Bid Document

Bid Details	
Bid End Date/Time	22-07-2020 14:00:00
Bid Opening Date/Time	2020-07-22 14:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	65 (Days)
Ministry/State Name	Ministry Of Home Affairs
Department Name	Central Police Organisation
Organisation Name	N/a
Office Name	Delhi Police Headquarters
Total Quantity	160
Item Category	Artifical Intelligence (AI) based Video Analytics Software
Experience Criteria	1 Year (s)
MSE Exemption for Years Of Experience	Yes
Startup Exemption for Years Of Experience	Yes
Document required from seller	Experience Criteria,Certificate (Requested in ATC),OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	Yes
Inspection Required	Yes
Inspection to be carried out by Buyers own empanelled agency	Yes
Type Of Inspection	Post Dispatch
Name of the Empanelled Inspection Agency/ Authority	Board of Officers

EMD Detail

Required	No

ePBG Detail

Advisory Bank	State Bank of India

ePBG Percentage(%)	10.00
Duration of ePBG required (Months).	39

(a). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

Beneficiary:
DCP/P&L
5, RAJPUR ROAD, DELHI - 110054
(D.k.s. Singh)

Splitting

Bid splitting not applied.

1. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of years as indicated in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

Artifical Intelligence (AI) Based Video Analytics Software (160 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
BASIC INFORMATION	**Domain**	Artifical Intelligence (AI)/ Machine Learning based Video Analytics Software	Artifical Intelligence (AI)/ Machine Learning based Video Analytics Software
	Components/Module s of AI based Video Analytics Software	9. AI Based Camera Health Monitoring	9. AI Based Camera Health Monitoring
	OEM Model / Part No	-	*
	Software Description	-	*
	Software Version	-	*

		Date of Launch of Version	-	*
SCOPE OF LICENCE	**Types of Licence**	1.Perpetual	1.Perpetual
	" Duration of Subscription (in Years) (Hint : Select '0' if not applicable)"	0	0.0 - 5.0 Or higher
	Valid Licence/ Subscription copy to be provided	YES	*
	Maximum user handling capability	10000	10000.0 - 10000.0 Or higher
	Concurrent user handling capability	1000	1000.0 - 1000.0 Or higher
	Hosting Enviroment/ Deplyment Option	1. On Site / Buyer's Premise,2. Private Cloud	1. On Site / Buyer's Premise, 2. Private Cloud
	Installation and demonstration	Yes	Yes
	If yes, then Scope of Installation	1. Installation;,2. Integration;,3. Configuration;,4.End to End Workflow Implementation;,5. User Acceptance Testing of offered modules.	1. Installation;, 2. Integration;, 3. Configuration;, 4.End to End Workflow Implementation;, 5. User Acceptance Testing of offered modules.
	The offered product have support from OEM for	1. Unlimited updation for Patches and Bug fixes within support period.,2. Unlimited upgradation of version within support period	1. Unlimited updation for Patches and Bug fixes within support period., 2. Unlimited upgradation of version within support period
	Number of Years upto which support is available from OEM for Updation (Patches and Bug fixes) within support period	3	3
	Number of Years upto which support is available from OEM for Upgradation of version within support period	3	3
	Training Options	On-Site,Virtual,Training Material	On-Site, Virtual, Training Material
	No of days Training Provided	1	1

		Supported Video File Format	1. H.264,2. H.264+,3. H.265,4. MP4,5. MJPG,6. AVI,7. MKV,8. RTSP stream,9. FLV,10. WMV,11. OGG	*
		Supported Image File Format	ANI - Animation,BMP - Bitmap,GIF - Graphics Interchange Format,ICO - Windows Icon,JPEG/JPG - Joint Photographic Experts Group,PCX - PC Paintbrush,PNG - Portable Network Graphics,PNM - Portable Anymap from the PPM Toolkit,RAS - Sun Raster,SVG - Scalable Vector Graphics,TGA - Targa,TIFF - Tagged Image File Format,WBMP - Wireless Bitmap,XBM - X Bitmap,XPM - X Pixmap	*
AI based Vehicle Number Plate Recognition System		Scope	2. NA	*
		Minimum Accuracy in Day time by the offered Product (Hint:- Select '0' if not applicable)	0	0 - 100
		Minimum Accuracy in Night time by the offered Product (Hint:- Select '0' if not applicable)	0	0 - 100
		Detection capability of Offered Product	6. NA	*
		Vehicle Number Plate Recognition Features	6. NA	1. Capable to identify the image of the detected number plate., 2. Capable to lookup the vehicle number plate from the database, 3. Capable to generate an alert based on status of the vehicle number plate in the database, 4. Capable to assign label/tag to the detected vehicle number plate live

