pollution sources, and remedial measures.
- **Impact analysis** of industrial, agricultural, and urban activities on the Ganga River ecosystem.
- **Development of strategic interventions** to improve wastewater management, biodiversity conservation, and sustainable water use.
- **Integration of GIS-based mapping** to support planning and decision-making processes.

The exact boundary of the study area will be supplied in detail along with the award letter to the successful bidder.

S.No.	Item	Quantity
1	Total Area to be Surveyed for Lidar point cloud, ORI and Video	2200 sq.km
2	GIS based Digital Dashboard with analytics module	1

The objective of this assignment is to carry out Aerial lidar and Photogrammetry survey and aerial video acquisition under the districts in, Uttar Pradesh.

The required Ground-control points for aerial survey will be carried out by the Bidder. As such the Survey rate should be inclusive of establishment of Ground Control points based on project requirement. The data should be connected to CORS station.

The objective of this project is to develop a GIS-based web application for the visualization and analytics of photogrammetry 2D, 3D data, and videos to identify large, medium, and small drains, as well as Sewerage Treatment Plants (STPs) along the River Ganga. This system will leverage automated geospatial techniques for data processing, classification, and reporting, providing an intuitive platform for stakeholders to analyze and monitor river pollution sources effectively.

A. Web Application Development

The web application will feature a responsive GIS-based dashboard that provides interactive

mapping capabilities. The platform will be accessible via web and mobile interfaces, allowing users to analyze spatial data seamlessly. The interface will be designed to accommodate role-based access for different stakeholders, including administrators, government authorities.

For data visualization, the system will support 2D and 3D visualization of river topography and drainage structures. Users will be able to overlay historical and real-time data to perform comparative analyses. The application will incorporate layer-based spatial analysis, enabling hydrological modelling and terrain evaluation to study drainage patterns effectively.

The web application will also support spatial querying and analytics to facilitate location-based searches. Users will be able to query the database to retrieve information about specific drain locations. Additionally, the platform will include custom filtering options to sort data based on chainage, drain type, and proximity to STPs.

The application will include a comprehensive reporting and data export module. Users will be able to generate custom reports that highlight pollution trends, drainage insights, and hydrological analyses. The system will allow data exports in various formats, including PDF, Excel, GIS shapefiles, and KML. Additionally, real-time data collection tools will be integrated to facilitate field updates and ongoing monitoring efforts.

A chainage-wise strip chart will be integrated into the system, visually representing large, medium, and small drains along the river's course. This strip chart will allow users to identify pollution sources at specific chainages and analyze their impact efficiently.

The GIS web application will be hosted on NIC Cloud or an on-premise server provided by NMCG, ensuring secure and scalable deployment. The hosting environment will comply with government security standards and provide high availability and data redundancy to support continuous operations.

The system will also include video analytics capabilities to process and analyze geo-tagged videos captured from aerial surveys. The video analytics module will help detect and classify discharge points, pollution sources, and drainage outlets using automated techniques. This feature will enhance monitoring and provide visual validation of detected pollution sources.

B. Compliance & Data Integration

To ensure regulatory compliance, the system will align with **National Mission for Clean Ganga (NMCG)** standards.

General Specifications:

- b) Before quoting the rates, the agency shall inspect the site of work and fully acquaint itself with the site conditions in regard to accessibility, terrain, and any other factors that may affect the satisfactory execution of the work. No claim whatsoever shall be entertained due to difficult site conditions beyond the unit rates quoted by the survey agency.
- c) The quoted rates shall include the cost of **labour, equipment, boats, and all necessary resources** required for the work, including the construction of a site office.

No additional payment shall be made under any circumstances beyond the rates quoted by the agency for the relevant items in the schedule of quantities.

- d) **Taxes & Deductions:** Goods and Services Tax (GST), Income Tax, and any other applicable statutory deductions shall be recovered at source from the agency's bills as per the prevailing tax structure of the **Government of India**.
- e) **Liability & Risk Management:**

NMCG shall not be responsible for any mishap, loss, or damage to equipment or personnel, including any natural calamities occurring during the execution of work.

The agency shall bear full responsibility and take necessary precautions to mitigate risks associated with accidents, disasters, or unforeseen circumstances while conducting the survey.

Any legal, financial, or judicial liabilities arising due to such incidents shall be entirely borne by the agency.

- f) **Intellectual Property & Data Confidentiality:**

The intellectual rights/ ownership of the survey outcomes (maps, drawings, photos and videos) must be with the NMCG/ Government of India.

The survey agency shall not share, reproduce, or use these documents for any other purpose or with any third party without prior written consent from **NMCG**.

- g) The agency shall **make its own arrangements** for filtered and unfiltered water, lighting, and other necessary utilities at its own cost.
- h) Performance security will be 5% on the total contract price.

