

दिल्ली विकास प्राधिकरण (DELHI DEVELOPMENT AUTHORITY) मास्टर प्लान मॉनिटरिंग और समीक्षा तथा एन.सी.आर. (Master Plan Monitoring & Review & NCR), तेरह मंजिल, विकास मीनार, इंद्रप्रस्थ एस्टेट, नई दिल्ली—110002 (13th Floor, Vikas Minar, Indra Prastha Estate, New Delhi-110002

File No.: F.18(17)/2019-MP/D-30

Minutes of the Meeting

विषयः Minutes of the pre-bid meeting and the First meeting of Bid Evaluation Committee held on 16.12.2019.

संदर्भः Meeting Notice No. F.18(17)/2019/MP/D-527 dated 13.12.2019.

Meeting Proceedings

Pre-bid meeting and the First meeting of the Bid evaluation committee were held on 16/12/2019 (Monday) at 11:00 am under the chairmanship of Commissioner (Plg.), DDA. List of participants is enclosed as **Annexure-A.** The Pre-bid meeting began by welcoming the delegates from various organizations and members of the bid evaluation committee, followed by a presentation by MPMR & NCR unit. The presentation informed the participants about:

- The queries submitted by respective firms/ organizations in reference to the Terms of Reference Aircraft/UAV (Drone) captured LiDAR /ortho image-based GIS mapping & Land Use Survey Agency for MPD 2041.
- Comments and observations from Legal wing, DDA.
- Comments and observations from Finance wing, DDA.

Representative from IIT Roorkee was also present in the meeting for their observation and comments.

The submitted queries on the ToR floated on DDA website dt. 09/11/2019 and their clarifications discussed in the pre-bid meeting were further put forward before the Bid Evaluation Committee for its consideration. Detailed list of queries along with the Bid Evaluation Committee's decision is enclosed as **Annexure-B**.

The revised RFP will be uploaded on DDA website shortly for inviting proposals, both technical and financial, after receiving further comments and observations, if any, from Legal & Finance wing of DDA.

Sd/-

(अनिमेष कुमार सिंह)

दिनांक: 24/01/2020

सहायक निदेशक (योजना), एम.पी.एम.आर.

प्रतिलिपि :-

- PS to VC, DDA for information of the latter.
- Commissioner (Plg.) DDA
- Deputy Chief Accounts Officer (P.E.)
- Director (Plg.) MPMR & Project
- Director (Plg.) MPMR & NCR
- Director (Plg.) GIS
- Director System for uploading on DDA website
- Representative of I.I.T. Roorkee
- Dr. Kamal Jain, Professor, Department of Civil Engineering, IIT Roorkee.

प्रतिलिपि :-

- Respective firm/ organization through DDA website.

Annexure-A²⁵⁶/ट दिल्ली विकास प्राधिकरण

दिनांक : 16/12/2019

(DELHI DEVELOPMENT AUTHORITY)

मास्टर प्लान मॉनिटरिंग और समीक्षा तथा एन.सी.आर. (Master Plan Monitoring & Review & NCR),

तेरह मंजिल, विकास मीनार, इंद्रप्रस्थ एस्टेट, नई दिल्ली—110002

(13th Floor, Vikas Minar, Indra Prastha Estate, New Delhi-110002

File No.F.18(17)/2019/MP

विषय :

ATTENDANCE SHEET

First Meeting of Bid-evaluation Committee RFP for drone mapping in Delhi For

preparation of MPD-2041 & Pre- Bid Meeting.

N	ame	Designation and Department Name	Phone Number	Email ID	Signature
0	commissioner (Plannin	g), DDA		(In chair)	
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	Participants :-				11.11.10.10
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Signature Name Designation and **Email ID** Phone Department Name Number Rajesh Singh 21 Vil as Kulkami Develop) 999911125 rajesh Quap noy wide a Bula 9650084735 Vilas B. map my Erdia aux M AMP 22 9958393123 rishyasmafanji-din. DIRBCTOR (PIG) 9650779357 Rishy kuma 23 SUDHIR KR-KATU 24 Kamal Jam 11T Roorkee 9760026284 Kjasnfie ilto Rymeilcom 25 Air Colg) Part alla 25 agra gnail-ou AUCA ARYA 1831158576 26 Planning Assillant 3439097775 Nishi Singh ar nielieugh 19 8 MPMR &NCR 27 KARAMDEEP Asst Direpus Karramseepgakhar Egmail Com 7599080546 MPMRUMT 28 AD (MPMR) 9990978678 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51

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File No.F.18(17)/2019/MP

दिनांक : 16/12/2019

ATTENDANCE SHEET

বিষ্য : <u>First Meeting of Bid-evaluation Committee for ToR UAV (Drone) captured ortho image based GIS mapping & Land Use Survey Agency for MPD-2041.</u>

0.	Name	Designation and Department Name	Phone Number	Email ID	Signature
	Commissioner (Planning	(In chair)			
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8	Animesh	ADCPG) MPMR	9990978678	animesh.dda@gnicil.co	
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Annexure-B

1. Firm/ Organisation: DWI Consulting Pvt Ltd.

Reference	Content of ToR	Clarification sought	Decision
Kelerence	Release of this RFP Deadline for submission Pre-bid meeting Deadline for Proposal submission Opening of Technical Bid Opening of Financial Bid	Please provide specific dates.	The RFP shall be released after incorporating suggestions of finance wing, legal wing and the observations received in the pre-bid meeting which are duly considered by the Bid Evaluation Committee. The revised RFP will include all the dates for technical and financial proposal.
	5. The GIS ready map by LSA shall be able to fit into the existing digitized GIS basemap of Delhi (prepared on satellite imagery of June 2018	Please confirm whether the GIS base map available with DDA has: 1. Floor level details? 2. Use premise details? 1. What is the format of GIS data available with	As per ToR.
2. Scope of Work, Component A, Pt. 5 & 6.	vintage) at the scale of 1: 4000 and resolution 50 cm as provided by Survey of India (SoI) to DDA. 6. The existing digitized GIS basemap of Delhi by SoI will also include digitized layout plans of various schemes of DDA which are currently being undertaken by RSI.	DDA? 2. What is the coverage of GIS data available with DDA? 3. Are there any areas of NCTD left out in the base map and GIS database? If yes, please provide the list of areas. Details may be shared later.	As per ToR.
2. Scope of Work, Component	All necessary permissions from to fly Aircraft/UAV from DGCA/MoDaccess to aerial survey including co-ordination with Delhi ATC/NPNT Compliance/ Digital Sky of DGCA etc shall be undertaken by LSA. DDA can only facilitate in initiating the permission process through a request letter, follow up of the same is	Delhi, being the nation's capital, have many sensitive establishments including the Cantonment. Mere facilitating the permission process will not help in achieving the project objectives. DDA should take responsibility, apart from facilitation, of getting the required flying permissions. Please confirm. The Consultant will do their due diligence	
A, Pt. 10	In case of institutions or where more than one building form a part of a cluster or compound, e.g. residential colony, district centers, hospital	by following up the relevant authorities. The level of details of Land Use information to be collected is inconsistent. Large complexes (or institutions) may have multiple lad uses such as residential, commercial, school, office, institutions	As per ToR.
2. Scope of Work, Component B, Pt. 2 Note (b)	compounds, schools, etc. the overarching land use shall be assigned to all floors. Floor-wise detailing of uses shall not be done for such sites. Names of such institutions, district centers, hospitals, etc. shall be duly recorded.	etc. Putting a single overreaching land use will be not be able to identify actual use. At other places the level of detail asked is very high e.g on a plotted development even a floor may be divided into shops and residential units	As per ToR.

2. Scope of Work, Component B, Pt. 15	LSA shall also co-ordinate with the ULB's for integrating property data (tax collection) under facilitation by DDA into the common GIS data base.	The scope of Land Use Survey is very different from scope of Property Tax. The time frame proposed for the project appears unrealistic for the scale, loading such unrelated tasks will only complicate and cause delays further. Who would take responsibility of correctness of property tax data? What if there are inconsistencies between land use and property tax? Would the LSA report to multiple clients (DDA & respective ULB)? Request to remove this from the scope.	Property data in this case is land-use of property/ uses of floors and information required as per the format provided by DDA in association with IIT Roorkee who will be supporting DDA as Technical GIS advisor as Master Consultant.
Documents Comprising the BID, Envelop 2, Pt. 13	LSA should have minimum 30 GIS / RS experts on company payroll	Number of experts is not a measurement of successful project completion. The Consultant suggest this clause be removed.	As per ToR.
4. Documents Comprising the BID, Envelop 2, Pt. 14	LSA should submit UAOP from DGCA if proposed survey is to be undertaken using UAV	According to DGCA guidelines, Section 7, UAOP is not required for Nano and Micro RPA operating below 200 feet agl. This clause may be deleted.	As per DGCA guidelines.
5. Evaluation and Qualificatio n Criteria, Marking /	LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a maximum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same >= 500 sq. km to < = 1000 sq. km. = 5		Modified as: LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan
Evaluation Criteria, Pt. 3 5. Evaluation	marks >=1001 sq. km to < = 1500 sq. km. = 10 marks LSA should have experience of physical survey/land use survey/household survey		layers for the same. >= 500 sq. km to < = 1000 sq. km. = 5 marks >1000 sq. km = 10 marks Modified as: LSA should have experience of physical survey/land use
and Qualificatio n Criteria, Marking /	covering a minimum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state	The criteria of 500 sq. km. in a single project is restrictive and may be relaxed.	survey/household survey in urban area covering a minimum geographical area of 500 -sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government
Evaluation Criteria, Pt. 4	Government organization of India. >= 500 sq. km to < = 1500 sq. km. = 5 marks	>=25 sq. km. to <=50 sq. km = 5 marks >=51 sq. km. to <=100 sq. km. = 10 marks	Organization/ PSU in India for any -central /state Government organization of India. >= 500 sq. km to <= 1000 sq. km. = 5 marks

	>=1001 sq. km to < = 1500 sq. km. = 10		>1000 sq. km = 10 marks
	marks		
	LSA must have surveyed minimum of 5 lacs		Modified as:
	properties as on bidding date for Central Govt.		LSA must have surveyed minimum of 1 lac properties
5.	of India/ any State Govt. Organization/ PSU in		as on bidding date for Central Govt. of India/ any State
Evaluation	India for any central /state Govt. organization of		Govt. Organization/ PSU in India for any central /state
and	India during the last 10 years		Govt. organization of India during the last 10 years
Qualificatio	Or		Or
n Criteria,	Carried out panoramic image capture properties		Carried out panoramic image capture properties in town
Marking/	in town of 5 lac population for the purpose of	The criteria of a town of 5 lacs population will be	of 5 lac population for the purpose of AMRUT GIS
Evaluation	AMRUT GIS layers	equivalent of less than 1 lac properties. The	layers
Criteria, Pt.	>5 lacs <8 lacs - 5 marks	alternative criteria should be at least equivalent on	>1 lacs to < 1.6 lacs - 5 marks
7	>8 lacs 10 marks	scale.	>= 1.6 lacs - 10 marks
			Modified as:
			• Time of Completion of Work – 60 weeks
		For execution of scope of work, the 52 weeks	The time taken for taking permissions for
9. Timelines	Submission of final database along with entire	timeline as defined in the ToR for Delhi is	drone/UAV survey shall be maximum 3 weeks, after
and	data and maps, supported by a detailed report =	unrealistic. The consultant suggests to increase it to	which respective timelines & deliverables shall be
Deliverables	ED+52 weeks	minimum 80 weeks. Please confirm.	applicable.