			VIP/Offender etc, 5. Capable to generate severity of the detected vehicle number plate based on predefined rules., 6. NA
	Capability to search vehicle on the basis of	6. NA	*
AI Based Facial Recognition (FRS)	Scope FRS	2. NA	*
	Detection capability of offered product	4. NA	*
	Facial Recognition Features	7. NA	7. NA
	Capability to search faces on the basis of	3. NA	*
AI based Parking Violation System	scope	2. NA	*
	Detection capability of Offered product	3. NA	*
	Parking Violation Features	5. NA	1. Capability for user to detection time from seconds to hours. Detection time is defined and elapsed time between vehicle's first detection and the when an alarm is to be raised., 2. Capability to store and detect the number plate of the violating vehicle., 3. Capability to capture photographs of violating vehicle in form of Overview: Covering the vehicle and its surroundings., 4.Capability to capture photographs of violating vehicle in form of Close view: Showing readable number plate of the vehicle., 5. NA
	Capability for user to set/configure detection time in seconds (Detection time is defined and elapsed time between vehicle's first detection and the when an alarm is to be raised) (Hint:-Select'0' if not applicable)	0	*

	Additional Features	1. NA	*
Wrong Direction/ Wrong Way Detection	Scope of wrong direction	2. NA	*
	Wrong Way Detection features	3. NA	1. Capability to detect and store the number plate of the violating vehicle., 2. Capability to define the direction of 'wrong-way' by the user., 3. NA
Crowd Estimation	Scope of Crowd Estimation	2. NA	*
	Crowd Estimation features	4. NA	1. Capability to count in a very large area using one or multiple user-defined areas of interest, 2. Capability to allow the user to set the threshold for the number of objects that can occupy the area before it is deemed to be overcrowded., 3. Capability to present overcrowding data in terms of density (i.e. percentage) or in terms of number of objects., 4. NA
	Additional features	1. NA	*
Abandoned Object Detection	Scope of Abandoned Object Detection	2. NA	*
	Detection capability of offered Product	3. NA	1.Multiple suspicious objects in a single frame with every object having its own detection time, 2. Objects left stationary in drastic light conditions and shadows., 3. NA
	Abandoned Object Detection features	3. NA.	*
	Maximum False alert percentage per day (Hint: - Select'0' if not applicable)	0	*
	additional features	1. NA	*
Advanced Intrusion Detection	Scope of Advanced Intrusion Detection	2. NA	*

	Advanced Intrusion Detection features	3. NA	1. Capability to allow the user to define the length and orientation of the virtual fence., 2. Capability to allow the user to define the direction of intrusion., 3. NA
	additional Features	1. NA	*
Garbage Detection	Scope of Garbage Detection	2. NA	*
	Garbage Detection features	3. NA	1. Capability to generate alerts based on accumulation of garbage, 2. Capability to share a snapshot of the area along with location and time, 3. NA
	Additional Features of Garbage Detection	1. NA	*
Camera Health Monitoring	Scope of Camera Health Monitoring	1. This is an application for detecting the working status of a group of cameras and identify any anomalies in camera behavior using Artificial Intelligence and Deep Learning.	*
	Detection capability of Camera Health Monitoring	1. Camera View obstructed,2. Bright light shown to camera,3. Change in camera's view.,4. Illumination below a threshold,5. Loss of camera feed/ connectivity	*
	Camera Health Monitoring features	1. Capability to allow the user to adjust the sensitivity of detection for each camera.,2. Capability to raise alerts based on category such as View Obstruction, Camera View Change, Low Illumination, etc.	*
	Additional Features of Camera Health Monitoring	1. NA	*

Helmet Violation Detection	Scope of Helmet Violation Detection	2. NA	*
	Detection Accuracy during day time (Hint :- Select '0' if not applicable)	0	0 - 100
	Detection capability of Helmet Violation Detection	3. NA	*
	Helmet Violation Detection features	4. NA	*
Person Count	Scope of Person Count	2. NA	*
	Person Count features	3. NA	*
	Capability to show count in a graphical/ exportable data format	6. NA	*
	Additional Features of Person Count	1. NA	*
Vehicle Counting and Classification	Scope of Vehicle Counting and Classification	2. NA	*
	Vehicle Counting and Classification features	6. NA	1. Capability to classify vehicles into categories such as trucks, buses, passenger cars and motorcycles., 2. Capability to simultaneously count and classify vehicles in real time., 3. Capability to count in traffic congestions and stop-and-go situations, 4. Capability to superimpose count results on video of the same data., 5. Capability to use feature based algorithms for motion tracking., 6. NA
Generic Features	Easy Deployment and configuration	1. Capability to be structured as an app that is deployable on any camera using a camera-app matrix, providing a complete visibility of the apps and which cameras they are running on.	*
	Key UI Features	1. Event Notifications:	*