- i) **Data Capture Specifications**

1) Aerial Imagery Specifications

Coverage	As per scope
GSD	10 cm
Bands	R G B (Three band natural colour imagery)
End overlap	60% minimum
Side overlap	30% minimum

Collection condition	<p>Same as LiDAR with following additional conditions:</p> <ul style="list-style-type: none"> •Sun angle no less than 30 degrees to minimize shadow •The project site has high relief changes therefore photograph will be captured at high sun angle to avoid shadows due to these high relief formations. •Cloud free with minimal smoke, smog, fog and dust. •Minimum soil moisture and after sufficient gap after rainfall. •Every effort shall be made to avoid breaks within individual flight lines. Where necessary, the entire flight line composed of the resulting segments shall meet all of the requirements set forth in these specifications. Where breaks occur, these shall have an overlap of at least four frames to ensure a stereo <ul style="list-style-type: none"> • model of overlap or tie.
Image format	Uncompressed GeoTIFF
Imagery product	Seamless mosaic covering the project area and non-overlapping, edge-matched tiles.
Horizontal Accuracy	10cm GSD or better for the ortho-photo generated.
Radiometric Resolution	Minimum 8 bit per band in accordance with chosen image format
Horizontal Datum	The World Geodetic Datum 84 (WGS-84).
Map Projection	The coordinate system for all deliverables is the Universal Transverse Mercator (UTM).
Geoid Model	EGM2008 shall be used to derive orthometric heights from ellipsoidal data.

2) Aerial Lidar Specification

Data Density	10 points m2
Fundamental Spatial Accuracy Requirements	Fundamental spatial accuracy of the survey must conform to the following standard: .. Fundamental Horizontal Accuracy (FHA) <= ± 10 cm. 95% confidence interval .. Fundamental Vertical Accuracy (FVA) <= ± 15 cm. 95% confidence interval
Horizontal Datum	The World Geodetic Datum 84 (WGS-84)
Vertical Datum	Orthometric: All deliverables specified below as orthometric will be referenced to the Survey of India Vertical Datum (MSL) — as determined by the published heights of local survey control marks within or adjacent to the project extent. Ellipsoid: All deliverables specified below as ellipsoidal will be in terms of the WGS84 reference frame. The source of the ellipsoidal height control shall be explained in the 'Post-Survey Spatial Accuracy Report'
Geoid Model	EGM2008 shall be used to derive Orthometric heights from ellipsoidal data.

3) Aerial Video specification

Resolution	3840 x 2160 at 30 fps
Frame Rate	30 fps or better
Video Format	MP4 or MOV
Video annotation	Required chainage details and Lat Long

4) Reporting Pattern

- (i) The contractor shall submit survey reports as per specification laid down.

5) Deliverables

The activity involves conducting a detailed topographic and hydrographic survey to develop the latest planform of river courses, streams, nalas, and other water bodies, with a focus on identifying and marking drainages merging into the Ganga River. The survey shall also map permanent features such as bridges, roads, highways, habitations, marginal bunds, and vegetation along the designated stretch. Additionally, ortho-photo generation and video documentation shall be carried out to provide a comprehensive visual representation of the surveyed area.

5.1 Deliverables of the Project:

Surveyed Data & Mapping:

- High-resolution Ortho-photo Generation with 10 cm GSD or better covering the entire survey area
- Video Documentation of the surveyed stretch for reference and analysis
- Geo referenced 3d point cloud

Drainage Identification & Marking:

- Geotagging of all drainages merging into the Ganga River, including tributaries, nalas, and wastewater outlets
- Classification of drainages in small medium and large categories
- Annotation of drainages in small medium and large categories in video
- Geotagged points marking drainage confluences for further analysis

5.2 Deliverables for web application

During the Planning & System Architecture phase, the key deliverables will include UI/UX wireframes, a system design document, and a database schema to establish the foundation of the platform. These deliverables will provide a clear roadmap for system development and implementation.

For the Web Application Development phase, the main deliverables will include a fully functional web-based GIS interface. The system will feature an integrated 2D and 3D data viewer that enables users to interact with spatial data dynamically. Additionally, a role-based access management system will be developed to control user permissions and ensure data.

In the Analytics & Dashboard Development phase, the project will deliver a drain and STP classification module to categorize pollution sources efficiently. The system will also include drainage type large, medium and small analysis functionalities, providing users with automated insights. An interactive dashboard will be integrated into the platform to visualize Ortho mosaic, and video data. Furthermore, a chainage-wise strip chart will be developed to display large, medium, and small drains, allowing stakeholders to identify pollution hotspots along the river. Additionally, a video analytics module will be integrated to analyse geo-tagged videos, assisting in the detection of discharge points and pollution sources.

During the Testing & Deployment phase, the system will undergo comprehensive testing, including

user acceptance testing (UAT), performance testing, and security testing. The project will also deliver a fully integrated API module for external data access. A government compliance report will be compiled to validate adherence to regulatory standards.

The Go-Live & Maintenance phase will ensure smooth public and researcher access to the platform. The project team will provide user training materials and documentation to support system adoption. Additionally, a continuous maintenance plan will be implemented to address post-launch bug fixes and introduce feature enhancements based on user feedback.