2. Firm/ Organisation: Geokno India Private Limited

Reference	Content of ToR	Clarification sought	Decision
		Since Master Plan is also one of the solutions of	
		GIS, All the LSA will not be having this experience	
		Hence, we request you to kindly consider the area	
4.		based development plan creation or any city	
Documents		mapping experience.	
Comprising		We request you to kindly amend the following	
the BID,		change:	Modified as:
Envelop 2,	The LSA should be in the field of GIS based	The LSA should be in the field of GIS based master	The LSA should be in the field of GIS based urban
Pt. 6	master planning since past 5 years	planning since past 3 years	projects since past 5 years
	LSA should have experience of physical		
	survey/land use survey/household survey		Modified as:
	covering a minimum geographical area of 500 sq.		LSA should have experience of physical survey/land use
5.	km. in India from a single project for Central		survey/household survey in urban area covering a
Evaluation	Govt. of India/ any State Government	As per the given marking criteria, we understand	minimum geographical area of 500 sq. km. in India in
and	Organization/ PSU in India for any central /state	that 5 marks for \geq =500 sq. km to \leq =1500 sq. km	cumulative (maximum 7 projects in last 5 yrs.) for
Qualificatio	Government organization of India.	experience of physical survey/ landuse	Central Govt. of India/ any State Government
n Criteria,	>= 500 sq. km to < = 1500 sq. km. = 5	survey/household survey But again it is mentioned	Organization/ PSU in India for any central /state
Marking /	marks	that 10 marks for $>=1001$ sq. km to $<=1500$ sq.	Government organization of India.
Evlauation	>=1001 sq. km to < = 1500 sq. km. = 10	km. survey experience We understand this is a	>= 500 sq. km to < = 1000 sq. km. = 5 marks
criteria Pt. 4	marks	typographical error. Kindly amend the same	>1000 sq. km = 10 marks

	 Release of this RFP Deadline for submission Pre-bid meeting Deadline for Proposal submission Opening of Technical Bid Opening of Financial Bid 	Please provide specific dates	The RFP shall be released after incorporating suggestions of finance wing, legal wing and the observations received in the pre-bid meeting which are duly considered by the Bid Evaluation Committee. The revised RFP will include all the dates for technical and financial proposal.
2. Scope of	5. The GIS ready map by LSA shall be able to fit	Please elaborate the format of existing digitized GIS	inianciai proposai.
Work,	into the existing digitized GIS basemap of Delhi	basemap of Delhi. Will DDA will supply the	
Component	(prepared on satellite imagery of June 2018	existing digitized GIS basemap along with satellite	
A, Pt. 5.	vintage) at the scale of 1: 4000 and resolution 50	imagery used for this purpose. Kindly confirm.	As per ToR.
	cm as provided by Survey of India (SoI) to DDA	Please confirm whether the GIS base map available	
		with DDA has: 1. Floor level details? 2. Use	
2. Scope of	6. The existing digitized GIS basemap of Delhi	premise details?	As per ToR.
Work,	by SoI will also include digitized layout plans of		
Component	various schemes of DDA which are currently	What is the coverage of GIS data available with	A T.D.
A, Pt. 6.	being undertaken by RSI	DDA? The level of details of Land Use information to be	As per ToR.
	In case of institutions or where more than one	collected is inconsistent. Large complexes (or	
	building form a part of a cluster or compound,	institutions) may have multiple lad uses such as	
	e.g. residential colony, district centers, hospital	residential, commercial, school, office, institutions	
2. Scope of	compounds, schools, etc. the overarching land	etc. Putting a single over-reaching land use will be	
Work,	use shall be assigned to all floors. Floor-wise	not be able to identify actual use. At other places	
Component	detailing of uses shall not be done for such sites.	the level of detail asked is very high e.g on a plotted	
B, Pt. 2 Note	Names of such institutions, district centers,	development even a floor may be divided into shops	
(b)	hospitals, etc. shall be duly recorded.	and residential units	As per ToR.
		The scope of Land Use survey is very different from scope of Property Tax. The time frame proposed for the project appears unrealistic for the scale, loading such unrelated tasks will only complicate and cause delays further. Who would take responsibility of correctness of property tax	Property data in this case is land-use of property/ uses of
2. Scope of	LSA shall also co-ordinate with the ULB's for	data? What if there are inconsistencies between	floors and information required as per the format
Work,	integrating property data (tax collection) under	land use and property tax? Would the LSA report	provided by DDA in association with IIT Roorkee who
Component	facilitation by DDA into the common GIS data	to multiple clients (DDA & respective ULB)?	will be supporting DDA as Technical GIS advisor as
B, Pt. 15	base.	Request to remove this from the scope.	Master Consultant.
	All necessary permissions from to fly Aircraft/UAV from DGCA/MoD access to aerial survey including co-ordination with Delhi ATC/ NPNT Compliance/ Digital Sky of DGCA etc shall be undertaken by LSA. DDA can only facilitate in initiating the permission process through a request letter, follow up of the same is	We understand that a number of Delhi city areas (like LBZ, IGI, etc) comes under high security classification category. Such areas may be prohibited for flying by MoD and other security agencies. As per past project experience with DGCA and MoD for aerial survey permissions (Aircraft and UAV's), minimum 2-3 months are	
2. Scope of	the core responsibility of LSA. UAV's/ Aircraft	required to obtain aerial survey permit in case of	
Work,	shall comply to all DGCA/ MoD norms including	Indian aircraft/crew and 6-8 months are required in	
Component	area permission and Security Vetting of data after	case of foreign aircraft/crew.	
A, Pt. 10	data capture. Required UAOP/UIN/NSOP permit		As per ToR.

	etc as applicable must be submitted. All such permissions obtained be submitted to DDA for its record before start of the work. LSA will indemnify DDA against any regulatory violations.	Hence, this timeline for obtaining permissions needs to be considered. For areas where flying is not permitted, deliverables using high resolution satellite imagery be accepted.	
2. Scope of Work, Component A, Pt. 3	The GIS database is to be prepared with mutually registered layers generated from Aircraft/UAV Imagery/LiDAR data, cadastral maps, satellite image, field survey inputs, existing land use, proposed land use etc	The tender envisages use of UAV/Drones for capturing the data. Flying of UAV/Drones falls under the purview of DGCA. Currently as per regulations issued by DGCA, UAV/Drones are required to be NPNT compliant. Currently only 2 two Drone manufacturing companies have become NPNT compliant (Refer Article: https://timesofindia.indiatimes.c om/business/india-business/afirst-two-bengaluru-firms-getdgca-nod-fordrones/articleshow/69886644.c ms and specifically the comment in article by DGCA official that "Only these can be legally used in India".) – Hence, the tender may be severely constrained by the limited number of legally available drones in India. Additionally, as there is no clarity on these aspects in the tender, this loopholes in the tender might be used by vendors to use illegal drones which may cause regulatory issues for the Principal, i.e., The Delhi Development Authority (DDA), and jeopardise the project wasting Government time and resources. Ministry of Defence as required by Annexure XI of DGCA regulations lies with the department or with the vendors. Due to lack of this clarity, this issue may also cause regulatory issues for Govt of Haryana and jeopardise the project wasting Government time and resources. Besides regulatory issues of UAV, it is noted that UAV based surveys are recommended if the area is 10 sq km to 20 sq km. For larger areas, UAV survey becomes inefficient as per day data capture is limited. Airborne (aircraft) data capture has very clear regulations and hence there is no regulatory risk to the government. A large number of projects are being done following this regulatory framework. An additional benefit of using aircraft is that data will be captured much faster (100 to 200 sq km in one day) than use of UAV's alone (5 to 10 sq km in one day). As the area to be covered is	Modified as: The GIS database is to be prepared with mutually registered layers generated from Aircraft/UAV Imagery/LiDAR data, cadastral maps, (integration not required), satellite image, field survey inputs, existing land use, proposed land use, etc. (if data available within time-frame) Thematic content of the GIS database is described below but not limited to: Parcel boundaries Land use (existing) Drainage Surface Water Bodies and canals Road & Rail (existing) Transportation Nodes Health facility (existing) Education facility (existing) Sewage infrastructure (as per availability) Sewage infrastructure (as per availability) Ground water prospect areas (as per availability) Hazard zones (Flood and earthquake) (as per availability) Administrative boundaries (Municipal corporations/wards etc) Urban sprawl
	UAV/ Drone Technology	approximately 1007.47 sq km, hence this aircraft-	As per ToR.

		based survey is the optimum technology for data	
		capture which would take around 10 to 15 days	
		while a UAV might take around 70 to 150 days	
		based on the number of drones.	
		Hence ,its advised to remove UAV/Drone	
		technology from RFP.	
		One of the advantages of Aerial LiDAR survey	
		technology over the UAV/ High resolution satellite	
		imagery based photogrammetry technology is	
		minimum number of Ground control point	
		requirments.	
		Hence, necessity to have the DGPS control points	
	Formulation of GIS based master plan for	for every 5 sqkm may be waived off. The required	
	AMRUT cities- Design and Standards No. of	results will be achieved with minimal number of	
	GCPs/ At least one GCP for every 5 sq	control points.	As per ToR.
			Modified as:
			• Time of Completion of Work – 60 weeks
		For execution of scope of work, the 52 weeks	The time taken for taking permissions for
9. Timelines	Submission of final database along with entire	timeline as defined in the ToR for Delhi is	drone/UAV survey shall be maximum 3 weeks, after
and	data and maps, supported by a detailed report =	unrealistic. The consultant suggests to increase it to	which respective timelines & deliverables shall be
Deliverables	ED+52 weeks	minimum 80 weeks. Please confirm.	applicable.