		Capable of showing results in the form of events that contain the screenshot with other metadata describing the event, such as detected objects, timestamp, camera/video. The App User Interface has a grid and list view.,2. Resource Management View: User interface provides a list of all the resources available in the system such as computing servers, edge-computing devices and cameras. The status of each of the devices, whether they are online/offline is available at all times.,3. AI Training Tool: User interface has a training tool to annotate and label images from the events to train new AI models and update the existing ones. The training tools also contain a list of all the models available in the system which can be plugged into any app easily.,4. App Camera Grid: The App User Interface has a matrix to assign, start, stop and schedule any app on any camera. The status of active and non-active apps is clearly visible with color coded information.,5. Data Analytics Dashboard: The User Interface has an analytics dashboard listing all the patterns of events from different cameras with a heatmap of number of events on an hourly basis.	
	Web based Interface	1. The App User interface has a web	*

	interface that can be accessed on any system in the local area network with login credentials. It allows multiple users to log in at the same time, and receive real-time alerts and notifications.	
Live Video Interface	1. The App User interface has the capability to allow a user to view the live video stream from any camera with overlaid information of regions, objects, people and vehicles.	*
Camera-level configuration	1. The app is capable of being uniquely configured for every individual camera stream, with parameters for camera calibration, image quality improvement, night/day settings etc.,2. The app is able to run on different cameras with different settings (e.g., different Zones for Intrusion, different lines for line crossing detection, etc.) at different hours of the day.,3. The app has a configuration page that allows a user to choose any of the available AI models to detect and classify objects within the image. The description of the models clearly specify performance and hardware requirements of each of the model.	*
Number of Camera can be configured by the offered product	100000	*
Number of Video analytics applications that can be executed simultanelously on a	20	*

		single camera by the offered product		
	Key configuration parameters	1. The app on each camera allow setting up configuration of multiple detections zones such as lines and regions that can be used to define perimeters, regions of interest.,2. The configuration user interface allow adjusting various sensitivity and confidence parameters to adjust each app's performance with respect to the physical deployment of the camera.	*	
	Filtering and Retrievel	1. Time Filtering - the app has the capability to allow the user to filter all the events through a time range with a start time and end-time,2. Attribute Filtering- the app has the capability to allow the user to filter and retreive events based on attributes of people, vehicles and other objects such as visible colors, direction of movement and time of stay,3. Location Filtering - the app has the capability to allow the user to filter events based on the physical location within the camera by regions or lines drawn or across a selection of cameras.	*	
RECOMMENDED HARDWARE REQUIREMENT PARAMETER FOR ON-PREMISE DEPLOYMENT	Servers configuration required	-	*	
	CPU required	-	*	
	Operating Systems supported	-	*	
	Storage Requirement (in GB)	-	*	

	Supported Web Browsers	-	*
	Supported Databasae	-	*
	Hyper link to Data sheet	-	*
	Any Specific, hardware component required to enhance performance and accuracy ?	-	*

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Venu Gopal H	110054,5 RAJPUR ROAD CIVIL LINES DELHI	160	30

Bid Specific Additional Terms and Conditions

1. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
2. **Nominated Inspection Agency:** On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance: Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC): NA
Post Receipt Inspection at consignee site before acceptance of stores: AS PER TECHNICAL SPECIFICATION GIVEN IN THE BID ON GEM AND REQUIREMENT OF THE SYSTEM

3. **Upload Manufacturer authorization:** Wherever Authorised Distributors are submitting the bid, Manufacturers Authorisation Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.
4. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
5. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
6. IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.
7. OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the

currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

8. Preference to Make In India products (For bids less than 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document 50%. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

9. Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

10. Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of DY. COMMISSIONER OF POLICE, PROV. AND LOGISTICS payable at DELHI. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

11. Successful Bidder can submit the Performance Security in the form of Fixed Deposit Receipt also (besides PBG which is allowed as per GeM GTC). FDR should be made out or pledged in the name of DY. COMMISSIONER OF POLICE, PROV. AND LOGISTICS, DELHI A/C (Name of the Seller). The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of Security Deposit, the FDR will be released in favour of bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Successful Bidder has to upload scanned copy of the FDR document in place of PBG and has to ensure delivery of hard copy of Original FDR to the Buyer within 15 days of award of contract.

12. The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.

13. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 3 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imberse the cost of such service / rectification to the Buyer.

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---