This GIS-based web application will serve as a highly efficient, automated spatial analytics platform for monitoring pollution sources, drainage flow, and STP efficiency along River Ganga. By leveraging automated processing techniques, the system will provide policymakers, researchers, and environmental agencies with real-time decision-making capabilities to enhance pollution mitigation efforts. The integration of a chainage-wise strip chart will further enhance the system's ability to visualize and analyse drainage impact at various locations along the river.

Additionally, the system will include video analytics capabilities to analyse geo-tagged videos, ensuring enhanced detection of pollution sources and drainage outlets. The web application will be hosted on NIC Cloud or an on-premises server provided by NMCG, ensuring secure, scalable, and government-compliant deployment for continuous and reliable access.

2. Timeline & Project Phases for web application development

Phase	Tasks	Timeline
T0 - Planning & System Architecture	Requirement Analysis, UI/UX Wireframing, Tech Stack Finalization	Week 1 - Week 2
T1 - Web Application Development	GIS Web Interface Development, 2D & 3D Visualization Integration, Database Structuring & Spatial Mapping, Role-Based Access Implementation	Week 3 - Week 6
T2 - Analytics & Dashboard Development	Drain Classification & Impact Modelling, Dashboard & Reporting Features, Chainage-Wise Strip Chart Development, Video Analytics Integration	Week 7 - Week 9
T3 - Testing & Deployment	System Testing (UAT, Performance, Security), Government Compliance Check, Cloud Deployment & Access Management, Initial Stakeholder Training	Week 10 - Week 11
T4 - Go-Live & Maintenance for one year period	User Access, Post-Launch Bug Fixes, Continuous Monitoring & Updates,	Week 12+ (Ongoing)

	Advanced Enhancements	Feature	
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4. .0 MOBILIZATION AND DEMOBILIZATION OF EQUIPMENT & PERSONNEL

Mobilization of equipment/tools & tackles and personnel at all survey locations including demobilization after completion of all types of field tests as per specifications, drawings and direction of supervising authority of NMCG. No separate payment shall be paid for mobilization and demobilization. Cost for this activity shall be built in quoted rates of different items.

TERMS OF PAYMENT

Part 1: Survey and mapping using Aerial Lidar and Photogrammetry

- 10% after signing of agreement as an advance payment or mobilization charges.
- 40% after completion of field survey and submission of raw data without final data analysis. The billing for this will be done on pro rata or monthly basis.
- 40 % after submission of ORI and georeferenced point cloud as per scope of work on pro rata basis or monthly basis .
- 10% after submission of final deliverables as per scope of work and approved by department.

Part 2: Submission of Aerial Video

- 10% after signing of agreement as an advance payment or mobilization charges.
- 80 % after submission of annotated video as per scope of work on pro rata basis or monthly basis.
- 10% after submission of final deliverables as per scope of work and approved by department.

Part 3: Payment terms for Web application

- Milestone 1 - T0 (Month 1): Requirement Analysis, UI/UX Design, Dashboard Wireframes Ready - 20% of total value for BoQ line item No.- 3 upon successful approval of UI/UX design and wireframes
- Milestone 2 - T1 (Month 2): Core Development, Dashboard, and User Onboarding Module Completed - 40% of total project value for BoQ line item No.- 3 upon successful completion and internal review
- Milestone 3 - T2 (Month 3, Week 9-10): Final Testing, Dashboard Review & User Onboarding Flow Testing - 20% of total project value for BoQ line item No.- 3 upon successful completion of testing

- Milestone 4 - T3 (Month 3, Week 11-12): Go-Live, Dashboard Launch & User Onboarding Rollout - 20% of total project value for BoQ line item No.- 3 upon successful go-live and user acceptance
- Milestone 5 - Post Go-Live (Ongoing): Maintenance, Bug Fixes, Dashboard Enhancements & Feature Updates for one year period - monthly billing of BoQ line item No.- 4

Duties, taxes, levies, etc.

The Financial Proposal shall take into account all expenses and tax liabilities including GST. Further, all payments shall be subject to deduction of taxes at source as per Applicable Laws.

Timeline for Web application development and Aerial Survey

Timeline for Web application development:

- T0 (Month 1): Requirement Analysis, UI/UX Design, Dashboard Wireframes Ready
- T1 (Month 2): Core Development, Dashboard, and User Onboarding Module Completed
- T2 (Month 3, Week 9-10): Final Testing, Dashboard Review & User Onboarding Flow Testing
- T3 (Month 3, Week 11-12): Go-Live, Dashboard Launch & User Onboarding Rollout
- Post Go-Live (Ongoing): Maintenance, Bug Fixes, Dashboard Enhancements & Feature Updates

Aerial Survey Timeline (T0 - T3) with Weather Buffer:

- T0 (Month 1): Survey Planning, Flight Path Approval, Equipment Calibration
- T1 (Month 2): Aerial Survey Completed (~4 Days + Weather Buffer), Data processing, Terrain Mapping, Initial QC, Final Reports, Client Review & Submission