3. Firm/ Organisation: Excel Geomatics Pvt. Ltd.

Reference	Content of ToR	Clarification sought	Decision
3. Eligibility of LSA, 3.1.1	Consortium Allowed of not more than two partners	Consortium Allowed of not more than Three partners	As per ToR.
4. Documents Comprising the BID, Envelop 2, Pt.	LSA shall be registered in India under Companies Act 1956 and must be operational since last 10 years	LSA shall be registered in India under Companies Act 1956 and must be operational since last 7 years	As per ToR.
4. Documents Comprising the BID, Envelop 2, Pt.	LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a maximum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same	LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a maximum geographical area of 100 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization/ Prominent Private Limited Company in India and preparation of GIS based map of master plan layers for the same.	Modified as: LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan

4. Documents Comprising the BID, Envelop 2, Pt.	LSA should have experience of physical survey/landuse survey/household survey covering a minimum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India	LSA should have experience of physical survey/landuse survey/household survey covering a minimum geographical area of 100 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India/ Prominent Private Limited Company of India	LSA should have experience of physical survey/land use survey/household survey in urban area covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India.
4. Documents Comprising the BID, Envelop 2, Pt.	LSA must have experience in Providing GIS Land-use mapping and Door to door household survey using Android mobile application for towns having population more than 5 lacs as per census 2011 for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Panoramic Imagery survey of door to door from moving vehicle for generating AMRUT layers in town with population more than 5 lacs	LSA must have experience in Providing GIS Landuse mapping and Door to door household survey using Android mobile application for towns having population more than 2 lacs as per census 2011 for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization/ Prominent private Limited Company of India during the last 5 years Or Panoramic Imagery survey of door to door from moving vehicle for generating AMRUT layers in town with population more than 2 lacs	As per ToR.
4. Documents Comprising the BID, Envelop 2, Pt.	LSA must have surveyed minimum of 5 lacs properties as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out panoramic image capture properties in town of 5 lac population for the purpose of AMRUT GIS layers	LSA must have surveyed minimum of 1 lacs properties as on bidding date for Central Govt. of India/ any State Govt. Organization in India for any central /state Govt. organization// Prominent private Limited Company of India during the last 5 years Or Carried out panoramic image capture properties in town of 2 lac population for the purpose of AMRUT GIS layers	Modified as: LSA must have surveyed minimum of 1 lakh properties in urban area as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out panoramic image capture properties in urban area of 5 lac population for the purpose of AMRUT GIS layers.
5. Evaluation and Qualification Criteria, Marking / Evaluation Criteria, Pt. 3	LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a maximum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same >= 500 sq. km to <= 1000 sq. km. = 5 marks >=1001 sq. km to <= 1500 sq. km. = 10 marks	LSA should have experience of acquiring and processing of Aerial(Fixed/rotary wing Aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a minimum geographical area of 100 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same. >= 100 sq. km to < = 500 sq. km. = 5 marks >=501 sq. km to < = 1500 sq. km. = 10 marks	Modified as: LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any central/state Government organization of India and preparation of GIS based map of master plan layers for the same. >= 500 sq. km to <= 1000 sq. km. = 5 marks >1000 sq. km = 10 marks

5. Evaluation and Qualification Criteria, Marking / Evaluation Criteria, Pt. 4	LSA should have experience of physical survey/land use survey/household survey covering a minimum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India. >= 500 sq. km to < = 1500 sq. km. = 5 marks >= 1001 sq. km to < = 1500 sq. km. = 10 marks	LSA should have experience of physical survey/landuse survey/household survey covering a minimum geographical area of 100 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India. >= 100 sq. km to < = 500 sq. km. = 5 marks >=501 sq. km to < = 1500 sq. km. = 10 marks	Modified as: LSA should have experience of physical survey/land use survey/household survey in urban area covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any -central /state Government organization of India. >= 500 sq. km to <= 1000 sq. km. = 5 marks >1000 sq. km = 10 marks
5. Evaluation and Qualification Criteria, Marking/ Evaluation Criteria, Pt. 6	LSA must have experience in Providing GIS Land-use mapping and Door to door household survey using Android mobile application for towns having population more than 5 lacs as per census 2011 for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years. Or Panoramic Imagery survey of door to door from moving vehicle for generating AMRUT layers in town with population more than 5 lacs	LSA must have experience in Providing GIS Landuse mapping and Door to door household survey using Android mobile application for towns having population more than 2 lacs as per census 2011 for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization/ Prominent private Limited Company of India during the last 5 years.	As per ToR.
5. Evaluation and Qualification Criteria, Marking/ Evaluation Criteria, Pt. 7	LSA must have surveyed minimum of 5 lacs properties as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out panoramic image capture properties in town of 5 lac population for the purpose of AMRUT GIS layers >5 lacs <8 lacs - 5 marks >8 lacs - 10 marks	LSA must have surveyed minimum of 1 lacs properties as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 5 years Or Carried out panoramic image capture properties in town of 2 lac population for the purpose of AMRUT GIS layers =>1 lacs <5 lacs - 5 marks >5 lacs - 10 mark	Modified as: LSA must have surveyed minimum of 1 lac properties as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out panoramic image capture properties in town of 5 lac population for the purpose of AMRUT GIS layers >1 lacs to < 1.6 lacs - 5 marks >= 1.6 lacs - 10 marks
5. Evaluation and Qualification Criteria, Marking/ Evaluation Criteria, Pt. 9	Cumulative Turnover of LSA during the last 3 financial years = >5 crore to < 15 crore = 5 marks >= 15 crore to < 20 crore = 7 marks More than 20 crore = 10 marks	Cumulative Turnover of LSA during the last 3 financial years = > Upto 5 crore = 5 marks >= 5 crore to < 20 crore = 7 marks More than 20 crore = 10 marks	Modified as: Cumulative Turnover of LSA during the last 3 financial years =>5 crore to < 15 crore = 5 marks >= 15 crore to <= 20 crore = 7 marks More than 20 crore = 10 marks

4. Firm/ Organisation: DDF Consultants

Reference	Content of ToR	Clarification sought	Decision
2. Scope of Work, Component A, Pt. 1	To prepare a GIS ready map for geographic asset identification and mapping with a special emphasis on built profile, existing infrastructure and utilities, as built infrastructure	In case of existing infrastructure and utilities, what is the extent specific to water supply, sewerage and drainage network, if only trunk level network taken to be in consideration or detailing at household level. Also_x0009_please_x0009_clarify_x0009_digitize d_x0009_maps_x0009_either provided to the consultant or consultant is responsible to collect.	As per ToR.
2. Scope of Work, Component A, Pt. 2	In case Aircraft/UAV image acquisition is not permitted by government, then the base map shall be created using HRSI Images and DGPS/ ETS / vehicle mounted mobile scanners etc.	As per the requirement of point 2., this part must be_x0009_split_x0009_into_x0009_two_x0009_pa rts_x0009_first_x0009_is_x0009_capturing_x0009_/ procurement_x0009_of_x0009_imagery_x0009_for _x0009_base_x0009_map preparation, as Aircraft/UAV imagery has abundance of specification need or mosaicking. In case of HRSI imagery, either cient is responsible to procure the image or consultant, other side for digitization of LULC and Built Up area, who is responsible.	As per ToR.
2. Scope of Work, Component A, Pt. 10	All necessary permissions from to fly Aircraft/UAV fromDGCA/MoDaccess to aerial survey including co-ordination with Delhi ATC/NPNT Compliance/ Digital Sky of DGCA etcshall be undertaken by LSA. DDA can only facilitate in initiating the permission process through a request letter, followup of the same is the core responsibility of LSA. UAV's/Aircraft shall comply to all DGCA/MoD norms including area permission and Security Vetting of data after data capture. Required UAOP/UIN/NSOP permit etc as applicable must be submitted. 0All such permissions obtained be submitted to DDA for its record before start of the work. LSA will indemnify DDA against any regulatory violations.	In case of permissions for fly Aircraft/UAV, from government is the crucial part, and time taken process which can further effect the project deadline, for the same Plug-and-Play model must be initiate by client for effectiveness_x0009_in project with holistic approach.	As per ToR.

2. Scope of Work,	accuracy and reliability of the data collected. The database structure and the app shall be approved	assigning the project to the bidder, unique application will be generated as per the joint	
Component	by the DDA before commencement of the field	requirements which further help in the	As man ToD
B, Pt. 6	Survey.	Progress of the project	As per ToR.
2 6	TOA I II I II I		Property data in this case is land-use of property/ uses of
2. Scope of	LSA shall also co-ordinate with the ULB's for		floors and information required as per the format
Work,	integrating property data (tax collection) under		provided by DDA in association with IIT Roorkee who
Component	facilitation by ODA into the common GIS data	At what extend the property tax data to be included	will be supporting DDA as Technical GIS advisor as
B, Pt. 15	base.	in GIS data prepared at 1:500 scale.	Master Consultant.
	collected on application for built up structure, but in	1 1	
	to be done on hard copyprints or online application b		
Point feature	to be done on hard copyprints of online application of	As per ToP	
		As per ToR.	
	tioned that the Master Plan area is divided into 13 zo		
1 11 11	the work on groundverification and manning to numb		
please divide the work on groundverification and mapping to number of consultants to enhance the quality and to reduce the time span because completing such exercise in 56 weeks by one consultants a difficult task.			

5. Firm/ Organisation: Pioneer Foundation Engineers Pvt. Ltd.

Reference	Content of ToR	Clarification sought	Decision
5. Evaluation and Qualification Criteria, Marking and Evaluation Criteris, Pt. 1	Evaluation and Qualification Criteria: LSA's ISO certification ISO 9001:2015 - 2 Marks ISO 27001:2013 -5 marks	LSA's ISO certification ISO 9001:2015 and CMMi3 - 5 Marks ISO 27001:2013 –5 marks	Modified as: ISO Certification: ISO 9001:2015 & CMMi3- 5 marks ISO 27001:2013 - 5 marks
5. Evaluation and Qualification Criteria, Marking / Evaluation Criteria, Pt. 2	LSA should be registered and operational in India in the field of GIS since last 5 years submission 5 years = 2 Marks > 5 years -10 Years = 5 Marks > 10 years = 10 Marks	LSA should be registered and operational in India in the field of GIS since last 5 years submission 10 years = 2 Marks > 10 years -20 Years = 5 Marks >20 years = 10Marks	As per ToR.

5. Evaluation and Qualification Criteria, Marking / Evaluation	LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a maximum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same >= 500 sq. km to < = 1000 sq. km. = 5 marks >=1001 sq. km to < = 1500 sq. km. =	LSA should have experience of aerial/field data collection area of 200 sq. km. in India cummulative for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same >= 200 sq. km to < = 500 sq. km. = 5 marks <	Modified as: LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same. >= 500 sq. km to < = 1000 sq. km. = 5 marks
Criteria, Pt. 3	10 marks	500 sq. km. = 10 marks	>1000 sq. km = 10 marks
5. Evaluation and Qualification Criteria, Marking / Evaluation Criteria, Pt. 4	LSA should have experience of physical survey/land use survey/household survey covering a minimum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India. >= 500 sq. km to < = 1500 sq. km. = 5 marks >= 1001 sq. km to < = 1500 sq. km. = 10 marks	Lead Bidder should have experience of physical survey/landuse survey/household/ property survey/ field data collection covering a minimum geographical area of 200 sq. km. in India cumulative for Central Govt. Of India/ any State Government Organization/ PSU in India for any central/state Government organization of India. >= 200 sq. km to < = 500 sq. km. = 5 marks < 500 sq. km. = 10 marks	Modified as: LSA should have experience of physical survey/land use survey/household survey in urban area covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any -central /state Government organization of India. >= 500 sq. km to <= 1000 sq. km. = 5 marks >10 marks
5. Evaluation and Qualification Criteria, Marking / Evaluation Criteria, Pt. 5	LSA should have completed minimum one project of GIS Base/land use mapping of worth Rs. 50 lacs for Central Govt. of India/any State Government Organization/ PSU in India for any central /state Government organization of India 1 project = 5 marks 2- 3 Projects = 10 mark	LSA should have completed minimum one project of GIS Base/land use mapping/ Drone survey of worth Rs. 25 lacs for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India 1 project = 5 marks 2- 3 Projects = 10 marks	As per ToR.

	LSA must have experience in Providing GIS		
	Landuse mapping and Door to door		
	household survey using Android mobile		
	application for towns having population		
	more than 5 lacs as per census 2011 for		
	Central Govt. of India/ any State Govt.	LSA must have experience in Providing GIS	
	Organization/ PSU in India for any central	Landuse mapping and Door to door household	
	/state Govt. organization of India during the	survey using Android mobile application for atleast	
	last 10 years	5 ULBs for Central Govt. of India/ any State Govt.	
		Organization/ PSU in India for any central /state	
	Or	Govt. organization of India during the last 10 years	
	Panoramic Imagery survey of door to door	Or	
5. Evaluation	from moving vehicle for generating		
and Qualification	AMRUT layers in town with population	Panoramic Imagery survey of door to door from	
Criteria,	more than 5 lacs	moving vehicle for generating AMRUT layers in	
Marking and		town with population more than 5 lacs	
Evaluation	Upto 5 projects –5 marks More than 5		
Criteria, Pt. 6	projects –10 marks	5-10 projects –5 marks >10 projects –10 marks	As per ToR.
	LSA must have surveyed minimum of 5 lacs		Modified as:
	properties as on bidding date for Central		LSA must have surveyed minimum of 1 lac properties
	Govt. of India/ any State Govt. Organization/		as on bidding date for Central Govt. of India/ any State
	PSU in India for any central /state Govt.		Govt. Organization/ PSU in India for any central /state
	organization of India during the last 10 years	LSA must have surveyed minimum of 2 lacs	Govt. organization of India during the last 10 years
	Or	properties as on bidding date for Central Govt. of	Or
5. Evaluation	Carried out panoramic image capture	India/ any State Govt. Organization/ PSU in India	Carried out panoramic image capture properties in town
and Qualification	properties in town of 5 lac population for the	for any central /state Govt. organization of India	of 5 lac population for the purpose of AMRUT GIS
Criteria, Marking	purpose of AMRUT GIS layers	during the last 10 years	layers
/ Evaluation	>5 lacs <8 lacs - 5 marks		>1 lacs to < 1.6 lacs - 5 marks
Criteria, Pt. 7	>8 lacs 10 marks	>1 lacs <2 lacs = 10 marks >2 lacs = 20 marks	>= 1.6 lacs - 10 marks
		Financial criteria - Cumulative Turnover of Lead	Modified as:
5. Evaluation	Financial criteria - Cumulative Turnover of	Bidder during the last 3 financial years	Financial criteria - Cumulative Turnover of LSA during
and Qualification	LSA during the last 3 financial years		the last 3 financial years
Criteria, Marking	=>5 crore to < 15 crore = 5 marks	=>10 crore to <20 crore $=5$ marks	=>5 crore to < 15 crore = 5 marks
/ Evaluation	>= 15 crore to < 20 crore = 7 marks	>= 20 crore to < 40 crore = 7 marks	>= 15 crore to =< 20 crore = 7 marks
Criteria, Pt. 9	More than 20 crore = 10 marks	More than 50 crore = 10 marks	More than 20 crore = 10 marks
.	LSA having work experience in Delhi / NCR		
5. Evaluation	project from government / PSUs		
and Qualification	1 Project = 1 mark		,
Criteria, Pt. 10	Additional 4 projects $(4 X 1) = 4 \text{ marks}$	Request to remove the location specific criteria	As per ToR.

		Kindly give requirements/specifications for the	
		Application. Hardwares like Server along with	
		storage will also be required for hosting the large	
5. Evaluation		amount data captured using Drones. Please clarify if	
and Qualification	Pricing format: 3. Web based application	Hardware is already available or not. If LSA needs	
Criteria, Pricing	development with unlimited users and	to supply the same, specifications are requested for	
Format, Pt. 3	portability with hand held devices	the Hardware as well.	As per ToR.

6. Firm/ Organisation: IIC Technologies Ltd.

Reference	Content of ToR	Clarification sought	Decision
Addendum No-1, Pg. 1, Schedule of events	Schedule for submission of the Proposal regarding Terms of Reference (ToR)_Aircraft/ UAV (Drone) captured LiDAR/ Otho image based GIS mapping & Land Use Survey Agency for MPD 2041.	The term ToR used in the document is confusing. We understand that this is the full RFP requiring technocommercial bid for evaluation and award of contract.	Modified as: • Term RFP after incorporating comments from legal and FM.
Addendum No-1 , Pg 1, Schedule of events	Deadline for Proposal submission Mode: Online only at dirplgmpmr@dda. or.in ddplgmpmr@dda.o rg.in	Generally online submission of tenders is done through e-procurement portal.	Modified as: Tenders will be submitted on Government website of E-procurement. NIC at URL http://eprocure.gov.in/eprocure/app.
	The GIS database is to be prepared with mutually registered layers generated from Aircraft/UAV Imagery/LiDAR data, cadastral maps, satellite image, field survey inputs, existing land use, proposed land use etc. Thematic content of the GIS database is described below but not limited to: Parcel boundaries Land use (existing and proposed) Drainage Surface Water Bodies and canals Road & Rail (existing and proposed) Transportation Nodes Health facility (existing and proposed)		Modified as: The GIS database is to be prepared with mutually registered layers generated from Aircraft/UAV Imagery/LiDAR data, cadastral maps, (integration not required), satellite image, field survey inputs, existing land use, proposed land use, etc. (if data available within time-frame) Thematic content of the GIS database is described below but not limited to: • Parcel boundaries • Land use (existing) • Drainage • Surface Water Bodies and canals • Road & Rail (existing) • Transportation Nodes
	 Education facility (existing and proposed) Water Supply infrastructure (proposedas per availability) 	Kindly elaborate on the following	 Health facility (existing) Education facility (existing) Water Supply infrastructure (as per availability) Sewage infrastructure (as per availability)
2. Scope of	 Sewage infrastructure (as per availability) Solid Waste Management infrastructure 	Role of cadastral maps in preparation of project GIS database Input data (format, scale, quantity of cadastral	Solid Waste Management infrastructure (as per availability) Ground water prospect areas (as per availability)
Work, Component A, Pt. 3	(as per availability)Ground water prospect areas (as per availability)	maps) DDA will provide to LSA 3. Processing to be performed by LSA with cadastral maps, and deliverables expected.	Hazard zones (Flood and earthquake) (as per availability) Administrative boundaries (Municipal)

	Hazard zones (Flood and earthquake) (as per availability) Administrative boundaries (Municipal corporations/wards etc)		corporations/wards etc) • Urban sprawl
	• Urban sprawl		
2. Scope of Work, Component A,	Modified as: Thematic content of the GIS database is described below but not limited to: Parcel boundaries Land use (existing and proposed) Drainage Surface Water Bodies and canals Road & Rail (existing and proposed) Transportation Nodes Health facility (existing and proposed) Education facility (existing and proposed) Water Supply infrastructure (proposedas per availability) Sewage infrastructure (as per availability) Solid Waste Management infrastructure (as per availability) Ground water prospect areas (as per availability) Hazard zones (Flood and earthquake) (as per availability) Administrative boundaries (Municipal corporations/wards etc)	We assume DDA will provide data for the following thematic content: • Sewage infrastructure • Ground water prospect area • Hazard zones (Flood and earthquake) • Administrativ e boundaries (Municipal corporation/	Modified as: The GIS database is to be prepared with mutually registered layers generated from Aircraft/UAV Imagery/LiDAR data, cadastral maps, (integration not required), satellite image, field survey inputs, existing land use, proposed land use, etc. (if data available within time-frame) Thematic content of the GIS database is described below but not limited to: Parcel boundaries Land use (existing) Drainage Surface Water Bodies and canals Road & Rail (existing) Transportation Nodes Health facility (existing) Education facility (existing) Sewage infrastructure (as per availability) Solid Waste Management infrastructure (as per availability) Ground water prospect areas (as per availability) Hazard zones (Flood and earthquake) (as per availability) Administrative boundaries (Municipal corporations/wards etc)
Pt. 3	• Urban sprawl LSA shall undertake extensive field survey/ physical survey to collect attributes for each of the identified built structure/building in respective Planning Zones through a compatible app based technology (android or any at par application) for updation of	It is suggested that field survey is limited to landuse class verification on cluster basis only for the purpose of master planning activity.	• Urban sprawl
2. Scope of Work,	building records/site information on the	Survey of each built structure / building in Delhi	
· ·	common GIS platform. Database structure shall be finalized at the start of the project for	will have major impact on project timeline and cost which we believe is not required for master	
Component B, Pt. 1	uniformity.	planning activity	As per ToR.
11.1	umiormity.	praining activity	As per roix.

It is suggested that on-ground observation is limited	
to landuse class verification on cluster basis only	
The on-ground observation shall include for for the purpose of master planning activity.	
each built structure/buildings/ utilities, the	
landuse survey/predominant use on each Survey of each built structure / building in Delhi	
floor (in terms of approximate built area), will have major impact on project timeline and cost	
activity type/use premise information, which we believe is not required for master	
number of floors, ownership information to planning activity.	
the extent possible and other site related	
information required to build an existing Built area, activity type/use, premise information,	
2. Scope of landuse layer for Delhi. Different land use on number of floors, ownership information, flat	
Work, each floor/ separate numbering of each unit number may be excluded from scope of work as we	
Component B, (e.g. flat number) shall be marked as separate believe this data is not relevant for purpose of	
Pt. 2 unit. master planning As per ToR.	
In case of institutions or where more than	
one building form a part of a cluster or	
compound, e.g. residential colony, district	
centers, hospital compounds, schools, etc. the	
overarching land use shall be assigned to all	
2. Scope of floors. Floorwise detailing of uses shall not	
Work, be done for such sites. Names of such Landuse verification on overarching / cluster basis	
Component B, institutions, district centers, hospitals, etc. is fine. RFP document needs to be made consistent	
Pt. 2 Note (b) shall be duly recorded. with this principle for field verification. As per ToR.	
Data captured on the ground will be used to	
update attribute tables in the existing GIS	
database available with DDA on a daily	
basis. This will also include updating the	
map in terms of number of buildings and	
final assignment of URN numbers. Survey	
data integration with GIS database shall	
ensure the total count of survey building	
records as equal to the count of GIS Building Landuse verification on overarching / cluster basis	
footprint layer. Any modifications/chang es is fine. RFP document needs to be made consistent	
2. Scope of required in the URNs based on ground with this principle for field verification.	
Work, survey will be reflected and finalized after	
Component B, the ground surveys and verification processes We suggest that any references to individual	
Pt. 10 have been completed. property survey/URN no are excluded from RFP As per ToR.	
Property data i	n this case is land-use of property/ uses of
	rmation required as per the format
	DA in association with IIT Roorkee who
	ing DDA as Technical GIS advisor as
Pt. 15 GIS data base. property tax is excluded from scope of current RFP. Master Consult	

4. Documents Comprising the BID, Envelop 1, Pt. 1	DD/Banker's Cheque of Rs. 10,00,000- as BID Fee or MSME exemption (certificate/UAM to be shared)	Kindly confirm correct BID fee.	Modified as: Online Submission of Rs. 20,000/- as BID Fee or MSME exemption (certificate/ UAM to be shared)
4. Documents Comprising the BID, Envelop 1, Pt. 2	EMD of Rs.10,00,000 /- MSME exemption (certificate/UAM to be shared)	EMD may please be accepted in the form of Bank guarantee. Kindly confirm.	Modified as: EMD of Rs. 51,00,000 /-(Lump Sum) MSME exemption (certificate/ UAM to be shared)
4. Documents Comprising the BID, Envelop 2, Pt. 6	The LSA should be in the field of GIS based master planning since past 5 years	Master planning is not part of scope of work. We request this item is dropped from eligibility requirement	Modified as: The LSA should be in the field of GIS based urban projects since past 5 years
4. Documents Comprising the BID, Envelop 2, Pt. 8	Cumulative turnover of the LSA for the last three financial years ending should be equal to or greater than Rs. 5 Crore.	Considering the potential and quantum of work for this project, We request you to kindly raise the cumulative turnover of the LSA for the last three financial years to 25 Crore minimum.	As per ToR.
5. Evaluation and Qualification Criteria, Marking / Evaluation Criteria, Pt. 10		We understand that purchase orders from government/ PSU's in Delhi/ NCR will suffice.	As per ToR.
5. Evaluation and Qualification Criteria, Pricing Format.	Quantity column in Pricing Format	Kindly mention the Quantities in the column.	Modified as: Pricing format @ per unit for the applicable zones
Data Acceptance	e procedure, We request DDA to elaborate on GIS size, timeline	base map acceptance procedure, verification sample	As per ToR.
Sub-contracting by LSA		As per ToR.	
5. Evaluation and Qualificatio n Criteria, Pricing Format, Pt. T	raining and Hand Hold support (batch of 20)	We assume that the Training infrastructure, Hardware, Software, Tea, Lunch etc. shall be provided by DDA Kindly confirm.	Modified as per decision

4			
	Data acquisition through aerial survey/ possible		Modified as:
	means as mentioned in the RFP $ED + 3$ weeks		• Time of Completion of Work – 60 weeks
			The time taken for taking permissions for
9. Timelines	Submission of final database along with entire		drone/UAV survey shall be maximum 3 weeks, after
and	data and maps, supported by a detailed report		which respective timelines & deliverables shall be
Deliverables	ED + 52 weeks	Project timelines and Payment Terms	applicable.

7. Firm/ Organisation: GIS Consortium India Private Limited

Reference	Content of ToR	Clarification sought	Decision
	DDA intends to undertake a detailed		
	Aircraft/UAV (Drone) captured LiDAR/Ortho	RFP does not specify LiDAR data	Modified as:
	image based GIS mapping of existing land use	specifications. Deliverables related to Lidar and	A master sheet/ template will be provided by DDA. (IIT
Introduction	and building use in the city.	Ortho Image should also be specified.	Roorkee)
	Component A- GIS & 3D Based Ortho Model		
	for future feature extraction through High		
2. Scope of	Resolution Satellite Imagery (HRSI)/	RFP does not specify anything about 3d based	Modified as:
Work,	Aircraft/Unmanned Arial Vehicle	Ortho Model . It is requested to specify	Preparing map equivalent to 1:500 scale with 25
Component A	(UAV)(Drone) mapping.	deliverables related to 3d based Ortho Model.	cm contour Interval.
			Modified as: The GIS database is to be prepared with mutually registered layers generated from Aircraft/UAV Imagery/LiDAR data, cadastral maps, (integration not required), satellite image, field survey inputs, existing land use, proposed land use, etc. (if data available within time-frame) Thematic content of the GIS database is described below but not limited to: Parcel boundaries Land use (existing) Drainage Surface Water Bodies and canals Road & Rail (existing) Transportation Nodes
2. Scope of	Thematic content of the GIS database is	RFP does not clarify about sources and	Health facility (existing) Education facility (existing)
Work,	described below but not limited to: - Ground	specifications of thematic content. Source and	 Education facility (existing) Water Supply infrastructure (as per availability)
Component A,	water prospect areas - Hazard zones (Flood and	technical specifications for thematic content	• Water Supply infrastructure (as per availability) • Sewage infrastructure (as per availability)
Pt. 3	earthquake)	should be specified.	Solid Waste Management infrastructure (as per

			availability) • Ground water prospect areas (as per availability) • Hazard zones (Flood and earthquake) (as per availability) • Administrative boundaries (Municipal corporations/wards etc) • Urban sprawl
2. Scope of Work, Component A, Pt. 4	The scale of such a map will be 1:500 and resolution 10 cm	We assume that Aerial data (Ortho photo) requirement is 10 cm GSD. Kindly confirm.	As per ToR.
2. Scope of Work, Component A, Pt. 10	All necessary permissions from to fly Aircraft/UAV from DGCA/MoD access to aerial survey including co-ordination with Delhi ATC/NPNT Compliance / Digital Sky of DGCA etc. shall be undertaken by LSA.	Permissions will be taken by LSA but the time lapsed for taking the necessary permissions shall be excluded from project time line duration. Kindly confirm	As per ToR.
4. Documents Comprising the BID, Envelop 1, Pt. 1	DD/Banker's Cheque of Rs. 10,00,000- as BID Fee or MSME exemption (certificate/UAM to be shared)	Kindly check the bid fee amount. We believe that it is a typo error and tender document fee can't be 10 lacs. Kindly clarify	Modified as: Online Submission of Rs. 20,000/- as BID Fee or MSME exemption (certificate/ UAM to be shared)
4. Documents Comprising the BID, Envelop 2, Pt. 4	LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a maximum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same	In this point, it seems there is a typo error. We understand that you are asking for Minimum geographical area of 500 sq.km., instead of Maximum area. It is also bring to your kind notice that multi-layer GIS Base map can be used for master plan as well as for other analysis also. So we request you to kindly remove word "master Plan" from the requirement and amend the clause as: "LSA should have experience of acquiring and processing of Aerial(Fixed / rotary-wing aircraft / UAV) images establishing Ground control points network using DGPS/ETS covering a minimum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of MultiLayer GIS based map from the same"	Modified as: LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan

4. Documents Comprising the BID, Envelop 2, Pt. 6	The LSA should be in the field of GIS based master planning since past 5 years	This bid involves all activities related to geodetic data acquisition and processing, filed survey and doesn't need any experience related to GIS based Master planning (It may kindly be noted that provided data will be used for master planning of Delhi but you need GIS companies having past experience in GIS data acquisition, processing, field survey and web-based GIS solutions). We request this condition to be replaced with "LSA should be in the field of GIS based base-map preparation, Landuse/Landcover survey in past 5 years". Kindly confirm	Modified as: The LSA should be in the field of GIS based urban projects since past 5 years
4. Documents Comprising the BID, Envelop 2, Pt. 12	LSA must have surveyed minimum of 5 lacs properties as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out panoramic image capture properties in town of 5 lacs population for the purpose of AMRUT GIS layers	This condition specifies that 5 lacs properties should have been surveyed by the bidder in last 10 years whereas the same condition doesn't seems to be applicable on bidder who has captured panoramic image in town of 5 lacs population. It would be biased if any bidder is permitted without surveying 5 lacs properties. we request you to amend the clause as: "LSA must have surveyed minimum of 5 lacs properties as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out survey for 5 Lacs properties using panoramic image capture for the purpose of AMRUT GIS layers or for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years"	Modified as: LSA must have surveyed minimum of 1 lakh properties in urban area as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out panoramic image capture properties in urban area of 5 lac population for the purpose of AMRUT GIS layers.
4. Documents Comprising the BID, Envelop 2, Pt. 14, 15 & 16	14. LSA should submit UAOP from DGCA if proposed survey is to be undertaken using UAV 15. LSA should have a UAV with DGCA issued UIN and NPNT certificate if proposed survey is to be undertaken using UAV 16. LSA aircraft operator should have NSOP from DGCA for use of aircraft	We understand that if bidder is proposing survey using UAV, then only DGCA certificates mentioned at sl. No. 14 and 15 shall be provided by the bidder and is not applicable for bidder proposing survey through Aircraft and similarly if bidder is proposing survey using Aircraft, then DGCA certificate shall be provided only for point no. 16. Kindly confirm	Modified as: As per DGCA guidelines.

5. Evaluation and Qualification Criteria, Marking / Evaluation Criteria, Pt. 3	LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a maximum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same >= 500 sq. km to <= 1000 sq. km. = 5 marks >= 1001 sq. km to <= 1500 sq. km. = 10 marks	It is also bring to your kind notice that multi-layer GIS Base map can be used for master plan as well as for other analysis also. So we request you to kindly remove word "master Plan" from the requirement and amend the clause as: "LSA should have experience of acquiring and processing of Aerial(Fixed / rotary-wing aircraft / UAV) images establishing Ground control points network using DGPS / ETS covering a minimum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization / PSU in India for any central / state Government organization of India and preparation of MultiLayer GIS based map from the same"	Modified as: LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same. >= 500 sq. km to <= 1000 sq. km. = 5 marks >1000 sq. km = 10 marks
5. Evaluation and Qualification Criteria, Marking / Evaluation Criteria, Pt. 4	LSA should have experience of physical survey/land use survey/household survey covering a minimum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India. >= 500 sq. km to < = 1500 sq. km. = 5 marks >=1001 sq. km to < = 1500 sq. km. = 10 marks	We understand that there is no upper limit of area coverage and it will be read as ">=1001 sq. km = 10 marks". Kindly confirm.	Modified as: LSA should have experience of physical survey/land use survey/household survey in urban area covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any -central /state Government organization of India. >= 500 sq. km to <= 1000 sq. km. = 5 marks >100 sq. km = 10 marks
5. Evaluation and Qualification Criteria, Marking / Evaluation Criteria, Pt. 7	LSA must have surveyed minimum of 5 lacs properties as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out panoramic image capture properties in town of 5 lac population for the purpose of AMRUT GIS layers >5 lacs <8 lacs - 5 marks >8 lacs - 10 marks	This condition specifies that 5 lacs properties should have been surveyed by the bidder in last 10 years whereas the same condition doesn't seems to be applicable on bidder who has captured panoramic image in town of 5 lacs population. It would be biased if any bidder is permitted without surveying 5 lacs properties. we request you to amend the clause as: "LSA must have surveyed minimum of 5 lacs properties as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out survey for 5 Lacs properties using panoramic image capture for the purpose of AMRUT GIS layers or for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years"	Modified as: LSA must have surveyed minimum of 1 lac properties as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out panoramic image capture properties in town of 5 lac population for the purpose of AMRUT GIS layers >1 lacs to < 1.6 lacs - 5 marks >= 1.6 lacs - 10 marks

5. Evaluation and Qualification Criteria, Pricing Format, Pt. 4 Training and Hand Hold support (batch of 20) Training and Hand Hold support (batch of 20) Delhi being capital of India, is highly secured and sensitive. With our past experience we can say that it will take around 2-3 months for getting permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions to FLY from MOD. We permissions. (ED + 1 week) P. Timelines and Deliverables, Component A, Pt. 2 Data acquisition through aerial survey/ possible date of receipt of permissions from DGCA/ getting permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions from DGCA/ modified as: Data acquisition through aerial survey/ possible means are mornioned in the PEP. (ED) 3 weeks) MOD/SOI kindly confirm Delhi being capital of India, is highly secured and sensitive. With our past experience we can say that it will take around 2-3 months for getting permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions from DGCA/ modified as: Data acquisition through aerial survey/ possible means are mornioned in the PEP. (ED) 8 weeks)	5. Evaluation and Qualification Criteria, Pricing Format, Pt. 1	Aircraft/UAV (Drone) survey mapping & GIS Base Map Updation	Department should take separate pricing for Aircraft / UAV(Drone) survey and Mapping & GIS Base map updation. It is also recommended that department should also take indicative prices for acquisition of HRSI. e.g. 1. Aircraft / UAV (Drone) Survey 2. Mapping & GIS base map updation 3. HRSI with ETS / DGPS / vehicle mounted mobile scanner (these are indicative prices and shall not be considered in financials during evaluation of financial bids).	Modified as: • Aircraft survey mapping & GIS Base Map Updation Per sq.km • UAV (Drone) survey mapping & GIS Base Map Updation Per sq.km • Satellite imagery procurement & GIS Base Map Updation Per sq.km
Criteria, Pricing Format, Pt. 4 Training and Hand Hold support (batch of 20) Delhi being capital of India, is highly secured and sensitive. With our past experience we can say that it will take around 2-3 months for getting permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions from DGCA/MOD/SOI. kindly confirm 9. Timelines and Deliverables, Component A, Pt. 2 Pt. 2 Roles and Responsibilities of DDA and LSA & Working on UAV survey plan and get necessary permissions. (ED + 1 week) Delhi being capital of India, is highly secured and sensitive. With our past experience we can say that it will take around 2-3 months for getting permissions to FLY from MOD. We request project start date to be considered and sensitive. With our past experience we can say that it will take around 2-3 months for getting permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions from DGCA/ Data acquisition through aerial survey/ possible means				
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Component A, Pt. 2 Morking on UAV survey plan and get necessary permissions. (ED + 1 week) date of receipt of permissions from DGCA/ MOD/SOI. kindly confirm As per ToR. Delhi being capital of India, is highly secured and sensitive. With our past experience we can say that it will take around 2-3 months for getting permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions from DGCA/ Data acquisition through aerial survey/ possible means				
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9. Timelines and Deliverables, Component A, Data acquisition through aerial survey/ possible Say that it will take around 2-3 months for getting permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions from DGCA/ Data acquisition through aerial survey/ possible means				
9. Timelines and Deliverables, Component A, Data acquisition through aerial survey/ possible Data acquisition through aerial survey/ possible getting permissions to FLY from MOD. We request project start date to be considered from date of receipt of permissions from DGCA/Data acquisition through aerial survey/ possible means				
Deliverables, Component A, Data acquisition through aerial survey/ possible request project start date to be considered from date of receipt of permissions from DGCA/ Data acquisition through aerial survey/ possible means	O Time 1'm			
Component A, Data acquisition through aerial survey/ possible date of receipt of permissions from DGCA/ Data acquisition through aerial survey/ possible means				Modified on
	· ·	Data acquisition through against surrous/ = ===!hla		
	Pt. 4	means as mentioned in the RFP. (ED + 3 weeks)	MOD/SOI. kindly confirm	as mentioned in the RFP. (ED +8 weeks)

8. Firm/ Organisation: CE Info Systems Pvt. Ltd.

Reference	Content of ToR	Clarification sought	Decision
		What is the expectation from utility	
		mapping. Please clarify if it is	
2. Scope of	To prepare a GIS ready map for geographic	expected to do underground or surface	
Work,	asset identification and mapping with a special	surveys or scope is limited to	Modified as:
Component A,	emphasis on built profile, existing infrastructure	superimposition of existing digital	A master sheet/ template will be provided by DDA. (IIT
Pt. 1	and utilities, as built infrastructure.	data available with department.	Roorkee)

Modified as: The GIS database is to be prepared with mutually registered generated from Aircraft/UAV Imagery/LiDAR data, cadastu maps, (integration not required), satellite image, field survinputs, existing land use, proposed land use, etc. (if data ava within time-frame) Thematic content of the GIS database is described below limited to: Parcel boundaries Land use (existing) Drainage Surface Water Bodies and canals Road & Rail (existing) Transportation Nodes Health facility (existing) Water Supply infrastructure (as per availability) Sewage infrastructure (as per availability) Sewage infrastructure (as per availability) Sewage infrastructure (as per availability) Work, Aircraft/UAV Imagery/LiDAR data, cadastral We understand latest satellite imagery Hazard zones (Flood and earthquake) (as per availability)
generated from Aircraft/UAV Imagery/LiDAR data, cadasts maps, (integration not required), satellite image, field survinputs, existing land use, proposed land use, etc. (if data ave within time-frame) Thematic content of the GIS database is described below limited to: Parcel boundaries Land use (existing) Drainage Surface Water Bodies and canals Road & Rail (existing) Transportation Nodes Health facility (existing) Education facility (existing) Water Supply infrastructure (as per availability) Sewage infrastructure (as per availability) The GIS database is to be prepared with mutually registered layers generated from generated from Aircraft/UAV Imagery/LiDAR data, cadasts maps, (integration not required), satellite image, field survinputs, existing land use, etc. (if data ave within time-frame) Parcel boundaries Land use (existing) Transportation Nodes Health facility (existing) Education facility (existing) Sewage infrastructure (as per availability)
maps, (integration not required), satellite image, field survinputs, existing land use, proposed land use, etc. (if data avawithin time-frame) Thematic content of the GIS database is described below limited to: Parcel boundaries Land use (existing) Drainage Surface Water Bodies and canals Road & Rail (existing) Transportation Nodes Health facility (existing) Education facility (existing) Water Supply infrastructure (as per availability) The GIS database is to be prepared with mutually registered layers generated from mutually registered layers generated from mature inputs, existing land use, proposed land use, etc. (if data avawithin time-frame) Thematic content of the GIS database is described below limited to: Parcel boundaries Land use (existing) Transportation Nodes Health facility (existing) Sewage infrastructure (as per availability) Solid Waste Management infrastructure (as per availability)
inputs, existing land use, proposed land use, etc. (if data avawithin time-frame) Thematic content of the GIS database is described below limited to: Parcel boundaries Land use (existing) Drainage Surface Water Bodies and canals Road & Rail (existing) Transportation Nodes Health facility (existing) Education facility (existing) Water Supply infrastructure (as per availability) Sewage infrastructure (as per availability) Sewage infrastructure (as per availability) Solid Waste Management infrastructure (as per availability) Ground water prospect areas (as per availability)
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limited to:
• Parcel boundaries • Land use (existing) • Drainage • Surface Water Bodies and canals • Road & Rail (existing) • Transportation Nodes • Health facility (existing) • Education facility (existing) • Water Supply infrastructure (as per availability) • Sewage infrastructure (as per availability) • Sewage infrastructure (as per availability) • Solid Waste Management infrastructure (as per availability) • Ground water prospect areas (as per availability)
• Land use (existing) • Drainage • Surface Water Bodies and canals • Surface Water Bodies and canals • Road & Rail (existing) • Transportation Nodes • Health facility (existing) • Education facility (existing) • Water Supply infrastructure (as per availability) • Sewage infrastructure (as per availability) • Sewage infrastructure (as per availability) • Solid Waste Management infrastructure (as per availability) • Ground water prospect areas (as per availability)
• Drainage • Surface Water Bodies and canals • Road & Rail (existing) • Transportation Nodes • Health facility (existing) • Education facility (existing) • Water Supply infrastructure (as per availability) • Sewage infrastructure (as per availability) • Sewage infrastructure (as per availability) • Solid Waste Management infrastructure (as per availability) • Ground water prospect areas (as per availability)
• Drainage • Surface Water Bodies and canals • Road & Rail (existing) • Transportation Nodes • Health facility (existing) • Education facility (existing) • Water Supply infrastructure (as per availability) • Sewage infrastructure (as per availability) • Sewage infrastructure (as per availability) • Solid Waste Management infrastructure (as per availability) • Ground water prospect areas (as per availability)
• Road & Rail (existing) • Transportation Nodes • Health facility (existing) • Education facility (existing) • Water Supply infrastructure (as per availability) • Sewage infrastructure (as per availability) • Sewage infrastructure (as per availability) • Solid Waste Management infrastructure (as per availability) • Ground water prospect areas (as per availability)
• Transportation Nodes • Health facility (existing) • Education facility (existing) • Water Supply infrastructure (as per availability) • Sewage infrastructure (as per availability) • The GIS database is to be prepared with 2. Scope of mutually registered layers generated from • Ground water prospect areas (as per availability)
• Transportation Nodes • Health facility (existing) • Education facility (existing) • Water Supply infrastructure (as per availability) • Sewage infrastructure (as per availability) • The GIS database is to be prepared with 2. Scope of mutually registered layers generated from • Ground water prospect areas (as per availability)
• Health facility (existing) • Education facility (existing) • Water Supply infrastructure (as per availability) • Sewage infrastructure (as per availability) The GIS database is to be prepared with 2. Scope of mutually registered layers generated from • Ground water prospect areas (as per availability)
• Education facility (existing) • Water Supply infrastructure (as per availability) • Sewage infrastructure (as per availability) The GIS database is to be prepared with 2. Scope of mutually registered layers generated from • Ground water prospect areas (as per availability)
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• Sewage infrastructure (as per availability) The GIS database is to be prepared with 2. Scope of mutually registered layers generated from • Sewage infrastructure (as per availability) • Solid Waste Management infrastructure (as per availability) • Ground water prospect areas (as per availability)
The GIS database is to be prepared with 2. Scope of mutually registered layers generated from Ground water prospect areas (as per availability)
2. Scope of mutually registered layers generated from • Ground water prospect areas (as per availability)
T WORK THE AIRCRAIGHA VIMAGERVILLIAR GAIA CAGASTRAL TIME INGERSTAND LATEST SAFELLITE IMAGERY LIGHT APPRICATE AFRICANCIA AND ARTHURIZED (AS DER AVAILABLE)
Component A, maps, satellite image, field survey inputs, & scanned cadastral maps will be *Administrative boundaries (Municipal corporations/wa
Pt. 3 existing land use, proposed land use etc. provided by department.
Modified as:
The GIS database is to be prepared with mutually registered
generated from Aircraft/UAV Imagery/LiDAR data, cadasti
maps, (integration not required), satellite image, field surv
inputs, existing land use, proposed land use, etc. (if data ava
within time-frame)
Thematic content of the GIS database is described below
limited to:
• Parcel boundaries
• Land use (existing)
• Drainage
Surface Water Bodies and canals
• Road & Rail (existing)
• Transportation Nodes
• Health facility (existing)
• Education facility (existing)
• Water Supply infrastructure (as per availability)
• Sewage infrastructure (as per availability)
Thematic content of the GIS database is • Solid Waste Management infrastructure (as per available)
2. Scope of described below but not limited to: · Water Please clarify what all attributes needs • Ground water prospect areas (as per availability)
Work, Supply infrastructure (proposed) · Sewage to be collected from survey for water • Hazard zones (Flood and earthquake) (as per availabili
Component A, infrastructure · Solid Waste Management supply, sewerage and solid waste • Administrative boundaries (Municipal corporations/wa
Pt. 3 infrastructure. management infrastructure • Urban sprawl

2. Scope of Work, Component A, Pt. 8.	In addition to the 160 layers mentioned at para 3 above, each built structure/building will be assigned a centroid/point feature and will be marked with a unique reference number (URN) and a digital inventory of buildings will be prepared. The URN will be differentiated on the basis of the existing Planning Zones of DDA. For example, buildings in Planning Zone A will be marked as A-0000001, A-0000002, and so on	We understand that the URN is to be given building structure wise not individual property wise. Please confirm	Modified as: A master sheet/ template will be provided by DDA. (IIT Roorkee)
		1. Please clarify if internal measurements have to be taken for each floor or property and for which type of property?	
		2. We understand each flat or property is to be numbered, please confirm	
		3. For ownership information, only name of the owner is to be collected or any documentary proof. The information shared by occupant will	
	The on-ground observation shall include for each built structure/buildings/utilities, the land use survey/predominant use on each floor (in terms of approximate built area), activity	be considered valid? In case of documentary proof the occupant may not have owner details. Please suggest	
2. Scope of	type/use premise information, number of floors, ownership information to the extent possible and other site related information required to build an existing land use layer for Delhi. Different	4. Will this needs to be done only for commercial entities excluding residential?	
Work, Component B, Pt. 2.	land use on each floor/ separate numbering of each unit (e.g. flat number)shall be marked as separate unit.	5. In case of residential complexes or buildings what all information is to be captured ?	As per ToR.
2. Scope of Work, Component B,	Mobile applications on an appropriate platform shall be developed and utilized for the surveys. All such survey instruments shall be connected to a server to submit data on a real me basis on a	Please clarify whether it will be vendor's cloud server or department's. Incase of department, please suggest how quality check of the data captured will be done, will department share the data for further processing to	
Pt. 6.	cloud server.	vendor	As per ToR.

	12. Once a survey block has been completed, the		
	same shall be sent to the respective Zonal		
	Officer(s) of DDA for verification. Any		
	changes/anomalies pointed out by the concerned		
	officer will have to be verified and checked on		
	the ground, if required through joint site visits	In benefit of timely completion of	
			M. P.C. L.
2 6	with such DDA officers.	project, please specify the verification	Modified as:
2. Scope of	13. A survey block will be considered complete	duration. Is it that both verification	The time taken for taking permissions for aircraft/ drone/ UAV
Work,	only after the concerned Zonal Officer has	and approval will be done & given	survey shall be maximum 3 weeks, after the date of award of
Component B,	provided due approval. Anyhow it will not take	within 7 days of data submission?	contract and its acceptance as mentioned above, after which
Pt. 12 & 13.	more than 7 working days.	Please clarify	respective timelines & deliverables shall be applicable.
	Web-based application shall be developed for		
	monitoring, updating, change management,		
	administration, viewing the records and GIS	Please detail the scope of web	
	layers, query-based reports generations etc.	application. Is it limited to viewing,	
	Application shall be developed with public and	querying and visualizing or editing	
2. Scope of	admin interface with user management option	tools, reporting & feedback modules	
Work,	for the department. The Database should follow	are also required. Where the	Modified as:
Component B,	National Spatial Data Infrastructure (NSDI)	application will be hosted? Please	A master sheet/ template will be provided by DDA. (IIT
Pt. 14.	open source architecture.	specify	Roorkee)
5. Evaluation			
and			
Qualification			
Criteria,	Door to door field surveyPer Unit* Unit*		Modified as:
Pricing	shall be per point/line/polygon. Separate land		2a) Residential/ Commercial data
Format.	use/bifurcation shall be treated as one unit.	Please explain in detail	2b) Public utility
		We understand that the objective of	
		the project is to Prepare GIS Data for	
		Master Plan, hence we request	
		department to modify this condition to	
		encourage active participation from	
		GIS mapping companies who	
		specializes in GIS data creation.	
		Modified clause as below:	
4. Documents		intodiffed clause as below.	
Comprising the		"The LSA should be in the field of	Modified as:
BID, Envelop	The LSA should be in the field of GIS based	GIS based data creation or mapping	The LSA should be in the field of GIS based urban projects since
2, Pt. 6	master planning since past 5 years	since past 5 years"	past 5 years
2, 1 t. 0	master planning since past 3 years	In benefit of such critical project and	past 5 years
4. Documents		considering Delhi's extensive	
Comprising the	Cumulative turnover of the LSA for the last	geographical area & infrastructure, we	
BID, Envelop	three financial years ending should be equal to	suggest department to modify the	As non ToD
2, Pt. 8	or greater than Rs. 5 Crore.	clause with much higher turnover	As per ToR.

9. Firm/ Organisation: Esri India Technologies Ltd.

Reference	Content of ToR	Clarification sought	Decision
2. Scope of Work, Component B, Pt. 6	Mobile applications on an appropriate platform shall be developed and utilized for the surveys. All such survey instruments shall be connected to a server to submit data on a real time basis on a cloud server	As per the requirement, All information is submitted to a cloud server. Does the scope with respect to web based GIS & mobile system apps to be deployed on cloud environment? Please clarify?	As per ToR.
2. Scope of Work, Component B, Pt. 14.	Web-based application shall be developed for monitoring, updating, change management, administration, viewing the records and GIS layers, query-based reports generations etc. Application shall be developed with public and admin interface with user management option for the department. The Database should follow National Spatial Data Infrastructure (NSDI) open source architecture.	Please provide the technical requirement & Specification for web based GIS solution platform software? Also, Please elaborate the web based GIS application workflows, if any.	Modified as: A master sheet/ template will be provided by DDA. (IIT Roorkee)
5. Evaluation and Qualification Criteria, Pricing Format, Pt. 3	Evaluation and Qualification Criteria Web based application development with unlimited users and portability with hand held devices	Please define the number of users with their roles and concurrency that would use web & Mobile based GIS application. This will help us to size the Infrastructure (hardware & Software) of web based GIS solution. Unlimited users requirement are vague & can't define proper infrastructure sizing.	As per ToR.
5. Evaluation and Qualification Criteria, Pricing Format, Pt. 3	Same as above	Is procurement of hardware for Web based GIS solution in scope of bidder (on Premises/on cloud)? Please clarify. What are the requirements with respect to data center and disaster recovery?	As per ToR.
4. Documents Comprising the BID, Envelop 1, Pt. 1	DD/Banker's Cheque of Rs. 10,00,000- as BID Fee or MSME exemption (certificate/UAM to be shared)	Could you please confirm that the Bid fee and EMD is 10,00,000 each? or any typo in Bid Fee	Modified as: Online Submission of Rs. 20,000/- as BID Fee or MSME exemption (certificate/ UAM to be shared)

	14. Web-based application shall be		
	developed for monitoring, updating, change		
	management, administration, viewing the		
	records and GIS layers, query-based reports		
	generations etc. Application shall be		
	developed with public and admin interface		
2. Scope of	with user management option for the		
Work,	department. The Database should follow	Could you please confirm that the department has	Modified as:
Component B,	National Spatial Data Infrastructure (NSDI)	any Existing system, If yes please share the same, If	A master sheet/ template will be provided by DDA.
Pt. 14.	open source architecture.	No, how to handle the HW & SW	(IIT Roorkee)

10. Firm/ Organisation: Kambill Systems

Reference	Content of ToR	Clarification sought	Decision
	4. The scale of such a map will be 1:500 and		
	resolution 10cm.		
	5. The GIS ready map by LSA shall be able		
	to fit into the existing digitized GIS basemap		
	of Delhi (prepared on satellite imagery of		
	June 2018 vintage) at the scale of 1: 4000	It is mentioned that the scale of the map from	
	and resolution 50 cm as provided by Survey	survey should be 1:500 with a resolution of 10cm	
	of India (SoI) to DDA. 6. The existing digitized GIS basemap of	and in the next point, the ToR asked to fit the map into a scale of 1:4000 with a lower resolution as per	
	Delhi by SoI will also include digitized	map by SOI. Also asks t involve layers prepared by	
	layout plans of various schemes of DDA	RSI.	
	which are currently being undertaken by RSI.	Kindly explain the intention of the same.	
	7. LSA shall ground verify and rectify the	Timely explain the intention of the same.	
2. Scope of	existing digitized GIS basemap mentioned at	Also, it says that drone data should be included for	
Work,	para 5 and 6 above if required as per the	added consistency, as we know, major zones in	
Component A,	aerial survey undertaken through UAV for	Delhi comes under no fly zone, henceforth, it is not	
Pt. 4-7	consistency and homogeneity.	possible to have drone data for the city overall.	As per ToR.
	Details of the planning zones are given		
	below for reference. Actual boundaries of		
	zones shall be discussed and finalized with		
	DDA before the start of the database		
2. Scope of	preparation exercise. In case of any		
Work,	ambiguity, nearest physical feature shall be		
Component A,	considered as zone boundary w.r.t the		
Pt. 9.	approved & existing ZDPs.	zonal boundaries shall be clearly fixed	As per ToR.

	The on-ground observation shall include for each built structure/buildings/utilities, the landuse survey/predominant use on each floor (in terms of approximate built area), activity type/use premise information, number of floors, ownership information to the extent possible and other site related		
2. Scope of	information required to build an existing landuse layer for Delhi. Different land use on		
Work,	each floor/ separate numbering of each unit		Modified as:
Component B,	(e.g.flat number)shall be marked as separate	"other necessary information" for landuse planning	A master sheet/ template will be provided by DDA.
Pt. 2.	unit.	should be clearly elaborated	(IIT Roorkee)
	Once a survey block has been completed, the same shall be sent to the respective Zonal Officer(s) of DDA for verification. Any		
2. Scope of	changes/anomalies pointed out by the	data verification on zonal level shall be made to	
Work,	concerned officer will have to be verified and	semi-zonal level like half zone at one, as the density	
Component B,	checked on the ground, if required through	in delhi is very high, so rectifying data at zonal	
Pt. 12.	joint site visits with such DDA officers.	level can be very tedious	As per ToR.
	17. The LSA will undertake a comparative exercise to identify differences between the existing land-use plan and the proposed gross land-uses as per the respective Zonal Plans. Digitized Zonal Plans will be provided by DDA/NIUA as required for this purpose. This will be submitted to the respective Zonal Officers for verification and finalization. 18. Based on such a comparative analysis the	report creation on existing and proposed landuse	
2. Scope of	LSA will prepare a detailed report on land	difference should not be made a part of this as city	
Work,	and building use in the city along with	planning is altoghther a different process, which	
Component B,	detailed analytics covering all the major land	requires professionals. A mapping agency might not	
Pt. 17-18.	uses as per MPD.	have forte in city/regional planning.	As per ToR.

11. Firm/ Organisation: Caritas Eco Systems Pvt. Ltd.

Reference	Content of ToR	Clarification sought	Decision
DDA must ask u	nit rate for Aerial Survey (Non-Drone), UAV Sur other tasks like mapping and survey	As per ToR.	
	I the approximate number of Buildings and Floor f that number in the quoted price. Anything above	As per ToR.	

	luminous work and the Consultant will be submitting the data in regular interval, it would be required check the data back to back the data submission so that the data approval and payment is not delayed.		As per ToR.
		Please elaborate on payment plan.	Modified as per decision Modified as:
2. Scope of Work, Component A	GIS & 3D Based Ortho Model for future feature extraction through High Resolution Satellite Imagery (HRSI)/ Aircraft/Unmanned Arial Vehicle (UAV)(Drone) mapping.	The scope of work mentions GIS mapping of existing infrastructure and utilities. In our understanding any underground feature is not to be mapped. Please confirm.	The GIS database is to be prepared with mutually registered layers generated from Aircraft/UAV Imagery/LiDAR data, cadastral maps, (integration not required), satellite image, field survey inputs, existing land use, proposed land use, etc. (if data available within time-frame) Thematic content of the GIS database is described below but not limited to: Parcel boundaries Land use (existing) Drainage Surface Water Bodies and canals Road & Rail (existing) Transportation Nodes Health facility (existing) Education facility (existing) Water Supply infrastructure (as per availability) Sewage infrastructure (as per availability) Solid Waste Management infrastructure (as per availability) Ground water prospect areas (as per availability) Hazard zones (Flood and earthquake) (as per availability) Administrative boundaries (Municipal corporations/wards etc) Urban sprawl
2. Scope of Work, Component A, Pt. 2	In case Aircraft/UAV image acquisition is not permitted by government, then the base map shall be created using HRSI Images and DGPS/ ETS / vehicle mounted mobile scanners etc.	In case Aircraft/UAV image acquisition is not permitted by government, then the base map shall be created using HRSI Images and DGPS/ETS/vehicle mounted mobile scanners etc." Please mention specific requirement. Otherwise a company may quote a lower rate and do not properly pursue Drone flying permission and end us doing the mapping with satellite image only. If you wish to say that in restricted areas satellite images would be used and in other areas Drone need to be used, mention that clearly. Also in that case the scale of mapping need to be relaxed.	As per ToR.

2. Scope of Work, Component A, Pt. 3	Thematic content of the GIS database is described below but not limited to:• Parcel boundaries • Land use (existing and proposed) • Drainage • Surface Water Bodies and canals • Road & Rail (existing and proposed) • Transportation Nodes • Health facility (existing and proposed) • Education facility (existing and proposed) • Water Supply infrastructure (proposed) • Water Supply infrastructure (proposed) • Sewage infrastructure • Solid Waste Management infrastructure • Ground water prospect areas • Hazard zones (Flood and earthquake) • Administrative boundaries (Municipal corporations/wards etc) • Urban sprawl	The list of Thematic content mentions Ground water prospect areas, Hazard zones, Proposed land uses and facilities like health and Education etc. What will be the source for such mapping and will DDA provide the inputs?	Modified as: The GIS database is to be prepared with mutually registered layers generated from Aircraft/UAV Imagery/LiDAR data, cadastral maps, (integration not required), satellite image, field survey inputs, existing land use, proposed land use, etc. (if data available within time-frame) Thematic content of the GIS database is described below but not limited to: Parcel boundaries Land use (existing) Drainage Surface Water Bodies and canals Road & Rail (existing) Transportation Nodes Health facility (existing) Education facility (existing) Sewage infrastructure (as per availability) Sewage infrastructure (as per availability) Ground water prospect areas (as per availability) Hazard zones (Flood and earthquake) (as per availability) Administrative boundaries (Municipal corporations/wards etc) Urban sprawl
2. Scope of Work, Component A, Pt. 10	All necessary permissions from to fly Aircraft/UAV from DGCA/MoD access to aerial survey including co-ordination with Delhi ATC/NPNT Compliance / Digital Sky of DGCA etc. shall be undertaken by LSA.	Because of complicacies associated with Delhi, from DDA we not only expect an initial reference letter to get flying permission, but also time to time pursuance to different Central Govt. departments, if required.	As per ToR.
2. Scope of Work, Component B, Pt. 1	LSA shall undertake extensive field survey/ physical survey to collect attributes for each of the identified built structure/building in respective Planning Zones through a compatible app based technology (android or any at par application) for updation of building records/site information on the common GIS platform. Database structure shall be finalized at the start of the project for uniformity.	"To collect attributes through a compatible app based technology (android or any at par application) for updation of building records/site information on the common GIS platform." From today's discussion at pre-bid meeting, it was felt that DDA will provide this Mobile App. Please confirm.	Modified as: A master sheet/ template will be provided by DDA.

2. Scope of	The on-ground observation shall include for each built structure/buildings/utilities, the landuse survey/predominant use on each floor (in terms of approximate built area), activity type/use premise information, number of floors, ownership information to activity type/use premise information, number of floors, ownership information to the extent possible and other site related information required to build an existing landuse layer for Delhi. Different land use on	Please clarify what is the use of collection of	
Work,	each floor/ separate numbering of each unit	building or land ownership information in Master	
Component B, Pt. 1	(e.g.flat number)shall be marked as separate unit.	Planning exercise. OR DDA wants to collect ownership in case of Public and Semi-Public uses?	As per ToR.
2. Scope of Work, Component B, Pt. 3 Note (c)	Detailed premise-level surveys (including details such as type of activity) shall be conducted for all notified mixed-use streets/commercial streets as per MPD 2021.	We understood that detailed premise and floor level surveys shall be conducted for all notified mixeduse streets/commercial streets as per MPD 2021 and for other areas like residential colony, district centres marking of overarching land use will be sufficient. Please confirm	As per ToR.
4. Documents Comprising the BID, Envelop 2, Pt. 4	LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a maximum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan layers for the same	"covering a maximum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/PSU". Since the Drone technology is new and very few Indian cities have used this technology for its mapping. Moreover, its no use for DDA if an agency has flown UAV for Agriculture monitoring or forest mapping and not used it for urban studies. Therefore, we request that the area to be reduced substantially from 500 sq. km to 50 sq. km. Also, many Urban Local bodies or Development Corporations have used drone technology for localised studes, therefore we request you to allow such experiences to be counted and remove the clause "from a single project". Instead of this "Experience Web based application development" which is one of the task should be one of the criteria.	Modified as: LSA should have experience of acquiring and processing of Aerial(Fixed/rotary-wing aircraft/UAV) images establishing Ground control points network using DGPS/ETS covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India and preparation of GIS based map of master plan

4. Documents Comprising the BID, Envelop 2, Pt. 5	LSA should have experience of physical survey/landuse survey/household survey covering a minimum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India.	"experience of physical survey/landuse survey/household survey covering a minimum geographical area of 500 sq. km" We request you to reduce the criteria as mentioned in previous point because ideally these two tasks are interrelated.	LSA should have experience of physical survey/land use survey/household survey in urban area covering a minimum geographical area of 500 sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India.
4. Documents Comprising the BID, Envelop 2, Pt. 6	The LSA should be in the field of GIS based master planning since past 5 years	"The LSA should be in the field of GIS based master planning since past 5 years." Since this is GIS based survey for urban planning, hence request you to rephrase it as "The LSA should be in the field of GIS based survey and Urban planning since past 5 years".	Modified as: The LSA should be in the field of GIS based urban projects since past 5 years
4. Documents Comprising the BID, Envelop 2, Pt. 12	LSA must have surveyed minimum of 5 lacs properties as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central/state Govt. organization of India during the last 10 years Or Carried out panoramic image capture properties in town of 5 lac population for the purpose of AMRUT GIS layers	LSA must have surveyed minimum of 5 lacs properties as on bidding date. Since this is not a Property Survey project and is a GIS and Land/Building use project, therefore we request you to remove this requirement.	Modified as: LSA must have surveyed minimum of 1 lakh properties in urban area as on bidding date for Central Govt. of India/ any State Govt. Organization/ PSU in India for any central /state Govt. organization of India during the last 10 years Or Carried out panoramic image capture properties in urban area of 5 lac population for the purpose of AMRUT GIS layers.
4. Documents Comprising the BID, Envelop 2, Pt. 13	LSA should have minimum 30 GIS / RS experts on company payroll	Sine the work also involves Development of Web Based Application hence the requirement may be modified from "LSA should have minimum 30 GIS / RS experts on company payroll" to LSA should have minimum 10 GIS / RS experts and 3 Software Developer/MIS experts in company payroll	As per ToR.
4. Documents Comprising the BID, Envelop 2, Pt. 14	LSA should submit UAOP from DGCA if proposed survey is to be undertaken using UAV	UAOP from DGCA is not required for Nano and Micro UAV if flown below 200 feet agl. Hence request you to provide relaxation according to DGCA guideline for Drone survey.	Modified as: As per DGCA guidelines.
5. Evaluation and Qualification Criteria, Marking and Evaluation Criteris, Pt. 1	Evaluation and Qualification Criteria: LSA's ISO certification ISO 9001:2015 - 2 Marks ISO 27001:2013 –5 marks	About company competency. ISO Certification is not the only Criteria. Please add Govt affiliation and empanelment for survey work also as one of the criteria. Also rectify the marks attached to each of the criteria. ISO 27001:2013 alone should not fetch 5 marks	Modified as: ISO Certification: ISO 9001:2015 & CMMi3- 5 marks ISO 27001:2013 - 5 marks

12. Firm/ Organisation: Applied Geotech solutions

Reference	Content of ToR	Clarification sought	Decision
Defragmentation of project in 3 parts i.e. Drone/UAV work, GIS mapping including portal application and master planning, as it is very difficult for a single bidder to do all.			As per ToR.
3. Eligibility of LSA, 3.1.1	Consortium Allowed of not more than two partners	Consortium of 3 companies should be included in eligible criteria.	As per ToR.
9. Timelines and Deliverables	Submission of final database along with entire data and maps, supported by a detailed report = ED+52 weeks	Timeline of project should be consider from the date of the permission given by the gorvernment authorities, and should be extended to at least 75-80 weeks.	Modified as: • Time of Completion of Work – 60 weeks • The time taken for taking permissions for drone/UAV survey shall be maximum 3 weeks, after which respective timelines & deliverables shall be applicable.
4. Documents Comprising the BID, Envelop 2, Pt. 6	The LSA should be in the field of GIS based master planning since past 5 years	We have work experience of 500+ sq. Km. In Preparation of Existing Land Use Plan but not experience in master planning so can it suffice the master plan eligibility.	Modified as: The LSA should be in the field of GIS based urban projects since past 5 years
5. Evaluation and Qualification Criteria, Marking / Evaluation Criteria, Pt. 4	LSA should have experience of physical survey/land use survey/household survey covering a minimum geographical area of 500 sq. km. in India from a single project for Central Govt. of India/ any State Government Organization/ PSU in India for any central /state Government organization of India. >= 500 sq. km to < = 1500 sq. km. = 5 marks >= 1001 sq. km to < = 1500 sq. km. = 10 marks	Household survey experience should be 1 lakh instead of 5 lakh.	Modified as: LSA should have experience of physical survey/land use survey/household survey in urban area covering a minimum geographical area of 500 -sq. km. in India in cumulative (maximum 7 projects in last 5 yrs.) for Central Govt. of India/ any State Government Organization/ PSU in India for any -central /state Government organization of India. >= 500 sq. km to <= 1000 sq. km. = 5 marks >1000 sq. km = 10 marks
5. Evaluation and Qualification Criteria, Marking and Evaluation Criteris, Pt. 1	Evaluation and Qualification Criteria: LSA's ISO certification ISO 9001:2015 - 2 Marks ISO 27001:2013 -5 marks	LSA's ISO certification ISO 9001:2015 and CMMi3 - 5 Marks ISO 27001:2013 –5 marks	Modified as: ISO Certification: ISO 9001:2015 & CMMi3- 5 marks ISO 27001:2013 - 5 marks